

Author Index 1983

- Abdallah, M.A. see Wendenbaum, S. 4877
Abdullah, A.H. see Comins, D.L. 2711
Abecassis, J. see Bloch, R. 1247
Aben, R.W.M. and Scheeren, H.W. High pressure promoted ($2 + 2$) cycloadditions of ketene acetals with carbonyl compounds, 4613
Abou-Ghribia, M. see Ketcha, D.M. 2811
Aboud-Bichara, A. see Ayanoglu, E. 1111
Abraham, R.J. and Smith, K.M. Novel proton NMR characterized structures for chlorophyll *A* and *B* aggregates in solution, 2681
Acevedo, O.L., Krawczyk, S.H. and Townsend, L.B. A novel approach towards the synthesis of the 3,4,5-trihydro-1,3-diazepin-5-ol ring structure, 4789
Acharya, K.R. see Row, T.N.G. 3263
Acharya, K.R. see Shitole, H.R. 4739
Achiwa, K. see Ikeda, K. 913, 4707
Ackroyd, J., Manro, A., Scheinmann, F., Appleton, R.A. and Bantick, J.R. Synthesis and 5-lipoxygenase inhibitory activity of 7,7-dimethyleicos-5Z, 8Z-dienoic acid, 5139
Ács, T. see Szántay, C. 5539
Adachi, K. see Nishizawa, M. 4447
Adachi, M. see Kuzuya, M. 2271
Adam, G. and Schierhorn, A. Synthesis of a 19 → 10-thiolo analog of the phytohormone gibberellin A₁, 351
Adam, G. see Alberici, G.F. 1937
Adam, G., Andrieux, J. and Plat, M.M. New dihydroquinolines synthesis via tertiary azides, 3609
Adam, M.A. see Roush, W.R. 1377
Adam, W. and Gillaspay, W.D. Competitive diradical and diazoalkane formation in the thermolysis and photolysis of the azoalkane 7,7,8-trimethyl-2,3-diazatricyclo[4.2.1.0^{4,8}]non-2-ene, 1699
Adam, W., Carballeira, N. and Gillaspay, W.D. Photolysis of the azoalkane 2,3-diazatricyclo[4.3.0.0^{4,9}]non-2-ene: Direct observation of 4-cyclohexenylidiazomethane, 5473
Adam, W., Beinhauer, A., de Lucchi, O. and Rosenthal, R.J. Diennophilic and dipolar additions to bicyclo[2.1.0]pent-2-ene, 5727
Adams, D.R., Domínguez, J.N. and Pérez, J.A. Synthesis of quinolines by reaction of anilinobutenoates with Vilsmeier reagent, 517
Adams, J. see Rokach, J. 5185
Adams, K.G. see Belletire, J.L. 5575
Adcock, W., Iyer, V.S., Kok, G.B. and Kitching, W. Nucleophilic substitution at the bridgehead of 1,4-dihalobicyclo[2.2.2]octanes: An abnormal leaving group mobility order, 5901
Adembri, G., Camparini, A., Donati, D., Ponticelli, S.F.F. and Scotton, M. Photodimerization of N-benzyl-1,4-dihydronicotinamide, 5399
Aebi, J.D. see Seebach, D. 3311
Agawa, T. see Hirao, T. 399, 1255
Agawa, T. see Ohshiro, Y. 3465
Ager, D.J. The preparation of ketones with 1-phenylthio-1-trimethylsilyl ethene, 95
Ager, D.J. The preparation β -ketoaldehydes, 419
Ager, D.J. The synthesis of 2,5-disubstituted furans, 5441
Ageta, H. see Shiojima, K. 5733
Agoh, B. see Montero, J.-L. 3091
Agosta, W.C. see Matlin, A.R. 2961
Agrawal, P.K. and Schneider, H.-J. Deprotonation induced 13 C NMR shifts in phenols and flavonoids, 177
Ahmed, A.F.S. see Malkiewicz, A. 5395
Ahn, K.H. see Kim, S. 3369
Aida, T., Squires, T.G. and Venier, C.G. Reaction of dibenzothiophene sulfone with alkoxides, 3543
Aida, T. see Harpp, D.N. 5173
Aihara, K. see Ito, S. 5249
Aimi, N. see Yamanaka, E. 3861
Aizpurua, J.M. and Palomo, C. Chlorotrimethylsilane/chromium (VI) reagents as new and versatile oxidation systems, 4367
Akagi, Y. see Takeda, K. 4569
Akai, S. see Ishibashi, H. 3877
Akamanchi, K.G. see Pradhan, S.K. 5017
Akiba, K. see Wada, M. 1711, 1715
Akiba, K. see Ohkata, K. 4859
Akiba, K., Nishihara, Y. and Wada, M. Regiosselective synthesis of 4-(2-oxoalkyl)pyridines via 1,4-dihydropyridine derivatives using silyl enol ethers and pyridinium salts, 5269
Akimoto, K. see Tatsuta, K. 4867
Akita, H., Koshiji, H., Furuchi, A.,

- Horikoshi, K. and Oishi, T.** The absolute configuration of oudemansin. Total synthesis of ($-$)-oudemansin, 2009
- Akssira, M.** see Canonne, P. 1929, 5519
- Alais, J., Maranduba, A. and Veyrieres, A.** Regioselective mono-O-alkylation of disaccharide glycosides through their dibutylstannylene complexes, 2383
- Alais, J. and Veyrieres, A.** Block synthesis of a hexasaccharide hapten of i blood group antigen, 5223
- Alajarín, M.** see Molina, P. 3523
- Alam, M.** see DiNovi, M. 855
- Alazard, J.-P.** see Tixidre, A. 3323
- Alazard, J.-P.** see Brayer, J.-L. 4193
- Alberici, G.F., Andrieux, J., Adam, G. and Plat, M.M.** Synthesis of tobacco alkaloids via tertiary azides, 1937
- Albert, K.** see Werner, G. 5193
- Albert, R., Dax, K. and Stütz, A.E.** Synthesis of fluorinated kanamycin A derivatives, 1763
- Albini, F.M.** see Caramella, P. 4377
- Albright, J.O.** see Corey, E.J. 37
- Alexakis, A.** see Mangeney, P. 373
- Alexakis, A.** see Jabri, N. 5081
- Alexakis, A.** see Scott, F. 5767
- Alexander, R.P. and Paterson, I.** Alkene carbosulphenylation and carboselenylation: The use of allyltrimethylsilane and O -silylated enolates, 5911
- Al-Fekri, D.M.** see Dolbier, W.R., Jr. 4047
- Al-Hassan, M.I.** see Miller, R.B. 2055
- Ali, E.** see Pakrashi, S.C. 291
- Ali, E., Roy, S., Chakraborty, P.K. and Pakrashi, S.C.** Synthesis and absolute stereochemistry of ($-$)-vincatine, 2497
- Ali, M.Z.** see Cristol, S.J. 5839
- Alig, B.** see Märkl, G. 1955, 3981
- Al-Khalil, S.I. and Bowman, W.R.** Radical-nucleophilic substitution ($S_{RN}1$) reactions of α -nitrothiocyanates, 2517
- Allais, D.P., Guinaudeau, H., Freyer, A.J., Shamma, M., Ganguli, N.C., Talapatra, B. and Talapatra, S.K.** Limogine and himalayamine: A new class of alkaloids, 2445
- Allinger, N.L. and Eaton, P.E.** The geometries of pentaprismane and hexaprismane insights from molecular mechanics, 3697
- Alpegiani, M., Bedeschi, A., Foglio, M. and Perrone, E.** Desulphurative approaches to penem antibiotics
- I.** 4-Acyldithioazetidin-2-ones *via* thermolysis of penicillin-derived sulphoxides, 1623
- Alpegiani, M., Bedeschi, A., Foglio, M., Giudici, F. and Perrone, E.** Desulphurative approaches to penem antibiotics. II. 4-Acyldithioazetidin-2-ones from penicillin derived sulphenimides, thiosulphonates and disulphides, 1627
- Alpegiani, M.** see Perrone, E. 1631, 3283
- Alper, H.** see Galamb, V. 2965
- Alper, H.** see Januszkiewicz, K. 5159, 5163
- Alper, H., Sibtain, F. and Heveling, J.** Phase transfer catalyzed desulfurization reactions, 5329
- Alper, H., Despeyroux, B. and Woell, J.B.** Selective hydroesterification of alkynes to mono- or diesters, 5691
- Alpertungá, B., Imre, S., Cowe, H.J., Cox, P.J. and Thomson, R.H.** A photo artefact from linderazulene, 4461
- Altnau, G., Rosch, L. und Jas, G.** Reaktion von Tris(trimethylsilyl)aluminium mit α,β -ungesättigten Carbonylverbindungen, 45
- Alvarez, F.M.** see Rao, K.V. 4947
- Alvergne, G., Laurent, A., Masroua, A. et Diab, Y.** Addition d'amino-esters ou D α -hydroxy-esters sur des azirines, 1153
- Alward, S.J.** see Attah-Poku, S.K. 677, 681
- Amaratunga, W. and Fréchet, J.M.J.** The role of chelation in the formylation of Grignard reagents with N-formyl amines, 1143
- Amat-Guerri, F., López-González, M.M.C. and Martínez-Utrilla, R.** Dye-sensitized photooxidation of 1-methylindolyl-3-acetic acid, 3749
- Amemiya, T.** see Yasunami, M. 69
- Amer, I.** see Blum, J. 4139
- Ammanamanchi, R.** see Narasimhan, N.S. 4733
- Ananthan, S.** see Shishoo, C.J. 4611
- Anastassiou, A.G. and Hasan, M.** Evidence for skeletal enantio-merism in benzo[9]annulenone, 4279
- Andersen, L.** see Lamm, B. 2413
- Anderson, D.K., Coburn, C.E., Haag, A.P. and Swenton, J.S.** The synthesis of (\pm) α -citromycinone via a 1,4-dipole-metallated *p*-quinol strategy, 1329
- Anderson, J.E., Barkel, D.J.D. and Cooksey, C.J.** The barrier to rotation in α,β -substituted styrenes. A DNMR investigation, 1077
- Anderson, P.C., Clive, D.L.J. and Evans, C.F.** Synthetic studies related to compactin and mevinolin: A new synthesis of the hexahydronaphthalene portion of compactin, 1373
- Anderson, R.C. and Nabinger, R.C.** Synthesis of a novel platelet activating factor congener from diacetone glucose, 2741
- Anderson, R.C., Bryson, I., Roberts, J.S. and Watson, S.E.** Formation of 2-keto- α -cyperone by oxidation and rearrangement of 3-hydroxysolavetivone, 3267
- Andersson, K.** see Becker, H.-D. 3273
- Ando, A.** see Yanagisawa, H. 1037
- Ando, K.** see Yoshifiji, M. 933
- Ando, R.** see Kuwajima, I. 4429
- Ando, T.** see Yamana, M. 507
- Ando, T.** see Ishihara, T. 4229, 5657
- Ando, W.** see Sekiguchi, A. 2791
- Ando, W.** see Takata, T. 3631
- Ando, W., Hamada, Y., Sekiguchi, A. and Ueno, K.** Silathiacyclop propane. Isolation and characterization, 4033
- Ando, W., Tanikawa, H. and Sekiguchi, A.** Ring expansion of silacyclopentadienylcarbene to silabenzenes, 4245
- Andreoni, A.** see Mongelli, N. 3527
- Andrieux, J.** see Alberici, G.F. 1937
- Andrieux, J.** see Adam, G. 3609
- Aneja, R., Hollis, W.M., Davies, A.P. and Eaton, G.** Preparation of ketones by a novel decarbalkoxylation of β -keto esters: Stereo-electronic assistance to C-C bond fission, 4641
- Angelov, C.M. and Dahl, O. N.** Propargylaminophosphines. A novel rearrangement of propargylheteroatom substituted trivalent phosphorus compounds, 1643
- Angermann, A.** see Mulzer, J. 2843
- Anker, D.** see Picq, D. 1399, 5619
- Anklam, E., König, W.A. and Margaretha, P.** Structure determination of photocyclodimers of 2-cycloalkenes via enantio-selective gas chromatography and GC/MS analysis, 5851
- Annaka, M.** see Tatsuta, K. 4867
- Ansell, M.F., Caton, M.F.L., Drake, A.F. and Stuttle, K.A.J.** Assignment of the configuration at C-15 in prostanoids using C.D. spectroscopy, 3017
- Anton, D.R. and Crabtree, R.H.**

- Tritylpotassium. A new dehydrohalogenation reagent, 2449
- Aoki, M., Tooyama, Y., Uyehara, T. and Kato, T. Synthesis of (\pm)-asperdiol, a marine anticancer cembreneoid, 2267
- Aoyagi, F., Maeno, S., Okuno, T., Matsumoto, H., Ikura, M., Hikichi, K. and Matsumoto, T. Gymnopilins, bitter principles of the big-laughter mushroom *gymnopilus spectabilis*, 1991
- Aoyagi, K. see Homma, M. 4343
- Aoyama, H., Sakamoto, M. and Omote, Y. Photochemical reactions of N-benzoylformyl-N-(phenylthiocarbonyl)-amines. A novel photocyclization involving 1,4-phenylthio migration, 1169
- Aoyama, H. see Omura, S. 3643
- Aoyama, Y. see Ogoshi, H. 929
- Aoyama, Y., Watanabe, T., Onda, H. and Ogoshi, H. Efficient olefin oxygenation with tetrahydroborate and dioxygen catalyzed by a rhodium porphyrin complex, 1183
- Aoyama, Y. see Homma, M. 4343
- Aoyama, Y. see Hata, S. 4729
- Appel, R. und Paulen, W. Das erste Phospha-Keten, spektroskopischer Nachweis und Folgereaktionen, 2639
- Appel, R. und Zimmermann, R. Phosphaalkene als En-Komponenten in (4 + 2)-Cycloadditionen, 3591
- Appleton, R.A. see Ackroyd, J. 5139
- Appolzer, W. and Chapuis, C. Asymmetric Diels-Alder reaction of a chiral allenic ester: enantioselective synthesis of ($-$)- β -santalene, 4665
- Aquadro, R.E. see Tamblyn, W.H. 4955
- Aradi, A.A. see Eisch, J.J. 2073
- Arai, K., Ohara, Y., Iizumi, T. and Takakuwa, Y. Short-step synthesis of naproxen. Regioselective friedel-crafts reaction of 2-chloro-2-alkylthio-propionates, 1531
- Arai, M. see Takahashi, S. 499
- Arai, T., Karatsu, T., Sakuragi, H. and Tokumaru, K. "One-way" photo-isomerization between cis- and trans-olefin. A novel adiabatic process in the excited state, 2873
- Arai, Y. see Shiojima, K. 5733
- Arata, Y. see Hasegawa, T. 1995
- Ariel, S., Scheffer, J.R., Trotter, J. and Wong, Y.-F. High resolution ^{13}C NMR spectroscopy of oxygenated hexalin, octalin and decalin derivatives in solution and the solid state: Conformational analysis and crystal lattice effects, 4333
- Arimoto, M. see Ochiai, M. 777
- Arisawa, K. see Tsuboi, S. 2393
- Armesto, D., Gallego, M.G., Pérez-Ossorio, R. and Horspool, W.M. The photochemical rearrangement of 3-aza-1,2,2,4,4-pentaphenylbut-3-en-1-one. A novel reaction in a β,γ -unsaturated enone, 1089
- Armesto, D., Ortiz, M.J., Pérez-Ossorio, R. and Horspool, W.M. A novel photochemical 1,2-acyl migration in an enol ester. The synthesis of 3-oxazoline derivatives, 1197
- Armstrong, D.R., Breckenridge, R.J., Cameron, C., Nonhebel, D.C., Pauson, P.L. and Perkins, P.G. The role of stereoelectronic factors in the oxidation of phenols, 1071
- Arnett, R.N. and Troughton, E.B. Carbon–carbon bond formation by coordination of carbocations with carbanions, 3299
- Arnó, M., García, B., Pedro, J.R. and Seoane, E. Chemical transformation of ($-$)-artemisinin into (+)-melitensin, 1741
- Arnold, E. see Liu, J.-S. 2351
- Arnold, G.F. see Liu, J.-S. 2351
- Arnold, W., Daly, J.J., Imhof, R. and Kyburz, E. An efficient resolution of 3-PPP and assignment of the absolute configuration, 343
- Arora, G.S. see Shirahama, H. 2869
- Arora, S.K. see Kagan, J. 4043
- Arpin, N. see Pittet, J.-L. 65
- Arques, A. see Molina, P. 3523
- Arseniyadis, S. et Gore, J. Cyclisation d'amines γ et δ -alléniques. Synthèse d'alcenyl-2-pyrrolidines et d'alcenyl-2-piperidines, 3997
- Asada, K. see Oae, S. 1265
- Asakawa, Y. see Huneck, S. 115
- Asano, O. see Nakatsuka, S. 5627
- Asao, T. see Fujimori, K. 781
- Asaoka, M., Ishibashi, K., Yanagida, N. and Takei, H. Total synthesis of (\pm)-eremolactone, 5127
- Ashby, E.C., Coleman, D.T. and Gamasa, M.P. Evidence supporting a single electron transfer pathway in the Cannizzaro reaction, 851
- Ashby, E.C. and Park, W.-S. Evidence for single electron transfer in Claisen condensation. The reaction of ethyl p-nitrobenzoate with the lithium enolate of pinacolone, 1667
- Ashby, E.C., DePriest, R.N. and Pham, T.N. Concerning the reduction of alkyl halides by LiAlH_4 . Evidence that AlH_3 produced *in situ* is the one electron transfer agent, 2825
- Ashida, T. see Morita, M. 5631
- Askani, R., Hornykiewytsch, T. und Müller, K.M. Denitrogenierung von optisch aktivem 9,10-Dihydro-5,6-diazalumbullvalen, 5513
- Aso, Y. see Hayakawa, Y. 1165, 5641
- Attah-Poku, S.K., Gallacher, G., Ng, A.S., Taylor, L.E.B., Alward, S.J. and Fallis, A.G. The influence of sidechain substituents in the intramolecular Diels-Alder reaction, 677
- Attah-Poku, S.K., Alward, S.J. and Fallis, A.G. Selective cleavage of bridged-ring cyclopropyl ketones, 681
- Atta-ur-Rahman, Sultana, M. and Hassan, I. A total synthesis of Na-methyl secodine, 1845
- Atwal, K.S. see Stork, G. 3819
- Aubagnac, J.L., Devienne, F.M. and Combarieu, R. Use of Mike spectrum or CID/MIKE spectrum of a quasi-molecular or cationized ion obtained by the MBSA-FAB method in order to characterize a polar compound, 2263
- Aubouet, J. see Huche, M. 585
- Auchter, G., Kunzmann, E. und Hanack, M. Stereochemie der Homopropargylumlagerung: Solvolysen von 1,2-Dimethyl-3-pentinyltriflat, 577
- Auclair, C. see Meunier, G. 365
- Auge, J. and David, S. A simple, stereoselective, room-temperature synthesis of *cis* vinylloxiranes and *trans* 1'-henyl-1,3-butadiene, 4009
- Aurbach, D. see Hoz, S. 1639
- Aurell, C.-J. see Lamm, B. 2413
- Autino, J.C. see Corral, R.A. 2359
- Avivi, C. see Hoz, S. 1639
- Avrutov, I.M. see Grigorieva, N.Y. 5531
- Awaji, H. see Yoshida, Z. 3469, 3473
- Awano, K. see Ogino, T. 2781
- Ayafor, J.F. see Fomum, Z.T. 4127
- Ayanoglu, E., Kornprobst, J.M., Aboud-Bichara, A. and Djerrassi, C. Phospholipid studies of marine organisms 4. (*2R*, *21Z*)-2-methoxy-21-octacosenoic acid, the first naturally occurring α -methoxy acid from a phospholipid, 1111
- Ayer, W.A. see Liu, J.-S. 2351, 2355
- Ayorinde, F.O. PhSeCl as a chlorinating agent for activated benzene

- derivatives, 2077
- Azadi-Ardakani, M. and Wallace, T.W.** 3,6-Dimethoxybenzocyclobutene: A versatile quinone precursor, 1829
- Baassou, S., Mehri, H.M., Rabaron, A. and Plat, M.** (+) Melonine and *N_B*-oxy melonine, a new indoline skeleton, 761
- Baasov, T.** see Sheves, M. 1745
- Baba, A.** see Matsuda, H. 789
- Babin, P. et Dunoguès, J.** Une nouvelle synthèse de dérivées de l'indanenedione-1, 3, 3071
- Babler, J.H. and Spina, K.P.** Stereochemistry of the dealkoxy-carbonylation of methyl α -cyanocinnamate and of the decarboxylation of the corresponding cyanoacid, a facile stereoselective route to Z-cinnamonicitrile, 3835
- Babot, O.** see Duboudin, F. 4335
- Babu, K.G.S.** see Selvaraj, S. 2509
- Babudri, F., Di Nunno, L. and Florio, S.** Acyclic stereoselection. Erythroselective aldol condensation of 4-acyl-2,3-dihydro-4H-1,4-benzothiazine and 10-acylphenothiazine, 3883
- Bäckvall, J.-E., Nordberg, R.E. and Vägberg, J.** Stereochemistry of allylic carbon–oxygen and carbon–carbon bond formation in palladium-catalyzed decarboxylation of allylic carbonates and acetoacetates, 411
- Bäckvall, J.E.** see Genêt, J.P. 2745
- Badet, B., Julia, M., Mallet, J.M. and Schmitz, C.** Basic elimination of sulfonium salts. Neighbouring group influence on regioselectivity, 4331
- Baettig, K.** see Oppolzer, W. 4975
- Bagheri, V.** see Negishi, E. 5181
- Bailey, M.S., Brisdon, B.J., Brown, D.W. and Stark, K.M.** Transition metal complexes as catalysts in Diels–Alder reactions, 3037
- Baiocco, L. and Picconi, G.** Action of nitrous acid on *N*-substituted-isatinic acids. Disproportionation to indazolols, 3651
- Baiioni, V.** see Scrimin, P. 4473
- Baird, M.S. and Nethercott, W.** 1-Halocyclopropenes and propargylic halides from the reaction of trihalocyclopropanes with methyl lithium, 605
- Baizer, M.M.** see Sugawara, M. 2223
- Bajgrowicz, J.** see Bernardini, A. 3717
- Bajgrowicz, J. A., Cossec, B., Pigiére, Ch., Jacquier, R. et Viallefond, Ph.** Synthèse asymétrique d'acides aminés α -disubstitués, 3721
- Baker, A.D., Scharfman, R. and Stein, C.A.** Ultra long-range through-bond interactions in dithiaspirane disulfoxides as revealed by photoelectron spectroscopy, 2957
- Baker, S.R., Boot, J.R., Morgan, S.E., Osborne, D.J., Ross, W.J. and Shrubshall, P.R.** Synthesis of 8,9-leikotriene C₃ and D₃, 4469
- Balabane, M.** see Genêt, J.P. 2745
- Balakrishnan, P.** see Ensley, H.E. 5189
- Balasubramanian, K.K.** see Selvaraj, S. 2509
- Balasubramanian, K.K.** see Swaminathan, K.S. 3653
- Balasubramanian, K.K.** see Rao, U. 5023
- Balasuriya, R., Chandler, S.J., Cook, M.J. and Hardstone, D.J.** Cleavage reactions using basic hydrogen peroxide. A method for deblocking *p*-nitrobenzyl protected bases and phenols, 1385
- Balcar, J., Chrisam, G., Huber, F.X. und Sauer, J.** Reaktivität von Stickstoff-Heterocyclen gegenüber Cyclooctin als Dienophil, 1481
- Balci, M. and Sütçü, Y.** CoTPP-catalyzed rearrangement of 1,4-endoperoxides, 311
- Balci, M. and Sütçü, Y.** CoTPP-catalyzed reaction mechanism of the cycloheptatriene 1,4-endoperoxide, 4135
- Balegroune, F.** see Texier, F. 189
- Ballester, m., Riera, J., Castañer, J., Onrubia, C. and Ubierna, J.J.** An abnormal hydrolytic C–N cleavage of the amide group in *N*-substituted 4-carbamoyltetradeca-chlorotriphenylmethyl radicals, and related reactions, 2121
- Barmezai, S.** see Ranganathan, D. 1067
- Bamford, A.F., Cook, M.D. and Roberts, B.P.** Mechanism of the reaction of trialkylboranes with α -azidostyrene, 3779
- Ban, N.** see Niwa, H. 937
- Ban, Y.** see Ohnuma, T. 4249, 4253
- Banavali, R.** see Murray, R.W. 2327
- Bandara, B.M.R., Birch, A.J., Kelly, L.F. and Khor, T.C.** The first full resolution of 2-methoxy-tricarbonylcyclohexadienyliron hexafluorophosphate, an example of a synthetic organic equivalent in the series of chiral cyclohex-2-enone-4-cations, 2491
- Banerjee, U.K. and Venkateswaran, R.V.** Photolysis of α -diazocyclopentanones: Ring contraction to functionalised cyclobutanes and synthesis of precursors to grandisol and fragranol, 423
- Banerjee, U.K. and Venkateswaran, R.V.** Reaction of 2,2-disubstituted cyclopentanones with bromine and alkali: Facile preparation of 5,5-disubstituted 2-hydroxycyclopentanones and transformation to the 3,3-disubstituted cyclopentanones, 4625
- Banki, L.** see Guanti, G. 817
- Bankaitis, D.M.** see Crimmins, M.T. 4551, 5303
- Bannwarth, W.** see Sproat, B.S. 5771
- Bantick, J.R.** see Ackroyd, J. 5139
- Baraldi, P.G., Barco, A., Benetti, S., Gandolfi, C.A., Pollini, G.P. and Simoni, D.** Synthesis of a new sulphur-containing carbaprostacyclin analogue, 4871
- Barany, G.** An unusual rearrangement, and further transformations, in the chlorination of alkoxythiocarbonylsulfenyl substrates, 5683
- Barbarella, G., Pitacco, G., Russo, C. and Valentini, E.** Ring-contraction reactions of bicyclic nitronic esters, 1621
- Barbot, F., Kadib-Elban, A. and Miginiac, Ph.** 1,4-addition of Grignard reagents and 1,6-addition of lithium organocuprates to *N,N*-diethylsorbamide, 5089
- Barbugian, N.** see Buzzetti, F. 2505
- Barco, A.** see Baraldi, P.G. 4871, 5669
- Barcus, R.L., Wright, B.B., Platz, M.S. and Scaino, J.C.** Chemical, kinetic and spectroscopic evidence for the reaction of 1-naphthylcarbene with acetonitrile to form a nitrile ylid, 3955
- Bardin, V.V., Furin, G.G., Yakobson, G.G. and Rozhkov, I.N.** Conversion of radical cations of poly-fluoroaromatic compounds into dihydroaromatic products in the presence of fluoride and chloride anions, 4875
- Bari, S.S.** see Manhas, M.S. 2323
- Barkel, D.J.D.** see Anderson, J.E. 1077
- Barker, P.J., Beckwith, A.L.J. and Fung, Y.** Reversible coupling of a substituted allylic radical with molecular oxygen in a TOCO reaction of 5-methylhepta-1,3,6-

- triene, 97
- Barner, B.A.** see **Williams, D.R.** 427
- Barry, C.N.** and **Evans, S.A., Jr.** Chlorination and cyclodehydration of 1,2-Diols with the "tri-phenylphosphine-tetrachloromethane-potassium carbonate" reagent, 661
- Bartlett, P.A.** and **Holmes, C.P.** A highly stereoselective synthesis of davanone, 1365
- Bartnik, R.**, **Cebulska, Z.** et Laurent, A. Synthèse photochimique d'aza-1 bicyclobutanes, 4197
- Barton, D.H.R.**, **Le Greneur, S.** and **Motherwell, W.B.** On the reaction of β -naphthol with *N,N*-dimethylhydrazine — a new radical amination process, 1601
- Barton, D.H.R.**, **Bashiardes, G.** and **Fourrey, J.-L.** An improved preparation of vinyl iodides, 1605
- Barton, D.H.R.**, **Hay-Motherwell, R.S.** and **Motherwell, W.B.** Further studies on the activation of the C—H bond in saturated hydrocarbons, 1979
- Barton, D.H.R.**, **Lusinchi, X.** and **Ramirez, J.S.** Improved synthesis of 1,2,4-triazoline-3,5-dione derivatives of ergosterol and a new method for their reconversion to ergosterol, 2995
- Barton, D.H.R.**, **Circh, D.** and **Motherwell, W.B.** A practical alternative to the Hunsdiecker reaction, 4979
- Barton, D.H.R.**, **Motherwell, W.B.** and **Zard, S.Z.** A mild oxidative NEF reaction, 5227
- Barton, D.H.R.** and **Kretzschmar, G.** Radical chemistry of thiohydroxamic acid esters, 5889
- Barton, J.W.** and **Rowe, D.J.** Benz[3,4]cyclbuta[1,2b]biphenylene, the linear sesquibiphenylene, 299
- Barton, T.J.** and **Burns, G.T.** Vinyl-silylene rearrangement. A possible silacyclopropanylidene intermediate, 159
- Bartsch, R.** see **Solladie, G.** 755
- Bartsch, R.A.** see **Croft, A.P.** 2737
- Bartsch, R.A.** see **Czech, B.** 457, 1327, 2923
- Barua, J.N.** see **Chowdhury, P.K.** 3383, 4485
- Barua, N.C.**, **Sharma, R.P.** and **Baruah, J.N.** A new method for cleaving methyl and methyl-thiomethyl ethers, 1189
- Barua, N.C.** see **Barua, P.** 5801
- Barua, P.**, **Barua, N.C.** and **Sharma, R.P.** Cyclodehydrogenation of *ortho*-(3,3-dimethylallyl) phenols with trityl tetrafluoroborate, 5801
- Baruah, J.N.** see **Barua, N.C.** 1189
- Baruah, J.N.** see **Chowdhury, P.K.** 5429
- Bashiardes, G.** see **Barton, D.H.R.** 1605
- Basu, B.** see **Maity, S.K.** 3921
- Batail, P.** see **Lequan, M.** 3107
- Batmangherlich, S.**, **Davidson, A.H.** and **Proctor, G.** The addition of carbanions to iodolactones: A stereochemically controlled approach to substituted tetrahydrofurans, 2889
- Battiste, M.A.**, **Coxon, J.M.**, **Jones, A.L.**, **King, R.W.**, **Simpson, G.W.** and **Steel, P.J.** Addition of methanol to *endo*-tricyclo [3.2.1.0^{2,4}]oct-6-ene: A probe of cyclopropyl corner vs edge protonation, 307
- Battiste, M.A.**, **Strekowski, L.**, **Vanderbilt, D.P.**, **Visnick, M.**, **King, R.W.** and **Nation, J.L.** Anastrephin and epianastrephin, novel lactone components isolated from the sex pheromone blend of male Caribbean and Mexican fruit flies, 2611
- Batu, G.** see **Petrakis, K.S.** 3063
- Bauer, P.** see **Lozach, D.** 4213
- Bäuml, E.** see **Mayr, H.** 357
- Baumstark, A.L.** and **Vasquez, P.C.** Epoxidation of 2,3-dimethyl-2-butene by substituted benzyl-azobenzene α -hydroperoxides in C_6D_6 , 123
- Baxter, G.** see **Nuneck, S.** 3787
- Bayham, M.K.** and **Hanson, J.R.** Some 19-norgiberrell-16-enes as inhibitors of giberellin plant hormone biosynthesis, 1941
- Bazzqz, M.B.** see **Brereton, R.G.** 5775
- Beak, P.** see **Kokko, B.J.** 561
- Beak, P.** and **Chen, C.-W.** 2-Azaisobenzofurans as intermediates in a convenient annelation of aromatic tertiary amides, 2945
- Beauchamp, P.D.** see **Shea, K.J.** 4173
- Beauhaire, J.**, **Chiaroni, A.**, **Fourrey, J.L.** and **Riche, C.** Crystal structure of the dimer of 1,2-dehydroisophotsantonic lactone, 4417
- Beck, A.**, **Hunkler, D.** and **Prinzbach, H.** Synthesis and electrocyclisation of hendecafulvadienes "azulenoid" 14 π -annulenes, 2151
- Becker, D.**, **Kimmel, T.**, **Cyon, R.**, **Moore, I.**, **Wysoki, M.**, **Bestmann, H.J.**, **Platz, H.**, **Roth, K.** and **Vostrowsky, O.** (3Z, /Z, 9Z)-3,6,9-
- nonadecatriene — a component of the sex pheromonal system of the giant looper, *Boarmia (Ascotis) selenaria* Schiffermüller (Lepidoptera: geometridae), 5505
- Becker, H.-D.** and **Andersson, K.** Dicnophilic anthracenes: Formation of novel triptycenes via thermal and photochemical intramolecular Diels–Alder reactions of dianthrylethenes, 3273
- Beckhaus, H.-D.** see **Brikofer, H.** 185
- Beckhaus, H.-D.**, **Schaetzer, J.** and **Rüchardt, C.** The dimer of 2-methyl-1,1-diphenylpropyl radicals and its reactivity, 3307
- Beckwith, A.L.J.** see **Barker, P.J.** 97
- Bedeschi, A.** see **Alpegiani, M.** 1623, 1627
- Bedeschi, A.** see **Perrone, E.** 1631, 3283
- Bedford, R.**, **Bradley, C.V.**, **Gardner, S.**, **Keene, B.R.T.** and **Pettman, A.** Stevens rearrangements in dihydrophenanthridinium compounds, 1553
- Bednarski, M.**, **Maring, C.** and **Danishefsky, S.** Chiral induction in the cyclocondensation of aldehydes with siloxydienes, 3451
- Beecher, C.W.W.** and **Kelleher, W.J.** The incorporation of berberine into jatrorrhizine, 469
- Beecroft, R.A.**, **Davidson, R.S.** and **Goodwin, D.** The amine assisted photo-dehalogenation of haloaromatic hydrocarbons, 5673
- Beetz, T.** see **Van Boeckel, C.A.A.** 3775
- Beguin, C.G.** see **Hamman, S.** 57
- Behforouz, M.** see **Kelly, T.R.** 2331
- Behnke, M.** see **Majetich, G.** 1909
- Beinhauer, A.** see **Adam, W.** 5727
- Belleau, B.** see **Honek, J.F.** 257
- Belleau, B.** see **Lajoie, G.** 3815
- Belleferte, J.L.** and **Walley, D.R.** Olefin synthesis via fragmentation of hindered ester halides, 1475
- Belleferte, J.L.** and **Adams, K.G.** Versatile diquinane intermediates, 5575
- Belzner, J.** see **Schlüter, A.-D.** 891
- Bender, S.O.**, **Detty, M.R.**, **Fichtner, M.W.** and **Haley, N.F.** Lithiation of 1,3-ditelluroles. A striking substituent effect of the phenyl group, 237
- Benedikt, E.** see **Kost, H.-P.** 3975
- Benetti, S.** see **Beraldi, P.G.** 4871, 5669
- Ben-Ishai, D.** and **Hirsch, S.** Amidoalkylation of dienes with adducts of glyoxylic acid — synthesis of

- α -acylamino- γ -alkenyl- γ -butyrolactones, 955
- Ben-Ishai, D.** and **Hirsh, S.** Erratum, 3162
- Bennetau, B.** et **Dunogues, J.** Un nouveau synthon organosilicium: Le benzyltrimethylsilane, 4217
- Benzal, R.** see **Molina, P.** 3523
- Beppu, T.** see **Ogita, T.** 2283
- Berg, J.-E.** see **Wahlberg, I.** 843
- Berg, U.** see **Rojoharison, H.G.** 2259
- Bergbauer, A.** see **Märkl, G.** 4079
- Bergbreiter, D.E.** see **Smith, J.K.** 3559
- Berger, J.G., Tahbaz, P., McPhail, A.T.** and **Onan, K.D.** Stereocomplementary reductions of indoles, 2469
- Bergeret, W.** see **Raynal, S.** 1791
- Bergman, A.** see **Tietze, L.F.** 3579
- Bergman, J., Sand, P.** and **Tilstam, U.** A new versatile synthesis of 4-nitroindoles, 3665
- Bergman, R.** see **Stern, O.** 1414
- Bergman, R.** see **Kihlberg, J.** 4631
- Berlan, J.** see **Huche, M.** 585
- Bernadou, J.** see **Meunier, G.** 365
- Bernardi, F.** see **Wolfe, S.** 3789
- Bernardi, R., Caronna, T.** and **Coggiola, D.** Regiochemical control in the allylic hydrogen abstraction from 1-X-substituted cyclohexenes, 5019
- Bernardinelli, G.** see **Oppolzer, W.** 4975
- Bernardini, A., El Hallaoui, A., Jacquier, R., Pigiére, Ch., Viallefond, Ph.** et **Bajgrowicz, J.** Utilisation des organocuprates à la synthèse d'aminoacides, 3717
- Berndt, J.** see **Krebs, A.** 4083
- Bernet, B.** and **Vasella, A.** Enantioselective synthesis of D-erythro-sphingosine, 5491
- Bernhardt, E.A.** see **Jaeger, D.A.** 4521
- Bernillon, J.** see **Pittet, J.-L.** 65
- Bertrand, G.** see **Veith, M.** 4219
- Bertrand, M., Dulcere, J.-P., Rodriguez, J.** et **Zahara, J.-P.** Cohalogenation de cétones α,β -éthyleniques dans le THF, 1967
- Bertrand, M.** see **Tibil, A.** 4199
- Bertrand, M.** see **Rodriguez, J.** 4423
- Bertz, S.H.** The conversion of bicyclo[3.3.0]octane-3,7-dione to bicyclo[3.3.0]oct-1-ene-3,7-dione. Symmetry as a complicating factor in synthetic analysis, 5577
- Beslin, P., Metzner, P., Vallée, Y.** and **Vialle, J.** Cis-selectivity of the kinetic deprotonation of dithiopropanoates, 3617
- Besselièvre, R.** see **Husson, A.** 1031
- Besselièvre, R.** see **Bonin, M.** 1493
- Bestmann, H.J.** see **Becker, D.** 5505
- Bestre, R.D., Cole, E.R.** and **Crank, G.** Selective oxidation of n-alkanes with lead tetraacetate, 3891
- Beugelmans, R., Lechevalier, A.** et **Rousseau, H.** Substitution nucléophile radicalaire en chaîne (S_N1): 11ème mémoire. Substrates et nucléophiles dérivés de nitroalcanes aliphatiques fonctionnalisés, 1787
- Beutler, T.** see **Schmidt, U.** 3573
- Beylin, V.G., Kawasaki, A.M., Cheng, C.S.** and **Townsend, L.B.** Pyrrolo-pyrimidine nucleosides 19. A total synthesis of the nucleoside antibiotic cadeguomycin [2.amino-7-(D-ribofuranosyl)-pyrrolo 2,3-d]pyrimidin-4-one-5-carboxylic acid, 4793
- Bhatdi, V.S.** see **Shishoo, C.J.** 4611
- Bhakta, C.** see **Zoretic, P.A.** 1125
- Bhatia, A.V.** see **Crouch, R.C.** 4801
- Bhattacharjya, A.** see **Pakrashi, S.C.** 291
- Bhupathy, M.** see **Cohen, T.** 4163
- Bickelhaupt, F.** see **Turkenburg, L.A.M.** 1817, 1821
- Bieniek, A.** see **Epszajn, J.** 4735
- Biernat, J., Wolter, A.** and **Köster, H.** Purification orientated synthesis of oligodeoxynucleotides in solution, 751
- Biernat, J.** see **Sinha, N.D.** 5843
- Bigam, G.** see **Liu, J.-S.** 2355
- Bikelhaupt, F.** see **Smit, C.N.** 2031
- Billedieu, R.J., Sibi, M.P.** and **Sniekus, V.** Directed ortho metalation of silyloxybenzamides. Anion induced O → C silicon rearrangement, 4515
- Billington, D.C.** A direct organocobalt mediated synthesis of substituted 3-oxabicyclo[3.3.0]-oct-7-en-6-ones, 2905
- Billmers, J.M.** see **Davis, F.A.** 1213, 3191
- Billups, W.E.** and **Lin, L.-J.** 1,4-di-tert-butylmethylenecyclopropene, 1683
- Bimanand, A.Z.** and **Houk, K.N.** The synthesis and cycloadditions of C-cyclopropyl nitrones, 435
- Binger, P., Brinkmann, A.** und **Richter, W.J.** Asymmetrische Induktion bei der Nickel(0)-katalysierten [3 + 2]-Cycloaddition von Methylenecyclopropan mit chiralen Alkylacrylaten, 3599
- Binger, P.** und **Wedemann, P.** Nickel(0)-Katalysierte [3 + 2]-Cyclo-
- Cycloadditionen von (Diorganyl-methylen)cyclopropanen mit elektronenarmen Olefinen, 5847
- Bingham, S.E.** see **Cao, T.M.** 1019
- Birch, A.J.** see **Bandara, B.M.R.** 2491
- Birkhoffer, H., Beckhaus, H.-D.** and **Rüchardt, C.** On the stabilization energy of α -methoxyalkyl radicals, 185
- Bischof, P.** see **Gleiter, R.** 1149
- Biskupiak, J.E.** and **Ireland, C.M.** Pectinatone, a new antibiotic from the mollusc *siphonaria pectinata*, 3055
- Bisseck, P.** et **Charles, G.** Synthèse d'un stéroïde à chaîne latérale tétrahydrofurane: L'oxydation 22, 25 cholestene-5 ol-3 β , 4223
- Bittner, S.** see **Pomerantz, M.** 7
- Blagoev, B.** see **Toullec, J.** 589
- Bláha, K.** see **Koblicová, Z.** 4381
- Blanchard, M.** see **Revial, G.** 899
- Blandy, C., Choukroun, R.** and **Gervizis, D.** Synthesis of O-protected azido hydrins catalyzed by titanium and vanadium complexes, 4189
- Blaschke, G.** and **Scriba, G.** The biosynthesis of cularine, 5855
- Blinka, T.A.** and **West, R.** Octacyano-tetramethylenecyclobutane dianion and its anion-radical, 1567
- Bloch, R.** and **Abecassis, J.** A general and stereoselective synthesis of (E,E)-conjugated dienes, 1247
- Bloch, R., Hassan, D.** and **Mandard, X.** The stereoselective synthesis of functionalized conjugated dienes: preparation of (E,E)- α -hydroxy dienes and of vinylallenes, 4691
- Bloem, R.J., Smitka, T.A., Bunge, R.H., French, J.C.** and **Mazzola, E.p.** Roridin L-2, a new trichothecene, 249
- Blount, J.F.** see **Büchi, G.** 2527
- Blum, J., Amer, I., Zoran, A.** and **Sasson, Y.** Catalytic hydrogenation of olefins, acetylenes and arenes by rhodium trichloride and aliquat-336 under phase transfer conditions, 4139
- Bluthe, N., Malacria, M.** et **Gore, J.** Transposition d'oxy-COPE à température ambiante catalysée par le dichlorure de palladium-bisbenzonitrile, 1157
- Boar, R.B., Reay, S., Shaker-Jomaa, R.M.A.** and **Williams, D.J.** A novel and reversible rearrangement of a seco-lanosterol derivative, 617
- Bobilier, C.** see **Müller, P.** 5499
- Boche, G.** and **Marsch, M.** Ring opening in the reaction of diphenyl-

- cyclopropane derivatives with strong base: Evidence for a proton transfer and against an electron transfer initiated reaction. Facile disrotatory ring opening of a cyclopropyl anion at -75°C , 3225
- Boche, G.** and **Etzrodt, H.** The reaction of n-butyllithium/sodium (potassium) *tert*-butoxide (Lochmann-Schlosser base) with a CH-acid leads to roganio-sodium (potassium) compounds. An NMR spectroscopical study of several organo-lithium, -sodium and -potassium compounds in tetrahydrofuran-D₆, 5477
- Bock, M.G.** see **DiPardo, R.M.** 4805
- Boeckman, R.K., Jr.** and **Flann, C.J.** A convenient route to functionalized mixed acetals via oxymercuration – demercuration, 4923
- Boeckman, R.K., Jr.** and **Flann, C.J.** Stereoccontrol in the intramolecular Diels–Alder reaction VI: Use of mixed acetals as ester equivalents in the connecting chain, 5035
- Boente, J.M., Castedo, L., Cuadros, R., Saá, J.M., Sua, R., Perales, A., Martínez-Ripoll, M.** and **Fayos, J.** Ribasine, a new class of papaveraceae alkaloids, 2029
- Boente, J.M., Castedo, L., de Lera, A.R., Saá, J.M., Sua, R.** and **Vidal, M.C.** Oxocompostelline and oxocularine, structure and synthesis, 2295
- Boente, J.M., Castedo, L., Cuadros, R., de Lera, A.R., Saá, J.M., Sua, R.** and **Vidal, M.C.** New phenolic isocularine and benzylisoquinoline alkaloids and their biogenetic relationship, 2303
- Boente, J.M., Campello, M.J., Castedo, L., Dominguez, D., Saá, J.M., Sua, R.** and **Vidal, M.C.** Ribasidine, a new ribasine alkaloidal structure and characterization, 4481
- Bogdan, S.** see **Cossement, M.** 2563
- Boger, D.L.** and **Panek, J.S.** 1,2,4-triazine preparation via thermal cycloaddition of dimethyl 1,2,4,5-tetrazine-3,6-dicarboxylate with aryl thiimidates, 4511
- Boger, D.L.** and **Mulligan, M.D.** Inverse electron demand Diels–Alder reactions of 3-carbo-methoxy-2-pyrones. Controlled introduction of oxygenated aromatics: Benzene, phenol, catechol, resorcinol, pyrogallol annulation, 4939
- Bohlmann, F.** see **Massanet, G.M.** 1641
- Bohlmann, F.** see **Uyehara, T.** 4445
- Böhm, I.** see **Reissig, H.-U.** 715
- Boisvert, L.** and **Brassard, P.** Regiospecific additions of some simple dienes to haloquinones, 2453
- Bölcsei, H.** see **Szántay, C.** 5539
- Bonde, S.E.** see **Molander, G.A.** 5449
- Bonin, M., Besselière, R., Grierson, D.S.** and **Husson, H.-P.** 2-Cyano Δ^3 piperideines VIII: Biomimetic approach to the synthesis of the decahydroquinoline ring system of poison-dart frog toxins, 1493
- Bonini, C., Kinnel, R.B., Li, M., Scheuer, P.J.** and **Djerassi, C.** Minor and trace sterols in marine invertebrates 38: Isolation, structure elucidation and partial synthesis of papakusterol, a new biosynthetically unusual marine sterol with a cyclopropyl-containing side chain, 277
- Bonjouklian, R.** see **Phillips, M.L.** 335
- Bonser, S.M.** see **Gassman, P.G.** 3431
- Bonsignore, L., Loy, G., Secci, M.** and **Cabiddu, S.** Novel reactions of carbon suboxide. IV. Synthesis of some N-hydroxy-2-oxo-2H-1-benzopyran-3-carboxamides, 5013
- Boot, J.R.** see **Baker, S.R.** 4469
- Booth, P.M., Fox, C.M.J.** and **Ley, S.V.** Regiospecific alkylation of β -ketothioesters and use in the synthesis of acyl-tetrone acids, 5143
- Borchardt, R.S.** see **Sinhababu, A.K.** 227
- Bordeleau, L.** see **Gravel, D.** 699
- Borgese, J.** see **Wei, C.-C.** 1875
- Born, L.** see **Knops, H.-J.** 2973
- Born, W.** see **Krebs, A.** 4821
- Bos, H.J.T.** see **Kamphuis, J.** 1101, 2299
- Bosch, R.J.** see **Lambert, J.B.** 3799
- Bose, A.K.** see **Manhas, M.S.** 2323
- Böttger, D.** and **Welzel, P.** A synthesis of moenocinol from isoprenoid precursors, 5201
- Bouadili, A.** see **Dormond, A.** 3087
- Bouas-Laurent, H.** see **Castellan, A.** 5215
- Bouchaudy, J.-F.** see **D'Angelo, J.** 1489
- Bourgain-Commercon, M., Foulon, J.P.** et **Normant, J.F.** Organo-cuivreux vinyliques XXIII: Accès à des organo-cuivreux vinyliques portant un groupe silicié en position allylique, 5077
- Bouillant, M.-L., Favre-Bonvin, J.** et **Ricci, P.** Dianthalexine, nouvelle phytoalexine, de type benzoxazinone, isolée de l'oeillet *Dianthus caryophyllus* L. (Carophyllacées), 51
- Bouillant, M.-L.** see **Pittet, J.-L.** 65
- Boulanger, W.** see **Warner, P.** 4165
- Boussac, G.** see **Jalali, M.** 4307
- Bowen, P.** see **Goldsmith, D.** 5935
- Bowman, W.R.** see **Al-Khalil, S.I.** 2517
- Bozhkova, N.V.** see **Orahovats, A.S.** 947
- Bradley, C.V.** see **Bedford, R.** 1553
- Bradley, J.P., Jarvis, T.C., Johnson, C.D., McDonnell, P.D.** and **Weatherstone, T.A.P.** Stereo-electronic effects in ring closure reactions, 2851
- Branch, C.L.** and **Pearson, M.J.** Synthesis of novel fused β -lactams by intramolecular 1,3-dipolar cycloadditions. 6. Phenoxo-acetamido iso-azapenem and iso-azacephem carboxylic acids, 1649
- Brandi, A.** see **De Sarlo, F.** 1815
- Brandsma, L.** see **Kulik, W.** 2203
- Brannon, M.J.** see **Meyer, W.L.** 5059
- Brassard, P.** see **Boisvert, L.** 2453
- Brault, J.-F.** see **D'Angelo, J.** 1489
- Braun, M.** und **Ringer, E.** Seitenkettenmetallierung 2-methyl-substituierter Benzylalkohole, 1233
- Breckenridge, R.J.** see **Armstrong, D.R.** 1071
- Bremmer, M.L.** and **Weinreb, S.M.** A stereoselective total synthesis of *epi*-lupinine, 261
- Bremner, J.A.S., Colvin, E.W., Gallacher, G.** and **MacLeod, A.** Total synthesis of a 1 α -hydroxy-1-carbacephem, 3783
- Brennan, J.** and **Pinto, I.L.** An efficient synthesis of (\pm) 7-oxo-3-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate-3,3-dioxide, 4731
- Breque, A.** see **Raynal, S.** 1791
- Brereton, R.G., Bazzaz, M.B., Santikarn, S.** and **Williams, D.H.** Positive and negative ion fast atom bombardment mass spectrometric studies on chlorophylls: Structure of 4-vinyl-4-desethyl chlorophyll B, 5775
- Breslow, R., Maitra, U.** and **Rideout, D.** Selective Diels–Alder reactions in aqueous solutions and suspensions, 1901
- Breslow, R.** and **Heyer, D.** Directed steroid chlorination catalyzed by an ion-paired template, 5039

- Bridges, A.J. and Fischer, J.W.** A simple preparation of several new 2,3- and 1,2,3-substituted buta-1,3-dienes from 1,4-dichlorobutene, 445
- Bridges, A.J. and Fischer, J.W.** The Diels-Alder reactivity of some new sulfur (selenium) substituted halobutadienes, 447
- Bridges, A.J. and Ross, R.J.** Leaving group dependent stereochemistry of thioallene formation with phenylthiocopper phosphine complexes, 4797
- Brinker, U.H.** see Fleischhauer, I. 3025
- Brinkmann, A.** see Binger, P. 3599
- Brisdon, B.J.** see Bailey, M.S. 3037
- Brockmann, H.** see Risch, N. 173
- Brönneke, A.** see Hoppe, D. 1687
- Brook, M.A.** see Lee, S.D. 1569
- Brooks, D.E. and Palmer, J.T.** A convergent synthetic strategy for the polyene macrolide pimaricin, 3059
- Brown, A.G., Howarth, T.T. and Ponsford, R.J.** The chemistry of clavulanic acid: Some reactions of esters under neutral, acidic and basic conditions, 2693
- Brown, D.W.** see Bailey, M.S. 3037
- Brown, E.** see Roulleau, F. 719, 4195
- Brown, H.** see Pelter, A. 1433, 3162
- Brown, J.D.** see Comins, D.L. 5465
- Brown, P.J., Neville Jones, D., Khan, M.A. and Meanwell, N.A.** Alkenyl sulphoxides as precursors to cyclopentenones and prostanoid β -side chains, 405
- Brown, P.** see Wheeler, J.W. 5811
- Brownbridge, P., Hunt, P.G. and Warren, S.** Extended enolate ions from γ -phenylthio-crotonate esters, 3391
- Broxterman, Q.B. and Hogeveen, H.** Cyclic delocalized 3 π -electron systems. An ESR spectroscopic investigation of some tetra alkyl-substituted cyclobutadiene radical cations, 639
- Brüggemann, K.** see Tietze, L.F. 3579
- Brigidou, J.** see Sola, R. 1501
- Brumfield, M.A., Mariano, P.S. and Yoon, U.C.** Intramolecular photoarylations of haloarylethyl- β - and α -enaminoketones. A correction and further results, 5567
- Brun, P., Tenaglia, A. and Waegell, B.** Regio and stereo selective synthesis of disubstituted cyclooctadienes, 385
- Brunden, M.J.** see Gough, G.R. 5317, 5321
- Brussee, J. and Jansen, A.C.A. A** highly stereoselective synthesis of S(-)-[1,1'-binaphthalene]-2,2'-diol, 3261
- Bryant, L.R.B. and Coyle, J.D.** Photochemical hydrogen abstraction and cyclisation in maleimide derivatives, 1841
- Bryce, M.R. and Howard, J.A.K.** Complexes of 4,4-diethylmorpholinium with 2,5-dibromo-7,7,8-tetracyano-*p*-quinodimethane (DEM)_x(TCNQBr₂)_y, 1205
- Bryson, I.** see Anderson, R.C. 3267
- Brzezinski, J.Z.** see Epszajn, J. 4735
- Buchanan, G.W. and Webb, V.L.** Conformational analysis of aminocyclohexane using ¹⁵N nuclear magnetic resonance at low temperature, 4519
- Büchi, G., Francisco, M.A., Murray, W.V., Kachholz, T., Demain, A.L. and Blount, J.F.** Asperitin - A new metabolite of *Aspergillus parasiticus*, 2527
- Büchi, G., Francisco, M.A. and Michel, P.** The synthesis of asperitin, 2531
- Bulman-Page, P.C., Roberts, R.A. and Paquette, L.A.** A versatile titanium-mediated procedure for diversified bisfunctionalization of γ -lactols, 3555
- Bunce, R.A., Schlecht, M.F., Dauben, W.G. and Heathcock, C.H.** Organic reactions at high pressure. Conjugate additions of O-silylated ketene acetals to activated enones, 4943
- Bunce, R.A.** see Dauben, W.G. 5709
- Buncel, E. and Hoz, S.** Can ground-state destabilization of an α -nucleophile induce an α -effect? 4777
- Bunge, R.H.** see Bloem, R.J. 249
- Bunnenberg, E.** see Lu, Y. 2433
- Burdi, D.F.** see Sternbach, D.D. 3295
- Burger, W.** see Märkl, G. 2545
- Burk, L.A.** see Soffer, M.D. 1455
- Burke, S.D., Murtiashaw, C.W. and Oplinger, J.A.** Synthetic studies directed at (\pm)-quadrone. A new end game, 2949
- Burke, S.D., Pownier, T.H. and Kageyama, M.** A Diels-Alder approach to *trans*-fused, angularly methylated decalins, 4529
- Burkholder, C.R.** see Dolbier, W.R., Jr. 1217
- Burns, G.T.** see Barton, T.J. 159
- Bushby, R.J., Mann, S. and Jesudason, M.** The generation of a TIME biradical in the photo-sensitised photolysis of a bi-(1-pyrazolin-4-ylidene), 4743
- Buss, A.D. and Warren, S.** The Wittig-Horner route to tri-substituted alkenes: Synthesis of *Z*- α -bisabolene, 111
- Buss, A.D. and Warren, S.** *Cis*-olefins from the Horner-Wittig reaction; origin and optimisation of stereochemistry, 3931
- Buss, A.D., Mason, R. and Warren, S.** Trans alkenes by stereoselective reduction of α -Ph₂PO ketones: *E*-isosaffrole, *E*-anethole, and feniculin, 5293
- Butenschön, H. and de Meijere, A.** Ready access to bridgehead olefinic isomers of the triquinacene skeleton, 4563
- Butkowskyj-Walkiw, T.** see Von Norman, S. 4813
- Butselaar, R.J.** see Feringa, B.L. 1193
- Buynak, J.D.** see Falck, J.R. 5715, 5719
- Buzzetti, F., Barbugian, N. and Gandolfi, C.A.** General method for the synthesis of chiral 2-oxoalkylidenetriphenyl-phosphoranes, 2505
- Bycroft, B.W., King, T.J. and Shute, R.E.** An unusual β -lactam ring expansion reaction, 601
- Cabiddu, S.** see Bonsignore, L. 5013
- Caia, V., Cuk, G., Gallo, R., Mancini, V. and Pitoni, E.** A high enthalpy value in thermal isomerization of photosynthesized *cis*-9-styrylacridines, 3903
- Caine, D., Harrison, C.R. and Vanderveer, D.G.** Diels-Alder reactions of 2-carbomethoxy-4,4-dimethylcyclopentenone, 1353
- Caine, D., Crews, E. and Salvino, J.M.** Retroaldol reactions of β -hydroxy- α -phenylsulfenyl cyclohexanone derivatives, 2083
- Caine, D. and Ukachukwu, V.C.** Acylation of lithium Z- β -lithio-acrylates: Application to a short synthesis of lepiochlorin, 3959
- Callant, P., Storme, P., van der Eycken, E. and Vandewalle, M.** Iridoids: Stereospecific synthesis of functionalized cyclopentanoid intermediates via bicyclo[2.2.1]heptanones, 5797
- Cambie, R.C., Larsen, D.S., McDonald, H., Rutledge, P.S. and Woodgate, P.D.** A convenient intermediate for 4-demethoxy-anthracyclinone synthesis, 2319
- Cameron, A.F.** see Huneck, S. 115, 3787
- Cameron, C.** see Armstrong, D.R.

- 1071
 Camparini, A. see Adembri, G. 5399
 Campbell, M.M., Kaye, A.D. and Sainsbury, M. Brief Diels Alder syntheses of (\pm)-methyl 5-epishikimate and (\pm)-methyl *cis*-3,4-dihydro-3,4-dihydroxybenzoate, 4745
 Campello, M.J. see Boente, J.M. 4481
 Camps, F., Coll, J., Fabrias, G., Guerrero, A. and Riba, M. Anomalous formation of 1,1,4-tribromohex-1-en-3-one in the Wittig reaction of 2-halopent-2-enals with debromomethylene triphenylphosphorane, 3387
 Canonne, P., Akssira, M. et Lemay, G. Alkylation des lactones tricycliques pontées. Application à la synthèse des butenolides tri-substitués en 2 et 4, 1929
 Canonne, P., Fytas, G. et Thibeault, D. Annélation dans la série des dialkyl-4,4 isoxazolinones-5, 2991
 Canonne, P. et Akssira, M. Nouvelle application de l'anhydride oxa-7 exo bicyclo[2.2.1]heptène-5 dicarboxylique-2,3 Synthèse des α -furyl γ -cetoacides, 5519
 Cao, T.M., Bingham, S.E. and Sung, M.T. A novel route for solid phase synthesis of polynucleotides using phosphite chemistry, 1019
 Capdevielle, P. et Maumy, M. Oxydation selective en para des phénols par un complexe cuivre-que oxydant, 5611
 Capdevila, J. see Manna, S. 33
 Capdevila, J. see Falck, J.R. 5715, 5719
 Caputo, R. see Palumbo, G. 1307
 Caramella, P., Corsaro, A., Compagnini, A. and Albini, M. Fragmentation of nitrile oxides with triethylamine, 4377
 Carballeira, N. see Adam, W. 5473
 Cardellina, J.H. see Grode, S.H. 691
 Caristi, C., Gattuso, M., Feriazzo, A. and Stagno d'Alcontres, G. A novel isoxazole ring transformation. 5-Oxidopyridazinium betaines from arylhydrazones of 5'-henacylisoxazines, 1285
 Caristi, C., Cimino, G., Feriazzo, A., Gattuso, M. and Parisi, M. Unusual behaviour of N-bromosuccinimide. Conversion of N,N-dimethyl-amides to N-methyl, N-succinimidomethylamides, 2685
 Caristi, C., Cimino, G., Feriazzo, A., Gattuso, M. and Parisi, M. Erratum, 2682
 Carless, H.A.J. and Fekarurhobo,
- G.K. A photochemical synthesis of $\beta\gamma$ -epoxy-cyclohexanones, 107
 Carmely, S., Loya, Y. and Kashman, Y. Siphonellinol, a new triterpene from the marine sponge *Siphonochalina siphonella*, 3673
 Caronna, T. see Bernardi, R. 5019
 Carré, R. see Vaultirr, M. 763
 Carroll, F.I. see Manoharan, M. 1855
 Carroll, P. see Menachery, M.D. 167
 Carrupt, P.-A. see Mahaim, C. 3603
 Carrupt, P.-A. see Zhichen, Z. 3607
 Caruthers, M.H. see McBride, L.J. 245
 Caruthers, M.H. see McBride, L.J. 2953
 Casadevall, E. see Metzger, P. 4013
 Casares, A.M. see Majetich, G. 1909, 1913
 Cashman, J. R. see Corey, E.J. 4917
 Casida, J.E. see Kimmel, E.C. 2819
 Cassani, G., Massardo, P. and Piccardi, P. A stereospecific synthesis of conjugated (*E*, *Z*) - and (*E*, *E*)-alkadienes by the palladium-catalyzed reaction of (*E*)-1-alkenylboronic acids and 1-alkenyl iodies, 2513
 Castaldi, G., Perdoncin, G., Giordano, C. and Minisci, F. Stereochemistry of reduction of cyclic ketones by alkali metals and by sodium dithionite, 2487
 Castañer, J. see Ballester, M. 2121
 Castedo, L. see Boente, J.M. 2029, 2295, 2303, 4481
 Castedo, L., Guitian, E., Saá, C., Suau, R. and Saá, J.M. Regioselectivity in the [4+2] cycloaddition of benzyne. Synthesis of 11-substituted aporphines, 2107
 Castedo, L. see Sardina, F.J. 4477
 Castedo, L., Saá, J.M., Suau, R. and Tojo, G. The total synthesis of cannithrene-2, 5419
 Castellan, A., Daney, M., Desvergne, J.-P., Riffaud, M.-H. and Bouas-Laurent, H. Synthesis of new macrocyclic polyoxa[X,X] and [X](9,10)-anthracenophanes from 9,10-bistrimethylsiloxyanthracene, 5215
 Caster, K.C. and Quin, L.D. Evidence for pentaalkylphosphorane intermediates in the reaction of dienes at the bridging phosphorus in P-methylphosphole dimers, 5831
 Castro, B. see Martinez, J. 5219
 Casutt, M. see Rosenmund, P. 1771
 Catalan, C.A.N. and Djerassi, C. Chemical proof of absolute configuration of 24,26-cyclocholesterol by biomimetic conversion to 27-norergostenes, 3461
 Catellani, M., Chiusoli, G.P. and Peloso, C. A new catalytic process based on sequential insertion of strained olefins and carbon monoxide into Pd-C bonds, 813
 Catellani, M. and Chiusoli, G.P. Catalytic synthesis of 3,3-disubstituted tricyclo[3.2.1.0^{2,4}]octanes, 4493
 Caton, M.P.L. see Ansell, M.F. 3017
 Cava, M.P. see Rawal, V.H. 5581
 Cavalla, D. and Warren, S. Regio- and stereospecific synthesis of N-allyl amides by the Horner-Wittig reaction, 295
 Cazeau, P. see Duboudin, F. 4335
 Cazianis, C.T. see Screttas, C.G. 3287
 Cebulska, Z. see Bartnik, R. 4197
 Cech, D. see Rosenthal, A. 1691
 Čefelin, P. see Janout, V. 2913
 Cerè, V., Paolucci, C., Pollicino, S., Sandri, E. and Fava, A. Kinetic versus thermodynamic acidity of α -sulphonium protons, 839
 Cha, J.K. see Kruse, L.I. 2367
 Cha, J.K., Christ, W.J. and Kishi, Y. On stereochemistry of osmium tetroxide oxidation of allylic alcohol systems: Empirical rule, 3943
 Cha, J.K. see Christ, W.J. 3947
 Chabala, J.C. see Mrozik, H. 5333
 Chacos, N. see Manna, S. 33
 Chaki, H. see Inage, M. 2011
 Chakraborty, P.K. see Ali, E. 2497
 Chan, T.H. and Lee, S.D. Unexpected site selectivity in the reaction of halotrimethylsilanol with 2,5-dimethoxytetrahydrofuran and 2,6-dimethoxytetrahydropyran, 1225
 Chan, T.H. see Lee, S.D. 1569
 Chan, T.H. see Wang, D. 1573
 Chan, T.H. and Kang, G.J. Cycloaromatization reaction of enamines, 3051
 Chan, T.H. and Kang, G.J. Stereochemistry of compounds related to torus. Enantiomerism, 3187
 Chan, T.H. see Harpp, D.N. 5173
 Chandler, M., Parsons, P.J. and Mincione, E. Organoiron complexes in organic synthesis. A facile TMS mediated decarboxylation of organoiron complexes, 5781
 Chandler, S.J. see Balasuriya, R. 1385
 Chang, S. see Srivastava, S. 2431
 Chang, T.C.T. and Rosenblum, M. Cationic enol ether-iron complexes as vinyl cation equivalents. Synthesis of protolicosterinic ester, 695
 Chantegrel, B., Nadi, A.I. and

- Gelin, S. 4-Oxo-*1H*-and-*2H*-[1] benzopyrano[4,3-*c*]pyrazoles. Preparation from 4-hydroxy-coumarin or 3-chromonecarboxylic acid derivatives, 381
- Chapman, D. see Majetich, G. 1909
- Chapuis, C. see Oppolzer, W. 4665
- Charles, G. see Hapnang, H. 1597, 3233
- Charles, G. see Bisbeck, P. 4223
- Charubala, R. see Trichtinger, T. 711
- Chatani, N., Yamasaki, Y., Murai, S. and Sonoda, N. A new entry to π -allylcobalt tricarbonyls using $(\text{CH}_3)_3\text{SiCo}(\text{CO})_4$, 5649
- Chatterjee, S. see Negishi, E. 1341, 5181
- Chattopadhyay, S. see Fajardo, V. 155
- Chauvin, J. see Duhamel, L. 2095
- Che, C., Cordell, G.A., Fong, H.H.S. and Evans, C.A. Aristolindiquinone – a new naphthoquinone from *Aristolochia indica* L. (Aristolochiaceae), 1333
- Chen, C.-C. see Fox, M.A. 547
- Chen, C.-W. see Beak, P. 2945
- Chen, M.H.M. see Martin, A.S. 4063
- Chen, S.F., Kumar, S.D. and Tishler, M. The synthesis of D,L-phosphotryptophan, 5461
- Chen, S.-Y. and Joullie, M.M. The use of D-ribonolactone in organic synthesis. I. Total synthesis of (-)-litesnolides C₁ and C₂, 5027
- Chen, Y.C., Huesmann, P.L. and Mariano, P.S. Mechanistic and synthetic aspects of the acid-catalyzed amino-Claissen rearrangement of N-(β -ketovinyl)isoquinuclides, 1021
- Chen, Y.-Y. see Padwa, A. 3447
- Chenard, L.K. see Savino, T.G. 4055
- Chenchiah, P.C. see Ramadas, S.R. 5403
- Cheng, C.S. see Beylin, V.G. 4793
- Cheng, M.T. see Rinehart, K.L., Jr. 1593
- Chhaya, P., Nimbalkar, M. and Hosangadi, B. Photochemical reactions of benzohydroxamic acids, 5551
- Chiang, Y.-C.P. see Moss, R.A. 2615
- Chiaroni, A. see Beauhaire, J. 4417
- Chiusoli, G.P. see Catellani, M. 813, 4493
- Chizov, O.S. see Klimko, Y.E. 3259
- Choi, H.-D. see Ishibashi, H. 3877
- Chou, T.-S. and Huang, S.-B. Non-Wittig type reaction of Tebbe reagent with acyl chloride, 2169
- Choukroun, R. see Blandy, C. 4189
- Chow, T.J. see Wilson, R.M. 4635
- Chowdhury, P.K., Sharma, R.P. and Baruah, J.N. A new method for deprotection of methylthiomethyl ethers, 4485
- Chowdhury, P.K., Sharma, R.P. and Baruah, J.N. Photocyclisation of a heliangolide – a cyclodecadienone, 5429
- Chrisam, G. see Balcar, J. 1481
- Christ, J. see Quast, H. 5595
- Christ, W.J. see Cha, J.K. 3943
- Christ, W.J., Cha, J.K. and Kishi, Y. On stereochemistry of osmium tetroxide oxidation of allylic alcohol systems: Examples, 3947
- Christensen, J.A., Engelstoft, M., Schaumburg, K., Schou, H. and Watjen, F. On the formation of the 1-aza-[3.1.1]-bicycloheptane ring system, 5151
- Christiaens, L. see Evers, M. 377
- Christiaens, L. see Mbuyi, M. 5873
- Christl, M., Lanzendörfer, U., Peters, K., Peters, E.-M. und Von Schnerring, H.G. Die Reaktionen von 2,5-Diaryl-1,3,4-oxadiazin-6-onen mit *trans*-cycloocten, *cis*, *trans*-cyclooctadien und Cyclopropenes, 353
- Christodoulou, C. and Reese, C.B. Dealkylation of nucleoside arylmethyl 2-chlorophenyl phosphates: The 2,4-dinitrobenzyl protecting group, 951
- Chu, D.T.W. and Lester, D. Stereospecific and non-hazardous syntheses of *cis* and *trans*-3-phenoxy-acetamido-4-(2-acetoxy-1,1-dimethylethyl)-azetidin-2-ones – key intermediates for the synthesis of 6-amido-1,1 dimethylcarbapen-2-ems, 135
- Chu, D.T.W., Hengeveld, J.E. and Lester, D. Total synthesis of *cis*-6-methoxy-1,1-dimethylcarbapen-2-em, 139
- Chu, I.-S. see Warner, P. 4165
- Chulia, A.J. see Kaoudji, M. 4677
- Chung, S.K., Shankaranarayanan, R. and Scott, A.I. Synthesis of 1-(1-D-carboxy-2-methylpropyl)-3-L-(5-L-amino adipamido)-4-L-mercapto-azetidin-2-one (seco-isopenicillin N), a potential intermediate in penicillin biosynthesis, 2941
- Chwang, T.L., Williams, R.D. and Schieber, J.E. Synthesis of 2'-O-nitro-9- β -D-arabinofuranosyladenine and 2'-O-nitro-9- β -D-arabinofuranosylhypoxanthine, 3183
- Cichowicz, M.B. see Schuda, P.F. 3829
- Cieslinski, L.B. see Perchonock, C.D. 2457
- Cimino, G. see Caristi, C. 2685, 3682
- Cimino, G., De Rosa, S., De Stefano, S., Self, R. and Sodano, G. The bromo-compounds of the true sponge *Verongia aerophoba*, 3029
- Claesson, A., Quader, A. and Sahlberg, C. Allenes and acetylenes XXVI. Organocuprate reactions of 1,3-alkadien-2-yl phosphates. A new approach to the synthesis of allenes, 1297
- Claesson, A. see Sahlberg, C. 5137
- Clardy, J. see González, A.G. 1075
- Clardy, J. see Liu, J.-S. 2351
- Clardy, J. see Martin, A.S. 4063
- Clardy, J. see Pearson, A.J. 5827
- Clark, J.H., Goodall, D.M. and White, M.S. Hydrogen bonding in organic synthesis. Evidence for the role of hydrogen bonding in reactions of fluorene promoted by fluoride ion, 1097
- Clark, T. see Wilhelm, D. 3985
- Clegg, W. see Fitjer, L. 5351
- Cleannan, E. L. and L'Esperance, R.P. The addition of singlet oxygen to alkoxy and trimethylsiloxybutadienes. The synthesis of novel new peroxides, 4291
- Clezy, P.S. see Lu, Y. 2433
- Clive, D.L.J. see Anderson, P.C. 1373
- Crieohl, E. see Kost, H.-P. 3975
- Coburn, C.E. see Anderson, D.K. 1329
- Cofino, W.P. see Turkenburg, L.A.M. 1821
- Coggiola, D. see Bernardi, R. 5019
- Cohen, L.A. see Phillips, R.S. 5555
- Cohen, T. and Bhupathy, M. A one-flask, high-yield, stereoselective synthesis of racemic *endo*-brevicomarin, 4163
- Cole, E.R. see Bestre, R.D. 3891
- Coleman, D.T. see Ashby, E.C. 851
- Coll, J. see Camps, F. 3387
- Collado, I.G. see Massanet, G.M. 1641
- Collington, E.W., Finch, H. and Wallis, C.J. Stereoselective synthesis of a 13-azaprostanacyclin methyl ester, 3121
- Collington, E.W., Wallis, C.J. and Waterhouse, I. A novel synthesis of (\pm)-prostaglandin D₂, 3125
- Collins, P. see Pelter, A. 523
- Colvein, E.W. see Bremner, J.A.S. 3783
- Combarieu, R. see Aubagnac, J.L. 2263
- Comins, D.L., Abdullah, A.H. and

- Smith, R.K.** Intramolecular Diels-Alder reactions of 2-alkenyl-1,2-dihydropyridines. An approach to the synthesis of the *cis*-decahydroquinoline ring system, 2711
- Comins, D.L.** α -Metalation of 1-(*tert*-butoxycarbonyl)-1,4-dihydropyridines, 2807
- Comins, D.L.** and **Mantlo, N.B.** Synthesis of 3-acylpyridines utilizing a Friedel-Crafts reaction, 3683
- Comins, D.L.** and **Brown, J.D.** Ortho metalation directed by α -amino alkoxides. An improved synthesis of ortho-substituted aryl ketones, 5465
- Commercon, A.** et **Ponsinet, G.** Synthèse de méthylène-3 azétidinones-2 par transfert de phase solide/liquide et préparation de leurs analogues thioxo, 3725
- Commeyras, A.** see **Sola, R.** 1501
- Compagnini, A.** see **Caramella, P.** 4377
- Confalone, P.N.**, **Hie, E.M.** and **Patel, N.G.** The isolation, structure determination, and synthesis of pluridone, a novel insecticide from *Aloe pluridens*, 5563
- Connolly, J.D.** see **Huneck, S.** 115, 3787
- Contreras, R.** see **Santlesteban, F.** 759
- Cook, M.D.**, **Ng, L.L.** and **Roberts, B.P.** Spin-trapping of α -aziodoalkyl radicals, 3761
- Cook, M.D.** see **Bamford, A.F.** 3779
- Cook, M.J.** see **Balasuriya, R.** 1385
- Cooke, M.D.**, **Moore, K.W.**, **Ross, B.C.** and **Turner, S.E.** Synthesis of 2-methoxy- and 2-phenoxyenems, 3373
- Cooksey, C.J.** see **Anderson, J.E.** 1077
- Corallo, G.P.** see **Dell'erba, C.** 1191
- Corbett, D.F.**, **Coulton, S.** and **Southgate, R.** Chemical modification of the olivanic acids: Synthesis of substituted 6-[1-(1,2,3-triazol-1-yl)ethyl] carbapenem derivatives, 5543
- Cordell, G.A.** see **Che, C.** 1333
- Corey, E.J.**, **Iguchi, S.**, **Albright, J.O.** and **De, B.** Studies on the conformational mobility of arachidonic acid. Facile macrolactonization of 20-hydroxyarachidonic acid, 37
- Corey, E.J.** and **Shimoji, K.** Magnesium and zinc-catalyzed thioketalization, 169
- Corey, E.J.**, **Kantner, S.S.** and **Lansbury, P.T., Jr.** Irreversible inhibition of the leukotriene pathway by 4,5-dehydroarachidonic acid, 265
- Corey, E.J.** and **Pyne, S.G.** Conversion of ketones having δ , ϵ - π -functions to cyclopentanols by zinc-trimethyl-chlorosilane, 2821
- Corey, E.J.** and **Eckrich, T.M.** A new and simple synthesis of alkoxy- and aryloxymethylolithium reagents (ROCH_2Li), 3163
- Corey, E.J.** and **Eckrich, T.M.** t-butoxymethylolithium: Direct preparation from t-butyl methyl ether and applications as a hydroxymethyl anion equivalent, 3165
- Corey, E.J.**, **Schmidt, G.** and **Shimoji, K.** Formation of α,β -epoxy systems from β -peroxy carbon free radicals, 3169
- Corey, E.J.**, **Pyne, S.G.** and **Schafer, A.I.** Synthesis of a new series of potent inhibitors of thromboxane A₂ biosynthesis, 3291
- Corey, E.J.**, **Pyne, S.G.** and **Su, W.** Total synthesis of leukotriene B₅, 4883
- Corey, E.J.**, **Kang, J.**, **Laguzza, B.C.** and **Jones, R.L.** Total synthesis of 12-(S)-10-hydroxy-*trans*-11,12-epoxyeucosa-5,9-14(Z)-trienoic acids, metabolites of arachidonic acid in mammalian blood platelets, 4913
- Corey, E.J.**, **Mehrotra, M.M.** and **Cashman, J.R.** New synthetic routes to leukotrienes and other arachidonate derived epoxy eicosatetraenoic acids (EPETEs). Exclusion of the hydroxy epoxide pathway for leukotriene biosynthesis, 4917
- Corey, E.J.** and **Mehrotra, M.M.** Stereochemistry of the lipoygenase-catalyzed allylic hydroperoxide - oxiranyl-carbinol rearrangement, 4921
- Corey, E.J.** and **Raju, N.** A new general synthetic route to bridged carboxylic ortho esters, 5571
- Corezzi, S.** see **De Sarlo, F.** 1815
- Cornélis, A.**, **Depaye, N.**, **Gerstmans, A.** and **Laszlo, P.** Clay-supported reagents IV. A novel coupling of thiols into disulphides, via thionitrite intermediates using a clay-supported nitrosation reagent, 3103
- Cornish, C.A.** and **Warren, S.** Stereocontrolled synthesis of γ,δ -unsaturated ketones by the Horner-Wittig reaction, 2603
- Corral, R.A.**, **Orazi, O.O.** and **Autino, J.C.** Total synthesis of phenolic Balfourodendron alkaloids, 2359
- Corriu, R.J.P.**, **Lanneau, G.F.** and **Leclercq, D.** Silicon-phosphorus analogies. Rate controlling factors in S_N2(P) reactions: influence of the nucleophile for a given stereochemistry, 4323
- Corsaro, A.** see **Caramella, P.** 4377
- Cossec, B.** see **Bakgrowicz, J.A.** 3721
- Cossement, M.**, **Marchand-Brynaert, J.**, **Bogdan, S.** and **Ghosez, L.A.** A general route toward 2-oxo-, 2-thioxo- and 2-iminopenams and their conversion into 2-alkoxy-, 2-alkylthio- and 2-aminopenams, 2563
- Cottin, M.** see **Picq, D.** 1399
- Cottrell, D.A.** see **Kochhar, K.S.** 1323
- Coulton, S.** see **Corbett, D.F.** 5543
- Couret, C.** see **Escudie, J.** 3625
- Couret, C.**, **Escudie, J.**, **Madaule, Y.**, **Ranaivonjatovo, H.** et **Wolf, J.-G.** Le premier diarsène stable: Le bis [tris(triméthylsilyl)méthyl]diarsène, 2769
- Cousseau, J.** see **Giddard, M.** 5085
- Coward, J.K.** see **Pontoni, G.** 151
- Coward, J.K.** see **Lashmet, P.R.** 1121
- Cowe, H.J.** see **Alpertunga, B.** 4461
- Cox, D.P.**, **Gould, I.R.**, **Hacker, N.P.**, **Moss, R.A.** and **Turro, N.J.** Absolute rate constants for the additions of halophenylcarbenes to alkenes; a reactivity-selectivity relation, 5313
- Cox, P.J.** see **Alpertunga, B.** 4461
- Coxon, J.M.** see **Battiste, M.A.** 307
- Coxon, J.M.**, **Simpson, G.W.**, **Steel, P.J.** and **Trenerry, V.C.** The stereochemistry of the product homoallylic alcohols from a modified Grignard reaction of 3-phenylpropen-1-yl chloride and benzaldehyde, 1427
- Coyle, J.D.** see **Bryant, L.R.B.** 1841
- Crabtree, R.H.** see **Anton, D.R.** 2449
- Cramer, F.** see **Schröder, F.R.** 3571
- Crank, G.** and **Makin, M.I.H.** Organic chemistry of superoxide. II. Oxidation of β -naphthylamine - possible involvement of the hydroxyl radical, 3159
- Crank, G.** see **Bestre, R.D.** 3891
- Crea, A.** see **Spur, B.** 1755, 2135
- Crews, E.** see **Caine, D.** 2083
- Crich, D.** see **Barton, D.H.R.** 4979
- Crimmins, M.T.** and **Bankaitis, D.M.** Addition of 1-methoxy-1-butene-3-yne to lactones: Synthesis of substituted spiroketals, 4551
- Crimmins, M.T.** and **Bankaitis, D.M.** Synthesis of 2-alkyl-2,3-dihydropyrones from 1-methoxy-1-butene-

- 3-yne, 5303
- Cristol, S.J.** and **Ali, M.Z.** Photochemical transformations, 36.
- Intramolecular electron transfer from photoexcited benzene rings to carbon–mercury bonds. Stereochimical fate of Zwitterionic biradicals leading to Wagner-Meerwein rearranged products, 5839
- Croft, A.P.** and **Bartsch, R.A.** Comparison of syn dehydrohalogenations from *trans*-1-bromo-2-chlorocycloalkanes promoted by complex base and by potassium *tert*-butoxide, 2737
- Croisy-Delcey, M.** see **Yagi, H.** 1349
- Croker, S.J., Loeffler, R.S.T., Smith, T.A.** and **Sessions, R.B.** 1,5-diazabicyclo[4.3.0]nonane, the oxidation product of spermine, 1559
- Crombie, L., Combie, W.M.L., Palmer, C.J.** and **Jamieson, S.V.** Tetrahydrocannabinols by terpenylation of olivetol with (\pm)-*trans*-2- and -3-carene epoxides, 3129
- Crombie, W.M.L.** see **Crombie, L.** 3129
- Croteau, A.A.** and **Termini, J.** A convenient route to α,β -unsaturated methyl ketones application to retinal analogue synthesis, 2481
- Crouch, R.C., Bhatia, A.V.** and **Lever, O.W., Jr.** Solution conformations of the 6 α and 6 β epimers of oxy-morphamine, 4801
- Cruse, W.B.T.** see **Jefford, C.W.** 181
- Cuadros, R.** see **Boente, J.M.** 2029, 2303
- Cullis, P.M.** The stereospecific conversion of P-chiral dialkyl phosphorothioates into [^{18}O]-phosphates, 5677
- Cum, G.** see **Caia, V.** 3903
- Cunningham, A.F., Jr.** see **Dauben, W.G.** 5709
- Curran, D.P.** and **Singleton, D.H.** Reduction of Δ^2 -isoxazolines-2. A facile synthesis of 3(2H)-furanones, 2079
- Curran, D.P.** A short synthesis of γ -hydroxycyclopentenones, 3443
- Cutolo, M., Fiandanese, V., Naso, F.** and **Sciacovelli, O.** Synthesis of dehydrophenylalanine derivatives by palladium catalyzed arylation of 2-acetamidoacrylic acid, 4603
- Cutting, I.** and **Parsons, P.J.** New transformations of substituted allene sulphoxides, 4463
- Cuvigny, T., Hervé du Penhoat, C.** and **Julia, M.** Synthesis with sulphones (n° XXX): Stereoselective synthesis of arene-sulfonyl-1,3-dienes, 4315
- Cuvigny, T., Fabre, J.L., Hervé du Penhoat, C.** and **Julia, M.** Synthesis with sulphones (n° XXXI): The stereospecific reduction of 2-benzencesulfonyl-1,3-dienes to conjugated Z,E-dienes. Synthesis of (9Z,11E)-9,11-tetradecadienyl acetate, 4319
- Cweiber, B.** see **Magdzinski, L.** 5823
- Cyon, R.** see **Becker, D.** 5505
- Czech, A.** see **Czech, B.** 1327
- Czech, B., Kang, S.I.** and **Bartsch, R.A.** New Lipophilic ionizable crown ethers, 457
- Czech, B., Czech, A.** and **Bartsch, R.A.** Synthesis of hydroxymethyl-21-crown-7 and hydroxymethyl-24-crown-8, 1327
- Czech, B., Son, B.** and **Bartsch, R.A.** Novel lipophilic crown carboxylic acids, 2923
- Czyzewska, E.** see **Oehlschlager, A.C.** 5587
- Dabrowski, M.** see **Jończyk, A.** 1065
- Dagne, E.** and **Steglich, W.** Erymelandine, a new type of *Erythrina* alkaloid containing a 16-azaerythrinane skeleton, 5067
- Dahl, O.** see **Angelov, C.M.** 1643
- Dalavoy, V.S.** see **Shitole, H.R.** 4739
- Daly, C.M., Iddon, B., Suschitzky, H., Jordis, U.** and **Sauter, F.** Synthesis of novel 8*H*-thieno[2,3-*d*]azepines by photolysis of 6-azido-2,3-dihydrobenzo[*b*]thiophen, 5147
- Daly, J.J.** see **Arnold, W.** 343
- Daly, J.M.** see **Kono, Y.** 3803
- Daney, M.** see **Castellan, A.** 5215
- d'Angeli, F.** see **Scrimin, P.** 4473
- d'Angelo, J.** see **Ficini, J.** 375, 907
- d'Angelo, J.** see **Maddaluno, J.** 895
- d'Angelo, J.** see **Revial, G.** 899
- d'Angelo, J.** et **Pecquet-Dumas, F.** Aldolisations stéréosélectives en série β -lactame contrôlées simultanées de trois centres asymétriques par les énolate de zirconium, 1403
- d'Angelo, J., Ortuno, R.-M., Brault, J.-F., Ficini, J., Riche, C.** et **Bouchaudy, J.-F.** Additions photochimiques stéréosélectives de méthanol sur les carboxy-4 tétrahydro 3a,4,5,6 indanones-1, 1489
- d'Angelo, J.** et **Revial, G.** Synthèse de l'acide *cis* chrysanthémique, 2103
- d'Angelo, J., Pagès, O., Maddaluno, J., Dumas, F.** and **Revial, G.** Utilisation d'alkoxyacétates chiraux – équivalents de l'hydroxyacétaldéhyde – en aldolisation stéréocontrôlée – Approche enantio et diastéréosélective de polyols vicinaux, 5869
- Danheiser, R.L.** and **Sard, H.** The regiochemical course of [2 + 2] cycloadditions of dichloroketene with vinyl- and alkynylsilanes, 23
- Danieli, B., Fiori, G., Lesma, G.** and **Palmisano, G.** On the alleged electrochemical methoxylation of ergolines, 819
- Danishefsky, S., Taniyama, E.** and **Webb, R.R.** Tetrahydropyridones via intramolecular ureidomercuration, 11
- Danishefsky, S.** and **Taniyama, E.** Cyclizations of mercury and palladium substituted acrylanilides, 15
- Danishefsky, S.** see **Webb, R.R.** 1357
- Danishefsky, S.** see **Bednarski, M.** 3451
- Danko, S.J.** see **Kono, Y.** 3803
- see **Tamblyn, W.H.** 4955**
- Dashan, L.** and **Trippett, S.** The *ortho*-lithiation of N,N,N',N'-tetramethylphenylphosphonic diamide, 2039
- Dastidar, G.** see **Pakrashi, S.C.** 291
- Date, T.** see **Ohnuma, T.** 4249
- Daub, G.W.** and **Lunt, S.R.** Ketal Claisen rearrangements of functionalized ketals, 4397
- Dauben, W.G.** and **Gerdes, J.M.** Organic reactions at high pressure. Michael addition of activated acyclic donors with β,β -disubstituted enone acceptors, 3841
- Dauben, W.G.** see **Bunce, R.A.** 4943
- Dauben, W.G., Bunce, R.A., Gerdes, J.M., Henegar, K.E., Cunningham, A.F., Jr.** and **Ottoboni, T.B.** Organic reactions at high pressure. A mild method for the placement of protecting groups on hindered and sensitive alcohols, 5709
- David, S.** see **Auge, J.** 4009
- Davidson, A.H.** see **Batmangherlich, S.** 2889
- Davidson, R.S.** see **Beecroft, R.A.** 5673
- Davidson, R.S.** and **Pratt, J.E.** The titanium dioxide sensitised photooxidation of sulphides, 5903
- Davidson, R.S., Patel, A.M., Saifdar, A.** and **Thornthwaite, D.** The application of ultrasound to the N-alkylation of amines using phase transfer catalysis, 5907

- Davies, A.G., Hawari, J.A.-A. and Whitefield, M. Generation and E.S.R. spectrum of the 1,8-dihydroxy-9-anthon-10-yl radical, 4465
- Davies, A.P. see Aneja, R. 4641
- Davies, D.T., Jones, P.S. and Sutherland, J.K. A second synthesis of 7,9-bisdeoxycarmominomycinone from 5-hydroxyquinizarin, 519
- Davies, H.M.L. see Taylor, E.C. 5453
- Davis, F.A., Stringer, O.D. and Billmers, J.M. Oxidation of selenides to selenoxides using 2-sulfonyloxaziridines, 1213
- Davis, F.A., Billmers, J.M. and Stringer, O.D. First synthesis of simple optically active selenoxides, 3191
- Dax, K. see Albert, R. 1763
- De, B. see Corey, E.J. 37
- De Abreu, P.M. see Lobo, A.M. 2205
- Dean, F.M. and Jones, M.A. The acid-catalysed ring contraction of tetrahydro-1-benzoxepin-3-ol to 2-hydroxymethylchroman derivatives, 2495
- De Bernardi, M., Fronza, G., Gianotti, M.P., Mellero, G., Vidari, G. and Vita-Finzi, P. Fungal metabolites XIII: New cytotoxic triterpene from Hebelome species (Basidiomycetes), 1635
- De Buyck, L. see De Kimpe, N. 2885
- De Carvalho, M.-E. and Meunier, B. Stereochemical arguments against a possible chlorohydrin route in the catalytic epoxidation of olefins with NaOCl/Mn-porphyrins, 3621
- De Cian, A. see Franck-Neumann, M. 1611
- Decker, O.H.W. see Kurth, M.J. 4535
- DeClercq, J.P. see Le Clef, B. 1035
- De Clercq, P.J. see van Royen, L.A. 3145
- De Jong, R.L.P. see Kulik, W. 2203
- De Kimpe, N., Verhé, R., De Buyck, L., Sulmon, P. and Schamp, N. 1,3-dehydrohalogenation of α -haloketimines as a synthetic tool for the generation of geminally functionalized cyclopropanes, 2885
- De Koning, H. see Ent, H. 2109
- De La Fuente, G. see González, A.G. 959
- De La Fuente, G. see González, A.G. 3765
- Delaunay, B. see Montero, J.-L. 3091
- Delbecq, F. and Lefour, J.M. Anomeric effect and radical stability, 3613
- De Lera, A.R. see Boente, J.M. 2295, 2303
- Dell, A. see Wendenbaum, S. 4877
- Dell'erba, C., Novi, M., Garbarino, G. and Corallo, G.P. Kinetic resolution of racemic sulphilimines by enantioselective reduction with arenethiols catalyzed by chiral amines, 1191
- Delmas, M. see Le Bigot, Y. 193
- Delpuech, J.-J. see Gartiser, T. 1609
- De Luca, G., Pizzabiocca, A. and Renzi, G. Reaction of diphenyl disulphide with 1,8-dehydro-naphthalene, 821
- DeLuca, O.D. see Tamblyn, W.H. 4955
- DeLucca, G. and Paquette, L.A. Solvolytic behavior of silicon-substituted cyclopropylcarbinyl trifluoroacetates, 4931
- De Lucchi, O. and Modena, G. Dienophilic reactivity of trans-1,2-bis(phenylsulphonyl)ethylene: A valid alternative to maleic anhydride, 1653
- De Lucchi, O. see Adam, W. 5727
- Demain, A.L. see Büchi, G. 2527
- Demange, P. see Wendenbaum, S. 4877
- De Meijere, A. see Erden, I. 3811
- De Meijere, A. see Butenschön, H. 4563
- De Mesmaeker, A. see Merényi, R. 2765
- Den-David, Y. see Ghera, E. 3533
- Denis, J.N. see Schauder, J.R. 1657
- Deodhar, V.B. see Shitole, H.R. 4739
- Depaye, N. see Cornélis, A. 3103
- DePriest, R.N. see Ashby, E.C. 2825
- De Rosa, S. see Cimino, G. 3029
- De Ruiter, G.M.J. see Timmermans, P.J.J.A. 1419
- des Abbayes, H. see Tanguy, G. 4005
- De Sarlo, F., Brandi, A., Guarna, A., Goti, A. and Corezzi, S. Simple in situ preparation of fulminic acid, 1815
- Deschamps-Vallet, C., Ilotse, J.-B. et Meyer-Dayan, M. Transformation du cation isoflavylum en phényl-3 coumarines, isoflavenes-3 et isoflavannes, 3993
- Deshayes, C. and Gelin, S. Photocyclization of 5-(1-alkenyl)-1-phenylpyrazoles: a convenient synthesis of 4,5-dihydropyrazolo [1,5- α]quinolines, 4679
- De Silva, D. see Reid, S.T. 1949
- Deshpande, V.H. see Rao, A.V.R. 3013
- Desmaële, D. see Ficini, J. 1025
- Desmaële, D., Ficini, J., Guingant, A. et Kahn, Ph. Influence de la substitution en 1 sur le stéréoselectivité de l'hydrolyse de N,N diethylamino-7 dialkyl-1,6 bicyclo (3,2,0) heptene-6 ones-2 – une nouvelle voie d'accès au contrôle des centres C₁₇ et C₂₀ de stéroïdes, 3079
- Desmaële, D., Ficini, J., Guingant, A. et Touzin, A.M. Synthèse totale et stéréosélective du p. tolylsulfonylméthyl-8 des-AB-cholestène-8, 3083
- Desmond, R. see Majetich, G. 1913
- Despeyroux, B. see Alper, H. 5691
- De Stefano, S. see Cimino, G. 3029
- Desvergne, J.-P. see Castellan, A. 5215
- Detty, M.R. see Bender, S.O. 237
- Detty, M.R., Murray, B.J. and Perlstein, J.H. Conducting salts of (telluropyranyl) telluropyrans, 539
- Deutsch, E.A. and Snider, B.B. Synthesis of the hexahydronaphthalene moiety of (+)-mevinolin, 3701
- Devani, M.B. see Shishoo, C.J. 4611
- Devienne, F.M. see Aubagnac, J.L. 2263
- De Vos, M.J. and Krief, A. Enantioselective synthesis of chiral caronic esters: Application to the syntheses of (1*R*)-trans-chrysanthemic acid and its (1*R*)-*cis*-dibromo vinyl analogue from dimethyl fumarates, 103
- De Wolf, W.H. see Turkenburg, L.A.M. 1817, 1821
- DeWynter, G. see Montero, J.-L. 3091
- Déziel, R. see Gravel, D. 699
- Dhaneshwar, N.N. see Rao, A.V.R. 3013
- Dhaon, M.K. see Rich, D.H. 1671
- Diab, Y. see Alvernhe, G. 1153
- Diaz, R. see González, A.G. 959
- Dietrich-Buchecker, C.O. et Sauvage, J.P. Synthèse de composés polyethers macrocycliques dérivés de la phénanthroline-1,10 diphényl-2,9, 5091
- Dietrich-Buchecker, C.O., Sauvage, J.P. et Kintzinger, J.P. Une nouvelle famille de molécules: Les métallo-caténanes, 5095
- Di Giambardino, T., Halazy, S., Dumont, W. and Krief, A. Allylselenides possessing a terminal double bond. First regioselective synthesis and reactions, 3413
- Dillon, J.L., Jr. see Hassner, A. 1135
- Di Novi, M., Trainor, D.A., Nakanishi, K., Sanduja, R. and Alam, M. The structure of PB-1, an unusual

- toxin isolated from the red tide Dinoflagellate *Ptychodiscus brevis*, 855
- Di Nunno, L. see Babudri, F. 3883
- Dion, R.P. see Wasserman, H.H. 3409
- DiPardo, R.M. and Bock, M.G. (2S, 3S, 4R)-4-amino-3-hydroxy-2-methylpentanoic acid. Enantioselective synthesis of an amino acid constituent of bleomycin, 4805
- Disch, R.L., Sabio, M.L. and Schulman, J.M. Borepin and its valence isomers, 1863
- Dittami, J.P. see Schultz, A.G. 1369
- Divakaran, P.P. see Pradhan, S.K. 5017
- Djerassi, C. see Bonini, C. 277
- Djerassi, C. see Li, X. 665
- Djerassi, C. see Ayanoglu, E. 1111
- Djerassi, C. see Lu, Y. 2433
- Djerassi, C. see Catalan, C.A.N. 3461
- Do, M.N. and Erickson, K.L. Branched chain mono-glycerol ethers from a Taiwanese marine sponge of the genus *Aaptos*, 5699
- Dobashi, A. and Hara, S. Chiral recognition of amino acid enantiomers applying association models of amino acid derivatives forming intermolecular hydrogen bonds, 1509
- Dojo, H. see Hara, S. 731
- Dolbier, W.R., Jr. and Burkholder, C.R. The thermal isomerization of 2-fluoro-1-methylenecyclopropane, 1217
- Dolbier, W.R., Jr. and Al-Fekri, D.M. The thermal deazetation of 6,6,7,7-tetrafluoro-2,3-diazabicyclo[3.2.0]hept-2-ene, 4047
- Dominguez, D. see Boente, J.M. 4481
- Dominguez, J.N. see Adams, D.R. 517
- Dominguez, X.A. see González, A.G. 3033
- Donati, D. see Adembri, G. 5399
- Dondoni, A. see Medici, A. 2901
- Döpp, D. and Libera, H. Cycloadditions with captodative olefins, II tetrahydrothiophenes from addition of 2-(tert-butylthio)-acrylonitrile to dienophiles, 885
- Dordor, I.M., Mellor, J.M. and Kennewell, P.D. Reaction of oxazolines with phosphorus oxychloride, 1437
- Dormond, A., Bouadili, A. et Moise, C. Synthèse d'un ligand cyclo-
- pentadiényle pentaalkyle optiquement actif. Applications en chimie organometallique, 3087
- Dorsch, D. see Helmchen, G. 3213
- Douglass, J.G. see Garst, M.E. 1675
- Doyama, K., Hama, F., Sakata, Y. and Misumi, S. Synthesis and unusual reaction of (1,3)pyrimidino(6,9)purinophanes, 5253
- Doyle, T.W. see Kaneko, T. 5165
- Drake, A.F. see Ansell, M.F. 3017
- Drautz, H. see Werner, G. 5193
- Drayer, J.-L., Alazard, J.-P. et Thal, C. Synthèse de cyclopenta [C] tetrahydropyridines, précurseur d'alcaloïdes monoterpéniques, 4193
- Dreiding, A.S. see Huguet, J. 4177
- Dreiding, A.S. see Jackson, D.A. 4817
- Dreyer, G.B. see Wender, P.A. 4543
- Duartz, H.C. see Kascheres, A. 1837
- Dubac, J. see Laporterie, A. 3521
- Dubois, J.-E. see Lomas, J.S. 1161
- Dubois, J.E. see Lozach, D. 4213
- Dubois, J.-M., Lion, C. et Dugast, J.-Y. Nouvelles méthodes de deshalogénération et de formation d'ethers d'enol trimethylsilyliques par action de iPr₂NLi sur quelques α-bromocétones, 4207
- Duboudin, F., Cazeau, P., Babot, O. et Moulines, F. Utilisation en synthèse organique de MeSi(CN)₃ préparé *in situ*, 4335
- Duffield, R.M. see Wheeler, J.W. 5811
- Dugast, J.-Y. see Dubois, J.-M. 4207
- Duggan, M.E. and Karanewsky, D.S. Preparation of optically active 2-aminoalkylphosphinic and phosphonic acids, 2935
- Duhamel, L., Chauvin, J. et Goument, C. Dicétones-1,4 thiosubstituées, 2095
- Duhamel, L. and Launay, J.-C. Enantioselectivity in enediol-hydroxyketone tautomerization, 4209
- Duhl-Emswiler, B.A. see Maryanoff, B.E. 2477
- Dulcere, J.-P. see Bertrand, M. 1967
- Dulcere, J.P. see Rodriguez, J. 4423
- Dumas, F. see d'Angelo, J. 5869
- Dumont, W. see Di Giamberardino, T. 3413
- Dunkin, I.R., Shields, C.J., Quast, H. and Seiferling, B. The photolysis of 1-azido-4-methylbicyclo[2.2.2]octane and 1-azidoadamantane in low-temperature matrices, 3887
- Dunkin, I.R., MacDonald, J.G. and Martin, G.S. The photofragmentation of phthalide in low-
- temperature matrices, 4373
- Dunoguès, J. see Babin, P. 3071
- Dunoguès, J. see Bennetau, B. 4217
- Dupre, B. see Martin, S.F. 1337
- Dupuis, J. see Giese, B. 703
- Duri, Z.J. see Fraga, B.M. 1945
- Durman, J., Hunt, P.G. and Warren, S. Alkylation of extended enolates from α-phenylthio crotonate esters, 2113
- Durman, J., Elliott, J., McElroy, A.B. and Warren, S. Regiospecific synthesis of enones via α-(phenylthio)-ketones: 2,5-dimethyl-4-hexen-3-one, E-6-methyl-2-hepten-4-one, E-7-methyl-4-octen-3-one, and ar-turmerone, 3927
- Eaton, G. see Aneja, R. 4641
- Eaton, P.E. see Allinger, N.L. 3697
- Ebizuka, Y. see Xin-Sheng, Y. 2407, 3247
- Echavarren, A. see Kelly, T.R. 2331
- Echrich, T.M. see Corey, E.J. 3163, 3165
- Eckl, E. see Märkl, G. 1955
- Edwards, M. see Mazzocchi, P.H. 143
- Eicher, T., Sebold, U. und Stegmann, U. Zur Reaktionsweise von Cyclopropenonen mit Cyanmethylenphosphoranen, 2977
- Eisch, J.J. and Piotrowski, A. The titanocene methylene-zinc halide complex: A convenient synthesis and its methylenating action on unsaturated carbon centres, 2043
- Eisch, J.J., Aradi, A.A. and Han, K.I. Nickel(O)-mediated hydrocyanation and carbonylation reactions of alkynes with trimethylsilyl(iso)cyanide, 2073
- Eisenbeiss, F. see Seliger, H. 4963
- Eisenstein, O. see Kayser, M.M. 1015
- Eklund, A.-M. see Wahlberg, I. 843
- Ekogha, C.B.B., Ruel, O. and Julia, S.A. Reactivity of the 1-t-butylthio-3-methoxy-1-alkenes towards metalating agents. I. Regioselective deprotonation at either one of the two olefinic sites of the Z-isomers, 4825
- Ekogha, C.B.B. see Ruel, O. 4829
- Ekundayo, O. see Rueffler, M. 2643
- Elango, V. see Fajardo, V. 155
- El-Badawi, M. see Ohler, E. 5599
- El Hallaoui, A. see Bernardini, A. 3717
- Eliel, E.L. see Manoharan, M. 453, 1855
- Eliel, E.L. and Ko, K.-Y. Determin-

- ation of enantiomeric purity of glycols $\text{RCOOHCH}_2\text{OH}$, 3547
- Eliev, S.** see **Kayser, M.M.** 1015
- Elix, J.A.** see **Marcuccio, S.M.** 1445
- Elliott, J.D., Hetmanski, M., Palfreyman, M.N., Purcell, N.** and **Stoodley, R.J.** Synthesis of (\pm) - and $(-)$ -pentenomycin I, 965
- Elliott, J.** see **Durman, J.** 3927
- Ellison, D.K.** and **Iwamoto, R.T.** Synthesis of unsymmetrical 4,4'-dialkyl-2,2'-bipyridines, 31
- Elphimoff-Felkin, I.** and **Sarda, P.** The Clemmensen reduction of enol ethers: Cyclopropyl ethers from mono- and di-methoxy-cyclohexa-1,4-dienes, 4425
- Elsässer, A.** und **Sundermayer, W.** Bis-trifluormethyl-sulfin, $(\text{CF}_3)_2\text{C=SO}$, 2141
- Elyakov, G.B.** see **Kicha, A.A.** 3893
- Elzey, T.K.** see **Phillips, M.L.** 335
- Enda, J.** see **Kuwajima, I.** 1061
- Enders, D.** and **Papadopoulos, K.** Asymmetric synthesis of β -substituted 8-ketoesters via Michael-additions of SAMP/RAMP-hydrazone to α, β -unsaturated esters. Virtually complete 1,6-asymmetric induction, 4967
- Engbergs, J.B.F.N.** see **Hovius, K.** 3137
- Engelstoft, M.** see **Christensen, J.A.** 5151
- Engler, T.A.** and **Shechter, H.** Generation and the ambident character of 9-anthrylmethyl carbanions, 4645
- Enoki, N., Furusaki, A., Suehiro, K., Ishida, R.** and **Matsumoto, T.** Epoxydictymene, a new diterpene from the brown alga *Dictyota dichotoma*, 4341
- Ensley, H.E., Balakrishnan, P.** and **Ugarkar, B.** Reaction of singlet oxygen with β -alkoxyenones, 5189
- Ent, H., de Koning, H.** and **Speckamp, W.C.** The 2-aza-cope *N*-acyliminium cyclization, 2109
- Enzell, C.R.** see **Wahlberg, I.** 843
- Epszajn, J., Bieniek, A., Brzeziński, J.Z.** and **Józwiak, A.** The dual behaviour of *N,N*-dialkylpyridylcarboxylic amides in the reaction with lithium disopropylamide, 4735
- Erden, I.** Competitive dipolar cycloadditions of tetracyanoethylene to bicyclo[3.2.1]octa-2,6-diene, 2047
- Erden, I.** and **Sorenson, E.M.** A convenient synthesis of spiro[3.4]octa-5,7-diene, 2731
- Erden, I.** and **de Meijere, A.** Stereoselectivities of dichloroketene cycloadditions to bridged bicyclic olefins, 3811
- Erickson, K.L.** see **Do, M.N.** 5699
- Ermolenko, M.S.** see **Sviridov, A.F.** 4355, 4358
- Errede, L.A.** see **Vicens, J.** 723
- Escudie, J.** see **Couret, C.** 2769
- Escudie, J., Couret, C., Ranaivonjatovo, H.** and **Wolf, J.-G.** Un dérivé à double liaison phosphore-arsenic: le premier phosphaarsène stable, 3625
- Eskola, P.** see **Mrozik, H.** 5333
- Etter, M.C.** see **Vicens, J.** 723
- Etzrodt, H.** see **Boche, G.** 5477
- Evans, C.A.** see **Che, C.** 1333
- Evans, C.F.** see **Anderson, P.C.** 1373
- Evans, S.A., Jr.** see **Barry, C.N.** 661
- Evers, M.** and **Christiaens, L.** New synthetic methods: Sodium alkane-chalcogenates as demethylating agents. Scope, limitation and new one-pot synthesis of diaryldiselenides, 377
- Evers, M.** see **Mbuyi, M.** 5873
- Extine, M.W.** see **Soffer, M.D.** 1455
- Fabre, J.-L.** and **Julia, M.** Organic synthesis with sulfones n° XXIX
- Stereospecific hydrogenation of vinylic sulfones with grignards and transition metal catalysts (1), 4311
- Fabre, J.L.** see **Cuvigny, T.** 4319
- Fabriás, G.** see **Camps, F.** 3387
- Faith, W.C.** see **Snider, B.B.** 861
- Fajardo, V., Elango, V., Chattopadhyay, S., Jackman, L.M.** and **Shamma, M.** Puntarenine: An unusual isoquinoline alkaloid, 155
- Falck, J.R.** see **Manna, S.** 33
- Falck, J.R.** see **Mioskowski, C.** 5521
- Falck, J.R., Manna, S., Siddhanta, A.K., Capdevila, J.** and **Buynak, J.D.** Transformation of 15-hete to 14,15-dihydroxy-eisatrienoic acid and 11,14,15- and 13,14,15-trihydroxyeicosatrienoic acid, 5715
- Falck, J.R., Manna, S., Capdevila, J.** and **Buynak, J.D.** Synthesis of 14(R),15(S)- and 14(S),15(S)-dihydroxy-5,8-Z-10,12-E-eicosatetraenoic acid, 5719
- Fales, H.M.** see **Jones, T.H.** 5439
- Fallis, A.G.** see **Attah-Poku, S.K.** 677, 681
- Falou, S.** see **Ficini, J.** 375
- Fanghänel, E.** see **Richter, A.M.** 3577
- Fantin, G.** see **Medici, A.** 2901
- Farina, V.** see **McMurry, J.E.** 4653
- Farnum, D.G.** and **Monego, T.** Chelation-controlled stereoselectivity in the alkylolithium cleavage of an allylic ether. The synthesis of *cis,endo*-2,6-*bis*(Hydroxymethyl)bicyclo[3.3.0]-octa-3,7-diene, 1361
- Faulconer, J.M.** see **Leopppky, R.N.** 4271
- Faulkner, D.J.** see **Hochlowski, J.E.** 1917
- Fava, A.** see **Cerè, V.** 839
- Favre-Bonvin, J.** see **Bouillant, M.-L.** 51
- Favre-Bonvin, J.** see **Pittet, J.-L.** 65
- Favre-Bonvin, J.** see **Kaoudji, M.** 5881
- Fayos, J.** see **Boente, J.M.** 2029
- Fayos, J.** see **González, A.G.** 847, 3033, 4143
- Fekaruhobo, G.K.** see **Carless, H.A.J.** 107
- Feldman, K.S.** Photochemical activation of α,β epoxyketones. Formation of benzannelated perhydroazulenes by intramolecular trapping of a reactive intermediate, 5585
- Fenical, W.** see **Sato, A.** 481
- Ferlazzo, A.** see **Caristi, C.** 1285, 2685, 3682
- Feringa, B.L.** and **Butselaar, R.J.** A dynamic chemiluminescent process. Cyclic and acyclic pathways in the photooxidative decarbonylation of 5-methyl-furfural, 1193
- Ferreira, D.** see **Steynberg, J.P.** 4147
- Ferreira, D.** see **Jacobs, E.** 4627
- Ferreri, C.** see **Palumbo, G.** 1307
- Ferres, H., Hatton, I.K., Jennings, L.J.A., Tyrrell, A.W.R.** and **Williams, D.J.** A diastereoselective synthesis of 4(RS),6(SR)-mercaptomethylmalonolactone, a key intermediate in the preparation of a new class of inhibitors of HMG-CoA reductase, 3769
- Ferro, E.** see **González, A.G.** 3033
- Fessner, W.-D., Prinzbach, H.** and **Rihs, G.** Pagodan – an undecacyclic $\text{C}_{20}\text{H}_{20}$ -polyquinane, 5857
- Feustel, M.** und **Himbert, G.** Nicht-symmetrische (Butadiin)diamine, 2165
- Feutrill, G.** see **Jacobs, R.** 2441
- Fiandanese, V., Marchese, G.** and **Ronzini, L.** One-step synthesis of ketones from carboxylic acids and Grignard reagents in the presence

- of a nickel(II)-phosphine catalyst, 3677
- Fiandanese, V.** see **Cutolo, M.** 4603
- Fiaschi, R.** see **Napolitano, E.** 1319
- Fichtner, M.W.** see **Bender, S.L.** 237
- Ficini, J., Falou, S. and d'Angelo, J.** Révision de structure d'un benzoate allylique, intermédiaire de synthèse d'acides chrysanthémiques, 375
- Ficini, J., Guingant, A., d'Angelo, J. et Stork, G.** Synthèse stéréosélective des *cis* et *trans* carboxy-4 tetrahydro 3*a*,4,5,6 indanones-1, 907
- Ficini, J., Desmaele, D. and Touzin, A.-M.** Stéréosélectivité de la cycloaddition due *N,N*-diethylaminopropyne avec la méthyl-4 cyclopentene-2 one-1, 1025
- Ficini, J.** see **d'Angelo, J.** 1489
- Ficini, J.** see **Desmaële, D.** 3079, 3083
- Filho, R.B.** see **Pinto, A.C.** 5043
- Finch, H.** see **Collington, E.W.** 3121
- Finkelstein, J.A.** see **Perchonock, C.D.** 2457
- Fiorenza, M.** see **Taddei, M.** 2311
- Fiori, G.** see **Daneilli, B.** 819
- Fischer, A.** and **Henderson G.N.** Addition of functionalized organolithium reagents to *p*-benzoquinones and cyclohexadienones: Synthesis of functionalized cyclohexadienones, dienols and dienediols, 131
- Fischer, G.** see **Prinzbach, H.** 2147
- Fischer, J.W.** see **Bridges, A.J.** 445, 447
- Fisher, A.M.** see **Shiner, C.S.** 5687
- Fisher, M.H.** see **Mrozik, H.** 5333
- Fitjer, L., Giersig, M., Clegg, W., Schormann, N. and Sheldrick, G.M.** Towards [6.5]coronane – fivefold cyclobutylmethyl-cyclopentyl rearrangement in a pentapiroheneicosanol, 5351
- Fitjer, L. and Modaressi, S.** The stereochemistry of the [2 + 2]-cycloadditions of cyclopentyne – evidence for an atisymmetrical singlet ground state, 5495
- Flann, C.J.** see **Boeckman, R.K., Jr.** 4923, 5035
- Flavin, M.T. and Lu, M.C.** Synthesis of a novel hexahydrofuro[3,4-*b*]furan derivative, 2335
- Fleet, G.W.J. and Shing, T.K.M.** Enantiospecific synthesis of (*3S*-hydroxy-2*S*-methyl)butyltriphenylphosphonium iodide, a precursor for the chiral side chain of pseudomonic acid C, 3657
- Fleet, G.W.J., Gough, M.J. and Shing, T.K.M.** Enantiospecific total synthesis of pseudomonic acids from arabinose, 3661
- Fleischhauer, I. und Brinker, U.H.** Regiospezifisches Umlargerungsverhalten Butadienyl- und Vinylsubstituierter Cyclopropylidene, 3205
- Fleming, I. and Iqbal, J.** The methoxycarbonylalkylation and methoxycarbonylalkylenation of silyl enol ethers, 327
- Fleming, I. and Iqbal, J.** $\alpha : \gamma$ ratios in phenylthiomethylation of silyl dienol ethers, 2913
- Fleming, I. and Terrett, N.K.** Stereospecificity in the synthesis of allylsilanes from tertiary allylic acetates, 4151
- Fleming, I. and Terrett, N.K.** The stereochemistry of some Se^{2+} reactions of allyl- and allenyl-silanes, 4153
- Fleming, I. and Urch, C.J.** Stereospecific cyclopropane synthesis from γ -stannyl alcohols, 4591
- Fliri, H.** see **Mak, C.-P.** 347
- Flores, H.J.** see **Sánchez, I.H.** 551
- Florio, S.** see **Babudri, F.** 3883
- Flury, P. and Grob, C.A.** Differential bridging in the solvolysis of 6- and 7-substituted 2-*exo* and 2-*endo*-norbornyl *p*-toluenesulfonates, 3195
- Fogagnolo, M.** see **Medici, A.** 2901
- Foglio, M.** see **Alpegiani, M.** 1623
- Foglio, M.** see **Perrone, E.** 1631, 3283
- Fomum, Z.T., Ayafor, J.F. and Mbafor, J.T.** Erythrina studies. Part I. Novel antibacterial flavanones from *Erythrina sigmoida*, 4127
- Fong, H.H.S.** see **Che, C.** 1333
- Fongers, K.S., Hogeweegen, H. and Kingma, R.F.** Synthesis of phosphirenium salts, 643
- Fongers, K.S., Hogeweegen, H. and Kingma, R.F.** Reaction of aluminium halide σ complexes of cyclobutadienes with phosphorous dichlorides. Preparation of phospholium salts and phosphole oxides, 1423
- Fonouni, H.** see **Gerwick, W.J.** 5445
- Foote, C.S.** see **Jiang, Z.Q.** 461
- Foote, C.S.** see **Geller, G.G.** 673
- Forchiassin, M., Russo, C. and Nardin, G.** Cyclohexanespiro-compounds from 1-amino cyclohexenes and phenylcarbamoyl-diimide, 2909
- Fornasier, R., Scrimin, P. and Tonellato, U.** Reactivity and stereoselectivity in the cleavage of complexes of activated enantiomeric substrates with cyclodextrins, 5541
- Forrester, A.R., Henderson, J. and Reid, K.** Nitrosocarbonylbenzene as a spin trap, 5547
- Forstot, R.M.** see **Sternbach, D.D.** 3295
- Foti, F.** see **Risitano, F.** 5893
- Foulon, J.P.** see **Bourgain-Commergon, M.** 5077
- Fourrey, J.-L.** see **Barton, D.H.R.** 1605
- Fourrey, J.-L. and Varenne, J.** A new and general procedure for the preparation of deoxynucleoside phosphoramidites, 1963
- Fourrey, J.L.** see **Beauhaire, J.** 4417
- Fowler, F.W.** see **Koch, K.** 1581
- Fox, C.M.J.** see **Booth, P.M.** 5143
- Fox, M.A. and Chen, C.-C.** Electronic effects in the semiconductor – photocatalyzed oxidative cleavage of olefins, 547
- Fraga, B.M., González, A.G., Hernández, M.C., Martín, A.S., Duri, Z.J. and Hanson, J.R.** The chemical and microbiological synthesis of beyergibberellin A₉, 1945
- Fraga, B.M.** see **González, A.G.** 3033
- Franceshi, G.** see **Perrone, E.** 1631, 3283
- Francisco, C.G., Freire, R., Hernández, R., Melián, D., Salazar, J.A. and Suárez, E.** Unusually facile base-catalyzed epimerization of an alcohol. A case for neighboring participation by a geminal dinitro group, 3907
- Fancisco, C.G., Freire, R., Hernández, R., Medina, M.C. and Suárez, E.** Seven-membered cyclic transition state in the alkoxy-radical induced intramolecular hydrogen abstraction of 26-hydroxy-furostans, 4621
- Francisco, M.A.** see **Büchi, G.** 2527, 2531
- Franck-Neumann, M., Heitz, M.P., Martina, D. et de Cian, A.** Complexation de la déhydro- β ionone par le fer carbonyl; un complexe inhabituel de fer dicarbonylé, 1611
- Franck-Neumann, M. and Sedrati, M.** Studies on the effect of remote substituents on stereoactivity. II. Importance of the halogen and of

- steric factors on the course of the cycloaddition of different diazoalkanes to 7-halonorbornadienes, 1387
- Franck-Neumann, M.** and **Sedrati, M.** Studies on the effect of remote substituents on stereoreactivity. III. Influence of direct electronic activation of the dipolarophilic double-bond on the course of diazoalkanes cycloaddition to 7-halonorbornadienes, 1391
- Franck-Neumann, M., Heitz, M.P. et Martina, D.** Une méthode simple de libération des ligands organiques de leurs complexes de fer carbonylé, 1615
- Franck-Neumann, M., Geoffroy, P. et Lohmann, J.J.** Additions 1,3-dipolaires du diazo-2-propane sur le diacétylène et évolution photochimique des 3H-pyrazoles formés, 1775
- Franck-Neumann, M. et Geoffroy, P.** Transpositions et réactions intermoleculaires de vinylalcyne-carbénés, 1779
- Franke, L.A.** see **Hixson, S.S.** 41
- Fraser-Reid, B.** see **Molino, B.F.** 5819
- Fraser-Reid, B.** see **Magdzinski, L.** 5823
- Fray, G.I. and Purell, T.M.** Reactions of cyclooctatetraene and its derivatives — XI. Novel acid-catalyzed rearrangement of a 7,8-diazatricyclo-[4.2.2.0^{2,5}]deca-3,9-diene, 2607
- Fréchet, J.M.J.** see **Amaratunga, W.** 1143
- Freire, R.** see **Francisco, C.G.** 3907, 4621
- French, J.C.** see **Bloem, R.J.** 249
- Freyer, A.J.** see **Allais, D.P.** 2445
- Freyer, A.J.** see **Quast, H.** 5595
- Fried, J.** see **O-Yang, C.** 2533
- Fried, J.** see **Petrakis, K.S.** 3063, 3065
- Fristad, W.E. and Klang, J.A.** Silver(I) persulfate oxidative decarboxylation of carboxylic acids. Arylacetic acid dimerization, 2219
- Fristad, W.E. and Peterson, J.R.** Iron(II) catalyzed persulfate oxidation of alkenes to vicinal diacetates, 4547
- Froehler, B.C. and Metteucci, M.D.** Substituted 5-phenyltetrazoles: Improved activators of deoxynucleoside phosphoramidites in deoxyoligonucleotide synthesis, 3171
- Fronza, G.** see **de Bernardi, M.** 1635
- Fuentes, L.M.** see **Meyers, A.I.** 3551
- Fuganti, C., Grasselli, P., Pedrocchi-Fantoni, G., Servi, S. and Zirotti, C.** Carbohydrate-like chiral synthons. Preparation of (*R*)- γ -hexanolide, (*5R,6S,7S*) 6,7-isopropylidenoxy- δ -octanolide and (+)-exobrevicomin from (*2S,3S,4R*) 2,3-isopropylidenedioxy-4-benzoyloxyhept-6-ene, 3753
- Fuganti, C., Servi, S. and Zirotti, C.** Non-carbohydrate based synthesis of natural LTB₄, 5285
- Fuhr, B.** see **Martin, H.-D.** 5469
- Fuji, K.** see **Ueyama, K.** 2857
- Fujii, M.** see **Ono, N.** 3477
- Fujimori, K., Morita, N., Yasunami, M., Asao, T. and Takase, K.** A novel reaction of 5H-cyclohept[a]azulen-5-ones with haloketenes: facile synthesis of dicyclohepta[cd,gh]pentalene, 781
- Fujimori, K., Nagata, T. and Oae, S.** Flavin catalyzed reduction of diaryl disulfide with 1-benzyl-1,4-dihydronicotinamide, 5231
- Fujimoto, K.** see **Mikami, K.** 513
- Fujimoto, K.** see **Hirai, K.** 3251
- Fujio, M., Funatsu, K., Goto, M., Seki, Y., Mishima, M. and Tsuno, Y.** Substituent effect on the acetolysis of 2-phenylethyl tosylate, 2177
- Fujioka, H.** see **Leder, J.** 1463
- Fujioka, T.** see **Mori, K.** 1547
- Fujisawa, T.** see **Sato, T.** 729, 4123
- Fujisawa, T., Mori, T., Tsuge, S. and Sato, T.** Direct and chemoselective conversion of carboxylic acids into aldehydes, 1543
- Fujisawa, T., Tida, S., Yukizaki, H. and Sato, T.** A convenient coupling reaction of allyl alcohols with Grignard reagents using 1-chloro-2-methyl-N,N-tetramethylenepropenylamine, 5745
- Fujise, Y.** see **Saito, H.** 3879
- Fujise, Y., Morishima, T., Namiwa, K., Shiokawa, T., Fukazawa, Y. and Ito, S.** Formation and rearrangement of tricyclo[7.1.1.0^{4,10}]undeca-2,4,6,8-tetraen-10-ol, novel pathway from bicyclo[4.4.1]-undeca-1(10),2,4,8-tetraen-11-one to 4-methylazulene, 4261
- Fujita, E.** see **Ochiai, M.** 777, 4025
- Fujita, E.** see **Nagao, Y.** 2287, 2291
- Fujita, M.** see **Ogura, K.** 503
- Fujita, M. and Ojima, I.** Selenium dioxide oxidation of 3-methyl-4,5,6,7-tetrafluoroindoles: An efficient route to tetrafluoro analogs of 3-formyl and 3-acetoxymethylindole systems, 4573
- Fujita, Y.** see **Suzuki, S.** 5737
- Fujiwara, J.** see **Mori, A.** 4581
- Fujiyoshi, T.** see **Okamoto, Y.** 5645
- Fukasawa, H.** see **Shibasaki, M.** 3497
- Fukata, F.** see **Kita, Y.** 1273
- Fukatsu, S.** see **Minowa, N.** 2391
- Fukazawa, Y., Sobukawa, M., Shiokawa, T. and Ito, S.** Azulenophane VI. Conformation of dithia[3.3]-azulenophanes, 2199
- Fukazawa, Y.** see **Ogita, T.** 2283
- Fukazawa, Y.** see **Fujize, Y.** 4261
- Fukuda, C.** see **Ogawa, H.** 1045
- Fukui, M.** see **Nakata, T.** 2657, 2661, 3873
- Fukumoto, K.** see **Shishido, K.** 2783
- Fukumoto, K.** see **Nemoto, H.** 4257
- Fukushi, H.** see **Harayama, T.** 5241
- Fukuzawa, S.** see **Uemura, S.** 4347
- Funabashi, H., Iwasaki, S., Okuda, S. and Omura, S.** A model study of the mechanism of fatty acid synthetase inhibition by antibiotic cerulenin, 2673
- Funatsu, K.** see **Fujio, M.** 2177
- Fung, Y.** see **Barker, P.J.** 97
- Furihata, K.** see **Takahashi, S.** 499
- Furin, G.G.** see **Bardin, V.V.** 4875
- Furuichi, A.** see **Akita, H.** 2009
- Furukawa, H.** see **Shizuri, Y.** 1053
- Furukawa, H.** see **McPhail, A.T.** 5377
- Furukawa, J., Iwasaki, S. and Okuda, S.** Method for determination of enantiomeric composition and absolute configuration of 2,3-deuterated 3-akylpropanols, 5257
- Furukawa, J., Iwasaki, S. and Okuda, S.** Eu(fod)₃-shifted ²H-NMR as a probe of chirality due to deuterium substituted: Stereospecific deuterium incorporation into 2-n-hexyl-5-n-propylresorcinol, a polyketide produced by *Pseudomonas* sp. B-9004, 5261
- Furukawa, N., Ogawa, S., Kawai, T. and Oae, S.** Selective ipso-substitution in pyridine ring and its application for the synthesis of macrocycles containing both oxa- and thia-bridges, 3243
- Furusaki, A.** see **Eboki, N.** 4341
- Furusaki, A.** see **Okuno, T.** 5653
- Fusetani, N., Kato, Y., Matsunaga, S. and Hashimoto, K.** Bioactive marine metabolites III. A novel polyacetylene alcohol, inhibitor or cell division in

- fertilized sea urchin eggs, from the marine sponge *Tetrosia* sp., 2771
- Fusi, S. see Adembri, G. 5399
- Fytas, G. see Canonne, P. 2991
- Gabioud, R. and Vogel, P. Stereo-selective control in the base-catalyzed H-D exchange reaction of 5,6,7,8-tetrakis(methylene)-2-bicyclo[2.2.2]octanone iron-tricarbonyl complexes, 1983
- Gagnon, S.D. see Schaap, A.P. 3047
- Galamb, V. and Alper, H. A convenient method for the conversion of *trans* to *cis*-cinnamic acids, 2965
- Galambos, G. see Ivanics, J. 315
- Galambos, G., Simonidesz, V., Ivanics, J., Horvath, K. and Kovacs, G. Synthesis of stable prostacyclin analogues, 1281
- Galanos, C. see Imoto, M. 4017
- Galindo, A. see González, A.G. 969
- Gallacher, G. see Attah-Poku, S.K. 677
- Gallacher, G. see Bremner, J.A.S. 3783
- Gallego, M.G. see Armesto, D. 1089
- Galliani, G. and Pantarotto, C. The reaction of guanosine and 3'-deoxyguanosine with acrolein, 4491
- Gallo, R. see Caia, V. 3903
- Gamasa, M.P. see Ashby, E.C. 851
- Gammill, R.B., Nash, S.A. and Mizsak, S.A. The addition of amines to 3-bromochromone and 6-bromofurochromone. An unexpected ring contraction of the pyrone ring, 3435
- Gandolfi, C.A. see Buzzetti, F. 2505
- Gandolfi, C.A. see Mongelli, N. 3527
- Gandolfi, C.A. see Baraldi, P.G. 4871
- Ganem, B. see Wood, R.D. 4391
- Ganesh, R.S. see Swaminathan, K.S. 3653
- Ganguli, N.C. see Allais, D.P. 2445
- Ganguly, A.K. see Girijavallabhan, V.M. 3179
- Gano, J.E. see Mueller, P.H. 485
- Garad, M.V., Pelter, A., Singaram, B. and Wilson, J.W. The dimesitylboron group in organic synthesis. 5. Hetero-atom substituted dimesitylborylmethanes, 637
- Garbarino, G. see Dell'erba, C. 1191
- García, B. see Arnó, M. 1741
- Gardner, J.H. see Rich, D.H. 5305
- Gardner, S. see Bedford, R. 1553
- Garigipati, R.S., Morton, J.A. and Weinreb, S.M. A method for diastereoselective synthesis of unsaturated acyclic amines, 987
- Garner, P. see Grieco, P.A. 1897, 3807
- Garratt, D.G. see Schmid, G.H. 5299
- Garst, M.E., McBride, B.J. and Douglass, J.G. Intramolecular cycloadditions with 2-(ω -alkenyl)-5-hydroxy-4-pyrones, 1675
- Gartiser, T., Selve, C. et Delpuech, J.-J. Réduction d'azides en amines par le formiate d'ammonium par "Transfert d'Hydrogène catalysé" (CTH), 1609
- Gaset, A. see Le Bigot, Y. 193
- Gassman, P.G. and Olson, K.D. Photoinduced addition of nucleophiles to bicyclo[2.2.1]hepta-2,5-diene, 19
- Gassman, P.G. and Bonser, S.M. The transition metal complex promoted isomerization of *trans*-bicyclo[4.1.0]hept-3-ene to *cis*-bicyclo[4.1.0]hept-3-ene, 3431
- Gasteiger, J. and Hutchings, M.G. New empirical models of substituent polarisability and their application to stabilisation effects in positively charged species, 2537
- Gasteiger, J. see Hutchings, M.G. 2541
- Gattuso, M. see Caristi, C. 1285, 2685, 3682
- Gaudemar, M. see Goasdoue, C. 4001
- Gaudemar-Bardone, F. see Toullec, J. 589
- Gaudemar, M. Préparation d'esters γ -éthyléniques par allylation du réactif de Reformatsky en présence de sels de cuivre, 2749
- Gautier, J.C. see Raynal, S. 1791
- Gayen, A.K. see Sarma, A.S. 3385
- Gebicka, E. and Le Noble, W.J. Pressure-induced changes in solvent sorting by solute molecules, 2427
- Gelin, S. see Chantegrel, B. 381
- Gelin, S. see Deshayes, C. 4679
- Geller, G.G., Foote, C.S. and Pechman, D.B. Chemistry of singlet oxygen. 41 direct observation of a dioxetane from the singlet oxygen photooxygenation of a thioketene acetal, 673
- Genét, J.P., Balabane, M., Bäckvall, J.E. and Nyström, J.E. Regio- and stereoselective palladium catalyzed amination of allylic substrates. Synthesis of *E*-4-amino-2-alken-1-ol derivatives, 2745
- Gennari, C. see Still, W.C. 4405
- Geoffroy, P. see Franck-Neumann, P. 1775, 1779
- Gerber, N.N. Cycloprodigiosin from *Beneckeia gazogenes*, 2797
- Gerber, N.N. Erratum, 4498
- Gerdes, J.M. see Dauben, W.G. 3841, 5709
- Gerke, R. see Loerzer, T. 5861
- Germain, G. see Texier, F. 189
- Germain, G. see Le Clef, B. 1035
- Gerstmans, A. see Cornélis, A. 3103
- Gervals, D. see Blandy, C. 4189
- Gerwick, W.J., Gould, S.J. and Fonouni, H. The biosynthesis of streptonigrin from [1- ^{13}C]-D-erythrose, 5445
- Gesson, J.P., Jacquesy, J.C. and Renoux, B. Regiospecific synthesis of tetracyclic alkenes. Precursors of various anthracyclines, 2757
- Gesson, J.P., Jacquesy, J.C. and Renoux, B. Approach to the synthesis of steffimycins. Preparation and antibacterial activity of (\pm) 8-demethoxy 7-epi (?) steffimycinone, 2761
- Gesson, J.-P., Jacquesy, J.-C., Jouannetaud, M.-P. et Morellet, G. Hydroxylation du benzaldehyde et de cétones aromatiques par le peroxyde *d*-hydrogène en milieu superacide, 3095
- Gelfenstein, M. see Hebert, E. 1381
- Ghera, E. and Ben-David, Y. New annulation methods of aromatic rings. New syntheses of naphthalene, anthracene and phenanthrene structures, 3533
- Ghiringhelli, D. A synthesis of (*S,S*)-(+)grahamimycin A₁, 287
- Ghosez, L. see Saimoto, H. 2251
- Ghosez, L. see Cossement, M. 2563
- Ghosh, A.K. see Kozikowski, A.P. 2623
- Giacomello, P., Pizzabiocca, A., Renzi, G. and Speranza, M. Acid-catalyzed aldehyde-ketone rearrangements in the gas phase. Cyclopentane- and cyclohexane-carboxaldehyde, 4157
- Giannotti, C., Le Greneur, S. and Watts, O. Photo-oxidation of alkanes by metal oxide semiconductors, 5071
- Gianotti, M.P. see De Bernardi, M. 1635
- Giersig, M. see Fitjer, L. 5351
- Giese, B., Dupuis, J., Hasskerl, T. and Meixner, J. The influence of alkoxy groups on the nucleophilicity of alkyl radicals, 703
- Giese, B., Lee, W.B. and Stiehl, C.

- Steric effects in carbene cyclo-additions, 881
- Giese, B. and Horler, H. CC bond formation reactions with uppolung of aldehydes via radicals, 3221
- Giffard, M. et Cousseau, J. Obtention d'amino-2 thiazoles-1,3 par action d'amines primaires sur des α -halo β -thiocyanato alcènes, 5085
- Gilham, P.T. see Gough, G.R. 5317, 5321
- Gillard, F. and Riehl, J.-J. A synthetic approach to (+)-anamarin synthesis of a precursor of the side-chain, 587
- Gillaspey, W.D. see Adam, W. 1699, 5473
- Gilman, J.W. see Shea, K.J. 657
- Gilmore, C.J., MacNicol, D.D., Murphy, A. and Russell, M.A. Synthesis of hexakis(aryloxy) benzenes: X-ray analysis of hexakis(phenyloxy)benzene and of the acetonitrile clathrate of hexakis(3,5-dimethylphenyloxy) benzene, 3269
- Giordano, C. see Castaldi, G. 2487
- Giraudi, E. et Teisseire, P. Nouvelle synthèse des undecatrienes-1,3,5 naturels, 489
- Girijavallabhan, V.M., Ganguly, A.K., Pinto, P. and Versace, R. Synthesis of optically active penems³ - II, 3179
- Girotra, N.N. and Wendler, N.L. A new route in the sequential total synthesis of compactin, 3687
- Giudici, F. see Alpegiani, M. 1627
- Giudici, F. see Perrone, E. 3283
- Glancey, B.M. see Rocca, J.R. 1889, 1893
- Glatzhofer, D.T. and Longone, D.T. A 1,10-Hofmann elimination. Synthesis of a [6.6]paracyclophane tetraene, 4413
- Gleason, J.G. see Perchonock, C.D. 2457
- Gleiter, R., Haider, R., Spanget-Larsen, J. and Bischof, P. Evidence for through-bond interaction between mutually perpendicular PI systems, 1149
- Gleiter, R. and Jähne, G. Through bond and through space interaction in 1,5-dimethyl-3,7-dimethylenetetracyclo[3.3.0.0^{2,8}.0^{4,6}]octane, 5063
- Glidewell, C., Shepherd, T. and Smith, D.M. Halogenation of quinoxalino[2,3-c]cinnolines by hydrogen halides, 3151
- Gnonlonfoun, N. see Rouessac, F.
- 2247
- Goasdoue, C., Goasdoue, N. and Gaudemar, M. Erythro or threo selective aldol-type reaction via (Z)S-silyl ketene S,N acetals, 4001
- Goasdoue, N. see Goasdoue, C. 4001
- Godel, T. see Oppolzer, W. 4971
- Godinho, L.S. see Lobo, A.M. 2205
- Godschalk, J.P. and Stille, J.K. Cross coupling reaction of allyl bromides with organotin reagents catalyzed by zinc chloride, 1905
- Godts, F. see L'Abbe, G. 3149
- Goel, O.P. and Krolls, U. Preparation of α -bromoesters via the half esters of malonic acids. A novel method for rapid decarboxylation under mild conditions, 163
- Gogte, V.N., Natu, A.A. and Pandit, V.S. Oxidative coupling reactions under PTC conditions, 4131
- Goldsmith, D., Liotta, D., Saindane, M., Waykole, L. and Bowen, P. 3-Alkylfurans as useful synthetic equivalents for substituted Δ^2 -butenolides, 5935
- Goliński, J. see Makosza, M. 3277
- Goliński, J., Makosza, M. and Rykowski, A. Formation of aziridine and cyclopropane rings in reaction of quinoxalines and naphthyridines with α -halocarbonions, 3279
- Goßnick, K. and Griesbeck, A. [4 + 2]-cycloaddition of singlet oxygen to conjugated acyclic hexadienes: Evidence of singlet oxygen induced cis \Rightarrow trans-isomerization, 3303
- Gompper, R., Kruck, P. und Schelble, J. Reaktionen elektronenreicher Azole, 3563
- Gompper, R. und Sengüler, N. Chinoniminiumsalze und Amino-chinonmethide, 3567
- González, A.G., Martín, J.D., Norte, M., Pérez, R., Weyler, V., Perales, A. and Fayos, J. New halogenated constituents of the digestive gland of the sea hare *aplysia dactylomela*, 847
- González, A.G., De Le Fuente, G., Diaz, R., Jones, P.G. and Sheldrick, G.M. The structure of pentagydine, a new diterpenoid alkaloid, 959
- González, A.G., Galindo, A., Mansilla, H. and Palenzuela, J.A. Evidence for the biogenesis of trans-(1 β -H; 5 α -H)-guaianolides, 969
- González, A.G., Martín, J.D. Norte, M., Pérez, R., Weyler, V., Rafii, S. and Clardy, J. A new diterpene from *Aplysia dactylomela*, 1075
- González, A.G. see Fraga, B.M. 1945
- González, A.G., Fraga, B.M., González, C.M., Ravelo, A.G., Ferro, E., Dominguez, X.A., Martínez, M.A., Fayos, J., Perales, A. and Rodríguez, M.L. X-ray analysis of netzahualcoyne, a triterpene quinone methide from *Orthosphenia Mexicana*, 3033
- González, A.G., De La Fuente, G., Reina, M., Jones, P.G. and Raithby, P.R. Two new diterpenoid alkaloids from *Delphinium cardiopetalum*, 3765
- González, A.G., Martín, J.D., Norte, M., Pérez, R., Rivera, P., Ruano, J.Z., Rodríguez, M.L., Fayos, J. and Perales, A. X-ray structure determination of new brominated metabolites isolated from the red seaweed *Laurencia obtusa*, 4143
- González, C.M. see González, A.G. 3033
- Gooch, E.E. see Suzuki, M. 3839
- Goodall, D.M. see Clark, J.H. 1097
- Goodwin, D. see Beecroft, R.A. 5673
- Gordon, E.M. and Pluščec, J. β -Lactam ring rearrangement of a 6-sulfeniminopenicillanic acid, 3419
- Gore, J. see Bluthe, N. 1157
- Gore, J. see Arseniyadis, S. 3997
- Görlach, Y. see Quast, H. 5591, 5595
- Gosselin, P. et Rouessac, F. Polycyclisations cationiques de polyènes via leurs bromohydrides - II synthèse de la (\pm) aplysistatine, 5515
- Goti, A. see De Sarlo, F. 1815
- Goto, M. see Fujio, M. 2177
- Goto, T. see Kondo, N. 925, 3647
- Goto, T., Kondo, T., Tamura, H., Kawahori, K. and Hattori, H. Structure of platyconin, a diacalact ed anthocyanin isolated from the Chinese bell-flower *Platycodon grandiflorum*, 2181
- Goto, T., Kondo, T., Tamura, H. and Takase, S. Structure of malonyl-awobanin, the real anthocyanin present in blue-colored flower petals of *Commelina communis*, 4863
- Goto, T. see Ohno, A. 5123
- Goto, T. see Nakatsuka, S. 5627
- Goto, T. see Tamura, H. 5749
- Goto, T. see Toya, Y. 5723
- Gotoh, Y. see Sato, T. 4123
- Gotthardt, H. und Schenk, K.-H. Neue, Stable Peroxide aus Pyrimidinium-4-olaten und Singulett-Sauerstoff, 4669

- Gottschalk, P. see Kraus, G.A. 2727
 Gough, G.R., Brunden, M.J. and Gilham, P.T. Phosphocytidines as versatile 3' protecting groups in triester synthesis of oligodeoxyribonucleotides, 5317
 Gough, G.R., Brunden, M.J. and Gilham, P.T. 2'(3')-O-benzoyluridine 5' linked to glass: An all-purpose support for solid phase synthesis of oligodeoxyribonucleotides, 5321
 Gough, M.J. see Flett, G.W.J. 3661
 Gould, I.R. see Moss, R.A. 685, 3418
 Gould, I.R. see Cox, D.P. 5313
 Gould, S.J. see Pontoni, G. 151
 Gould, S.J. see Gerwick, W.J. 5445
 Gould, T.J. see Kallmerten, J. 5177
 Goument, C. see Duhamel, L. 2095
 Gramatica, P. see Monti, D. 417
 Gramstad, T., Husebye, S. and Saebø, J. The reaction of trifluoromethanesulphonic anhydride with carbonyl compounds, 3919
 Grandjean, J. and Laszlo, P. Solution structure and cation-binding abilities of two quasi-isomorphous antibiotic ionophores, M 139603 and tetrodomycin, 3319
 Grasselli, P. see Fuganti, C. 3753
 Grassi, G. see Risitano, F. 5893
 Gravel, D., Déziel, R. and Bordeleau, L. Preparation of 3-chloro-2-methyl-1-selenophenylpropene, a new equivalent of methacrolein. Application to the regiospecific synthesis of a model of the selagine ring system, 699
 Graves, M.D. see Rinehart, K.L., Jr. 1593
 Greeley, A.C. see Shea, K.J. 4173
 Greenlee, W.J. and Hangauer, D.G. Addition of trimethylsilyl cyanide to α -substituted ketones: Catalyst efficiency, 4559
 Greeno, E.W. see Markgraf, J.H. 241
 Gribble, G.W. see Saulnier, M.G. 3831
 Gribble, G.W. see Nutaitis, C.F. 4287
 Gribble, G.W. see Saulnier, M.G. 5435
 Grieco, P.A., Garner, P. and He, Z. "Micellar" catalysis in the aqueous intermolecular Diels-Alder reaction: Rate acceleration and enhanced selectivity, 1897
 Grieco, P.A., Garner, P., Yoshida, K. and Huffman, J.C. Aqueous intermolecular Diels-Alder chemistry: Novel products derived from substituted benzoquinone-diene carboxylate adducts via tandem Michael reactions, 3807
 Grierson, D.S. see Bonin, M. 1493
 Grierson, D.S. see Medina, D.H.G. 2099
 Griesbaum, K. see Hittich, R. 1147
 Griesbeck, A. see Gollnick, K. 3303
 Griesser, H. see Schmidt, U. 3573
 Griffey, R.H. and Poulter, C.D. Detection of the imino hydrogen bond in G-C pairs by ^1H and ^{15}N nuclear magnetic resonance spectroscopy, 4067
 Griffin, J. see Wierenga, W. 2437
 Grigg, R. and Gunaratne, H.Q.N. X=Y-ZH systems as potential 1,3-dipoles. 1,5-electrocyclisations of imines, 1201
 Grigg, R., Gunaratne, H.Q.N., Sridharan, V., Thianpatanagul, S. and Tute, M. X=Y-ZH systems as potential 1,3-dipoles. Activation of the ZH proton in imines, 4363
 Grigg, R. and Gunaratne, H.Q.N. The mechanism of the racemisation of α -amino acids in the presence of aldehydes, 4457
 Grigorieva, N.Y., Avrutov, I.M. and Semenovsky, A.V. Novel approach to the stereoselective synthesis of polypropenols via directed aldol condensation. Preparation of heptaprenols ω ttccCOH and ω ttcctCOH, 5531
 Grob, C.A. see Flury, P. 3195
 Grode, S.H., James, T.R. and Cardellina, J.H. Brianthein Z, a new polyfunctional diterpene from the gorgonian *Briareum polyanthes*, 691
 Grootenhuis, P.D.J. see Kamphuis, J. 1101
 Grossbruchhaus, V. see Sinha, N.D. 877
 Grover, S.K. see Saxena, S. 3401
 Guanti, G., Narisano, E., Banfi, L. and Scolastico, C. Asymmetric synthesis of protected α -hydroxyaldehydes from acyl chlorides using *p*-tolyl *p*-tolylthiomethyl sulfoxide as chiral carbonyl synthon, 817
 Guarna, A. see De Sarlo, F. 1815
 Guella, G., Guerriero, A., Traidi, P. and Pietra, F. Penlanfuran, a new furanoid sesquiterpene from the marine sponge *Dysidea fragilis* (Mont.) of Brittany. A striking difference with the same Hawaiian species, 3897
 Guerrero, A. see Camps, F. 3387
 Guerriero, A. see Guella, G. 3897
 Guga, P. and Stec, W.J. Stereoretentive conversion of dialkyl phosphorothioates into [^{18}O]-phosphates, 3899
 Guinaudeau, H. see Allais, D.P. 2445
 Guindon, Y., Yoakim, C. and Morton, H.E. Cleavage of carbon-oxygen bonds. Dimethylboron bromide. A new reagent for ether cleavage, 2969
 Guindon, Y., Morton, H.E. and Yoakim, C. Demethylboron bromide and diphenylboron bromide. Acetal and ketal cleavage. Cleavage of MEM, MOM and MTM ethers, 3969
 Guingant, A. see Ficini, J. 907
 Guingant, A. see Desmaële, D. 3079, 3083
 Guitian, E. see Castedo, L. 2107
 Guittet, E. see Ruel, O. 61
 Gunaherath, B. see Kamal, G.M. 2799
 Gunaherath, G.M.K.B. and Gunatilaka, A.A.L. Structures of two new phenolic 24-nor-D:A-Friedo-oleananes related to zeylasterone: A partial synthesis of trimethylzeylasterone, 2025
 Gunaratne, H.Q.N. see Grigg, R. 1201, 4363, 4457
 Gunatilaka, A.A.L. see Gunaherath, G.M.K.B. 2025
 Gunatilaka, A.A.L. see Kamal, G.M. 2799
 Gunatilaka, A.A.L., Hirai, N. and Kingston, D.G.I. Synthesis of racemic fecapentaene-12. A potent mutagen from human feces, and its regioisomer, 5457
 Gunaratne, R.D. see Martin, A.S. 4063
 Gunji, S. see Ogita, R. 2283
 Gyoung, Y.S. see Yoon, N.M. 5367
 Haag, A.P. see Anderson, D.K. 1329
 Habermehl, G.G. and Kirsch, J.H. Synthesis of bivittoside C genine, 2981
 Häbich, D., Naab, P. and Metzger, K. A short synthesis of (\pm) 7-oxo-3-oxa-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 2559
 Haces, A. see Van Krachten, E.M.G.A. 3939
 Hacker, N.P. see Moss, R.A. 685, 3418
 Hacker, N.P. see Cox, D.P. 5313
 Hadley, M.S., King, F.D. and Martin, R.T. The synthesis, reduction and cyclisation of N-(3-butene)-morpholin-and-thiomorpholin-2,6-diones, 91
 Haffmanns, G. see Padwa, A. 4303
 Hagenah, J.A. see Jung, M.E. 3973
 Hagenmaier, H. see Werner, G. 5193
 Haider, R. see Gleiter, R. 1149
 Hakimelahi, G.H. see Ogilvie, K.K.

- 865
Halazy, S. and **Hevesi, L.** New rearrangements of the adducts formed from allenes and benzene-selenenyl halides, 2689
Halazy, S. see **Di Giamberardino, T.** 3413
Halet, J.F. see **Lequan, M.** 3107
Haley, N.F. see **Bender, S.O.** 237
Halle, J.-C., Pouet, M.-J. and **Simonnin, M.-P.** NMR characterization of Zwitterionic nitrogen-bonded σ -complexes: The imidazole/4,6-dinitrobenzofuran system, 493
Halle, J.-C., Simonnin, M.-P., Pouet, M.-J. and **Terrier, F.** II-Excessive five-membered ring heteroaromatics acting as carbon nucleophiles towards an electrophilic aromatic, 2255
Haltiwanger, R.C. see **Porskamp, P.A.T.W.** 2035
Hama, F. see **Doyama, K.** 5253
Hamachi, I. see **Hayashi, T.** 2865
Hamada, A. see **Miller, D.D.** 555
Hamada, Y. see **Ando, W.** 4033
Hamatsu, T. see **Tatsuta, K.** 4867
Hamilton, D.G. see **Paton, R.M.** 5141
Hamman, S. et Beguin, C.G. Effet de la concentration en acide fluorohydrique dans la pyridine sur la r \acute{e} gio-s \acute{e} lectivit \acute{e} de la fluoruration par d \acute{e} amination d' α -amino-esters: Synth \acute{e} ses de compos \acute{e} s carboxyles- β -fluores, 57
Hammann, H. see **Neunhoeffer, H.** 1767
Han, K.I. see **Eisch, J.J.** 2073
Hanack, M. see **Auchter, G.** 577
Hanaoka, M., Iwasaki, M., Sakurai, S. and **Mukai, C.** Transformation of protoberberines into benzin-denoazepines. Stereoselective synthesis of (\pm)-fumaritrine, 3845
Hangauer, D.G. see **Greenlee, W.J.** 4559
Hansen, D.W. Jr. see **Smith, P.A.S.** 5169
Hanson, J.R. and **Reese, P.B.** Neighbouring group participation in the rearrangement of 4β -acetoxy- Δ^5 -steroids to 6β -acetoxy- Δ^4 -steroids, 303
Hanson J.R. see **Baynham, M.K.** 1941
Hanson, J.R. see **Fraga, B.M.** 1945
Hanson, J.R. and **Reese, P.B.** A deuterium NMR study of 4-methyloestratriene formation, 3405
Hansske, F. and **Robins, M.J.** Nucleic acid related compounds. 43. A convenient procedure for the synthesis of 2' and 3'-ketonucleosides, 1589
Hara, K. see **Mandai, T.** 1517, 4993
Hara, S., Dojo, H., Takinami, S. and **Suzuki, A.** Organic synthesis using haloboration reaction. I. A simple and selective synthesis of 2-bromo- and 2-iodo-1-alkenes, 731
Hara, S., Satoh, Y., Ishiguro, H. and **Suzuki, A.** Organic synthesis using haloboration reaction II. A stereo- and regioselective synthesis of [Z]-1-alkynyl-2-halo-1-alkenes, 735
Hara, S. see **Dobashi, A.** 1509
Harada, K. see **Nomoto, S.** 3357
Harada, K. and **Takasaki, M.** Oxidation reaction of amino acids in aqueous solution induced by argon arc plasma, 4839
Harada, T. see **Oku, A.** 4699
Harada, T., Nozaki, Y. and **Oku, A.** Regioslective insertion of vinylidene carbene into α -C-H bond of alkoxides, 5665
Harano, Y. see **Hirao, T.** 1255
Harayama, T., Shinkai, Y., Hashimoto, Y., Fukushi, H. and **Inubushi, Y.** Synthesis of dl-aspartic acid, a carotane type sesquiterpene, 5241
Harbour, G.C. see **Rinehart, K.L., Jr.** 1593
Hardstone, D.J. see **Balasuriya, R.** 1385
Harger, M.J.P. Methoxide-catalysed rearrangement of N- to O-(diphenylphosphinyl)hydroxylamine, 3115
Harkin, S.A. and **Thomas, E.J.** Macrocycle formation using intra-molecular Diels Alder reactions: An approach to 'carbocyclic' cytochalasans, 5535
Harpp, D.N. and **MacDonald, J.G.** Synthesis of thioamides from aldonitrones utilizing rhiocarbonyl transfer reagents, 4927
Harpp, D.N., Aida, T. and **Chan, T.H.** A general, high-yield preparation of thiosulfinate esters using organotin precursors, 5173
Harris, D.J. see **Roush, W.R.** 2227
Harris, R.B. and **Wilson, I.B.** Synthesis of tert-butyl aminocarbonate, a new type of compound that can be used to acylate amines, 231
Harris, T.M. see **Oster, T.A.** 1851
Harrison, C.R. see **Caine, D.** 1353
Harrison, D.M. and **Quinn, P.** The stereospecific synthesis of (*S*)-2-[2 H₂]methyl-2-methylbutanol. Characterisation of the (*R*) and (*S*) enantiomers of the reacemic [2 H₃] alcohol by 2 H-NMR in the presence of a chiral shift reagent, 831
Hart, D.J. and **Tsai, Y.-M.** Sila-Pummerer rearrangement at SP²-hybridized carbon, 4387
Hart, H. and **Raggon, J.W.** A significant new product from the addition of dichlorocarbene to tetraphenylcyclone, 4891
Hart, H. and **Nwokogu, G.C.** The dilithiation mechanism in the reactions of polyhaloarenes as di-aryne equivalents, 5721
Hart, H. see **Nwokogu, G.C.** 5725
Hartling, S. see **Seifert, K.** 2841
Hartman, G.D., Schwering, J.E. and **Hartman, R.D.** Dimethyl sulfide ditriflate: A new reagent for the conversion of amino heterocycles to iminosulfuranes, 1011
Hartman, R.D. see **Hartman, G.D.** 1011
Hartmann, W. see **Heine, H.-G.** 2635
Haruta, J. see **Kita, Y.** 1273
Hasan, M. see **Anastassiou, A.G.** 4279
Hasegawa, M. see **Saigo, K.** 5381
Hasegawa, S. see **Hirose, Y.** 1535
Hasegawa, T., Arata, Y. and **Kageyama, A.** The Norrish type II photoreaction of benzoylvalerates. Stereochemical control in 1,4-biradical cyclization, 1995
Hashimoto, K. see **Fusetani, N.** 2771
Hashimoto, Y., Lee, C.-S., Shudo, K. and **Okamoto, T.** Synthesis of porphyrin(Fe)-intercalators which cause DNA scission, 1523
Hashimoto, Y. see **Harayama, T.** 5241
Haslinger, E. and **Kalchhauser, H.** 2D-NMR of natural products Part III Homo- and heteronuclear NMR-spectroscopy of a cyclic tetrapeptide related to chlamydacin, 2553
Hassan, D see **Bloch, R.** 4691
Hassan, I. see **Atta-ur-Rahman,** 1845
Hasskerl, T. see **Giese, B.** 703
Hassner, A., Dillon, J.L., Jr., Krepski, L.R. and **Onan, K.D.** Effect of conformation and stereochemistry in substitution reactions of fused chlorocyclobutanones: Oxyallylation intermediates, 1135
Hata, S., Nishino, T., Oda, Y., Katsuki, H., Aoyama, Y. and **Yoshida, Y.** Isolation of ergosta-5,7-diene-3 β ,23 ξ -diol from yeast, 4729
Hata, T. see **Kamimura, T.** 2775
Hata, T. see **Sekine, M.** 5741
Hatakeyama, S. see **Takano, S.** 401
Hatam, N.A.R. and **Nacy, W.G.** Oxyhallation of flavenes. I: Direct

- conversion of flavenes to flavones with thallium(III) nitrate, 4455
- Hatanaka, M. and Ishimaru, T. A simple synthesis of (\pm)-1-carbacephem derivatives, 4837
- Hatanaka, Y., Imamoto, T. and Yokoyama, M. Cerium(IV) ammonium nitrate-charcoal system. An effective catalyst for the air oxidation of benzyl alcohols and acyloins, 2399
- Hatfield, G.L. see Jung, M.E. 2931, 3175
- Hatton, I.K. see Ferres, H. 3769
- Hattori, H. see Katayama, M. 1703
- Hattori, H. see Goto, T. 2181
- Haufe, G., Lacombe, S., Laurent, A. et Rousset, C. Mise en évidence d'un intermédiaire cationique hydridoponte [1,5] lors de l'action du réactif de olah sur le phenyl-1-aza-9 bicyclo [6.1.0] nonane, 5977
- Hayashi, J.A.-A. see Davies, A.G. 4465
- Hayakawa, Y., Aso, Y., Uchiyama, M. and Noyori, R. Facile nucleoside phosphorylation via hydroxyl activation, 1165
- Hayakawa, Y., Aso, Y., Uchiyama, M. and Noyori, R. Chemosselective phosphorylation of *N*-unprotected nucleosides via aluminum alkoxides, 5641
- Hayashi, K. see Hirao, T. 399
- Hayashi, S. see Takemoto, T. 1057
- Hayashi, T., Okamoto, Y. and Kumada, M. An optically active propargylsilane: preparation by asymmetric Grignard cross-coupling and stereochemistry in an electrophilic substitution, 807
- Hayashi, T., Yanagida, M., Matsuda, Y. and Oishi, T. A highly stereoselective and regioselective synthesis of (E)-1,3-dienes and (E,E)-1,3,5-trienes, 2665
- Hayashi, T., Kabeto, K., Hamachi, I. and Kumada, M. Erythro-selectivity in addition of γ -substituted allylsilanes to aldehydes in the presence of titanium chloride, 2865
- Hayashi, T., Kabeto, K., Yamamoto, T., Tamai, K. and Kumada, M. Optically active cyclic allylsilanes preparation by asymmetric hydrosilylation and anti stereochemistry in S_E' reactions, 5661
- Hayashi, Y. see Kondo, N. 925
- Hayashi, Y. see Nishizawa, M. 2581, 4447
- Hay-Motherwell, R.S. see Barton, D.H.R. 1979
- Hazato, A. see Tanaka, T. 4103
- He, Z. see Grieco, P.A. 1897
- Heathcock, C.E. and Montgomery, S.H. Acyclic steric selection. 19. Total synthesis of (\pm)-ristosamine and (\pm)-megalosamine, 4637
- Heathcock, C.H. see Kiyooka, S. 4765
- Heathcock, C.H. see Bunce, R.A. 4943
- Hebert, E., Welvart, Z., Ghelfenstein, M. et Szwarc, H. Effet des hautes pressions sur le réarrangement de Wittig, 1381
- Hebert, E., Maigrot, N. et Welvart, Z. Stéréochimie de l'alkylation de carbanions dérivés d' α -aminonitriles et de cyanhydrines bloquées, 4683
- Heckel, A. and Pfleiderer W. Lumazinesulfenates – a new class of stable selfenic acids, 5047
- Heffernan, J.G. and Sherrington, D.C. Optimization of polymer-supported oligoethers as solid-liquid phase transfer catalysts, 1661
- Heilmann, S.M. see Krebski, L.R. 4075
- Heimann, M.R. see Schuda, P.F. 3829, 4267
- Heimgartner, H. see Obrecht, D. 1921
- Heine, H.-G., Hartmann, W., Knops, H.-J. und Priesitz, U. Autoxidative Ringverengung von 1,2-Bis(trimethylsiloxy)-cyclobutenen, 2635
- Heinicke, J. und Tzschach, A. [4+2]-cycloadditionen der λ^3 -P=C- und As=C-Strukturgruppen der 1,3-Benzoxaphosphole BZW. -arzole mit Dimethylbutadien und Tetrachlorobenzochinon, 5481
- Heitz, M.P. see Franck-Neumann, M. 1611, 1615
- Helmchen, G. and Schmierer, R. A total synthesis of enantiomerically pure vitamin E side chain using a chiral propionate synthon, 1235
- Helmchen, G., Selim, A., Dorsch, D. and Taufer, I. Influence of cation complexing solvent additives and functional groups in asymmetric alkylations of esters via lithium enolates, 3213
- Henderson, G.N. see Fischer, A. 131
- Henderson, J. see Forrester, A.R. 5547
- Hendrickson, J.B. and Singh, V. A new hydroxy-lactonization of olefinic acids, 431
- Hendrickson, J.B. and Pearson, D.A. Regioselective cycloaddition of a C-alkoxy-nitrone, 4657
- Hendrickson, W.H., Jr. see Pryor, W.A. 1459
- Henegar, K.E. see Dauben, W.G. 5709
- Hengeveld, J.E. see Chu, D.W.T. 139
- Henin, F. et Pete, J.-P. Synthesis of unsaturated butyrolactones by palladium catalyzed intramolecular carboalkoxylation of homoallylic chloroformates, 4687
- Henkel, G. see Metz, P. 1959
- Henning, R. and Urbach, H. Diastereoselective synthesis of bicyclic amino acids via ring contraction of α -chlorolactams, 5339
- Henning, R. and Urbach, H. Coupling of β -acetamido radicals with α -chloro acrylonitrile – a new access to disubstituted proline derivatives, 5343
- Henning, R., Urbach, H. and Paulus, E.F. Structure determination of a *trans*-octahydroindole derivative obtained by consecutive coupling of a β -acetamido radical with α -chloroacrylonitrile and cyclisation, 5347
- Henri-Rousseau, O. see Yebdri, O. 369
- Henzen, A.V. see Van Schaik, T.A.M. 1303
- Hernandez, H. see Molina, P. 3523
- Hernández, M.C. see Fraga, B.M. 1945
- Hernández, R. see Francisco, C.G. 3907, 4621
- Hershline, R. see Marshall, L. 2999
- Herunsalee, K. see Reutrakul, V. 527
- Hervé du Penhoat, C. see Cuvigny, T. 4315, 4319
- Hesbain-Frisque, A.-M. see Saimoto, H. 2251
- Hetmanski, M. see Elliott, J.D. 965
- Heumann, A., Réglier, M. and Waegell, B. Palladium catalyzed cyclization of 1,5-bismethylene-cyclooctane. Application to one carbon ring enlargement, 1971
- Heveling, J. see Alper, H. 5329
- Hevesi, L. see Halazy, S. 2689
- Hevesi, L. see Renard, M. 3911
- Hewson, A.T. and MacPherson, D.T. Conjugate addition to the ethylene ketal of 2-carbomethoxy-2-cyclopentenone a synthesis of sarkomycin, 647
- Hewson, A.T. and MacPherson, D.T. Synthesis of a highly functionalised bicyclo[3.3.0]octane, 5807
- Heyer, D. see Breslow, R. 5039
- Heywang, U. see Schlüter, A.-D. 891
- Hicks, R.P. and Sneden, A.T. Neo-

- isostegane, a new bisbenzo-cyclooctadiene lignan lactone from *Steganotaenia araliacea*, Hochst, 2987
- Hiemstra, H. and Speckamp, W.N. Completely regioselective α -acyliminium ion cyclizations with allyl and propargyl silanes, 1407
- Higashijima, T. see Nakamura, H. 4105
- Higuchi, H., Kugimiya, M., Otsubo, T., Sakata, Y. and Misumi, S. Synthesis of [2.2]cyclophanes by photodeselenative ring-contraction, 2593
- Hikichi, K. see Aoyagi, F. 1991
- Hilpert, H. see Orahovats, A.S. 947
- Himbert, G. see Feustel, M. 2165
- Himmelsbach, F. and Pfeiderer, W. The use of the p-nitrophenylethoxycarbonyl group for amino protection in cytidine and adenosine chemistry, 3583
- Hiner, R.N. see McGarvey, G.J. 2733
- Hino, T. see Nakagawa, M. 2171
- Hinotozawa, K. see Omura, S. 3643
- Hirai, K. and Ojima, I. Coupling reactions of vinylketene silyl acetics promoted by titanium tetrachloride, 785
- Hirai, K., Iwano, Y. and Fujimoto, K. From penicillin to penem and carbapenem. IV. Synthesis of 2-oxocarbapenam derivative, 3251
- Hirai, N. see Gunatilaka, A.A.L. 5457
- Hirama, M. and Iwashita, M. Total synthesis of (+)-monacolin K (mevinolin), 1811
- Hirama, M. see Takano, S. 4233
- Hirao, I. see Yamaguchi, M. 391, 1719, 5121
- Hirao, I. see Minami, T. 767
- Hirao, T., Masunaga, T., Hayashi, K., Ohshiro, Y. and Agawa, T. Novel reduction of α -bromo- α -beta-unsaturated ketones. Selective synthesis of β , γ -unsaturated ketones, 399
- Hirao, T., Harano, Y., Yamana, Y., Ohshiro, Y. and Agawa, T. Tetracarbonyl nickel induced reaction of gem-dibromocyclopropanes with alcohols or amines. Versatile synthesis of cyclopropanecarboxylic acid derivatives, 1255
- Hirao, T. see Ohshiro, Y. 3465
- Hiraoka, T. see Yanagisawa, H. 1037
- Hirata, Y. see Nakamura, H. 4105
- Hirobe, M. see Nagano, T. 3481
- Hirobe, M. see Kunieda, T. 5107
- Hirobe, M. see Mashino, T. 5113
- Hirokami, S., Takahashi, T., Nagata, M. and Yamazaki, T. Photochemical reactions of 4-pyrimidinones in acetic acid. Formation of 5-carboxy-pyrimidinium betaines, 5237
- Hirono, I. see Niwa, H. 4117, 5371
- Hirose, Y., Hasegawa, S., Ozaki, N. and Itaka, Y. Three new terpenoid quinone methides from the seed of *Chamaecyparis obtusa*, 1535
- Hirota, K. see Maki, Y. 799
- Hirota, T. and Itano, H. A Non-hydrolytic chemical conversion of octaethylverdohemochrome to octaethylbiliverdin, 995
- Hirsch, S. see Ben-Ishai, D. 955, 3162
- Hisatome, M., Yoshihashi, M., Yamakawa, K. and Itaka, Y. [2]metacyclo- and [2]paracyclo-[2],(1,3) ferrocenophanes¹⁻³, 5757
- Hittich, R. and Griesbaum, K. Rearrangement reactions of 1,2-dimethyl- and 1,3-dimethyl-1-cyclobutyl cations, 1147
- Hixson, S.S. and Franke, L.A. Arylcyclopropane photochemistry. Substituent effects on the photochemical conversion of 1,1-diaryl cyclopropanes to 1,1-diarylpropenes and 1-aryllindanes, 41
- Hiyama, T. and Obayashi, M. Epoxidation of allyl and homoallyl trimethylsilyl ethers with *t*-butyldioxytrimethylsilane and silicon Lewis acid/vanadium catalyst, 395
- Hiyama, T. see Kobayashi, K. 3509
- Hiyama, T. and Obayashi, M. Insertion of alkanal carbonyl and 1,3-diene units between Si-Si bonds of trisilanes. Synthesis of novel silicon-containing materials, 4109
- Hiyama, T., Obayashi, M. and Sawahara, M. Preparation and carbonyl addition of γ , γ -difluoroallylsilanes, 4113
- Hiyama, T. see Takai, K. 5281
- Hobert, K. see Welzel, P. 3199
- Hochlowski, J.E. and Faulkner, D.J. Antibiotics from the marine pulmonate *Siphonaria diemenensis*, 1917
- Hock, K. see Märkl, G. 2645, 5051, 5055
- Hoffmann, R.W. and Landmann, B. Z-Selective formation of substituted homoallyl alcohols, 3209
- Hoffmann, K.-L. und Regitz, M. Metallkatalysierte Zersetzung von 4-Diazomethyl-1*H*-pyranen – ein neuer Zugang in das Oxepinsystem, 5355
- Hofle, G. see Jansen, R. 5485
- Hogeveen, H. see Broxterman, Q.B. 639
- Hogeveen, H. see Fongers, K.S. 643, 1423
- Hojo, M. see Kamitori, Y. 2575
- Holak, T.A. see Sygula, A. 2893
- Holden, I. see Kimmel, E.C. 2819
- Holenstein, J.E., Kern, H., Stoessl, A. and Stothers, J.B. The marticins: Evidence for a mixed origin from the polyketide and tricarboxylic acid pathways by [2-¹³C]₁ and [1,2-¹³C]₂-acetate incorporation experiments, 4059
- Holladay, M.W. and Rich, D.H. Synthesis of hydroxyethylene and ketomethylene dipeptide isosteres, 4401
- Holland, H.L. and Jahangir. Rearrangement of steroid epoxides and opening of steroid ketals by alkylolithiums, 1577
- Hollis, W.M. see Aneja, R. 4641
- Hollmann, K. see Mühlstädt, M. 3203
- Holmes, C.P. see Bartlett, P.A. 1365
- Holton, R.A. see Krafft, M.E. 1345
- Holtz, W.J. see Lee, T.-J. 2071
- Homma, M. see Ogoshi, H. 929
- Homma, M., Aoyagi, K., Aoyama, Y. and Ogoshi, H. Electron deficient porphyrins. 1. Tetrakis (trifluoromethyl) porphyrin and its metal complexes, 4343
- Hommes, H. see Kulik, W. 2203
- Honda, T. see Kametani, T. 221, 1511
- Honek, J.F., Mancini, M.L. and Belleau, B. New strategy for the synthesis of key anthracycline precursors, 257
- Honek, J.F. see Mancini, M.L. 4295
- Honeybourne, C.L. see Houghton, J.D. 5703
- Honjo, M. see Kumadaki, I. 1055
- Honjo, M. see Maruyama, T. 2571
- Hooz, J. and Oudenens, J. A new regio- and stereocontrolled synthesis of enol silyl ethers, 5695
- Hopkinson, A.C. see Lee-Ruff, E. 2067
- Hopkinson, A.C. see Maleki, M. 4911
- Hoppe, D. and Brönneke, A. Highly diastereoselective synthesis of di- and trisubstituted 4-butanolides from aldehydes and ketones via three-carbon-extension by allylic homoenoate reagents, 1687
- Hori, M. see Kataoka, T. 75
- Hori, M., Kataoka, T., Shimizu, H., Kataoka, M., Tomoto, A. and Kishida, M. New modes of thermal reactions of cyclic sulfur

- ylides. Solvent uptake and spiro-compound formation, 3733
- Hori, M. see Onogi, K. 4337
- Horiguchi, Y. see Nakamura, E. 3341
- Horikawa, H., Nishitani, T., Iwasaki, T. and Inoue, I. A synthesis of geminally functionalized heterocyclic aminocarboxylic acids by cycloaddition of ethyl N-acetyl- α,β -dehydralaninate with 1,3-dipoles, 2193
- Horikawa, M. see Maruyama, T. 2571
- Horikoshi, K. see Akita, H. 2009
- Horler, H. see Giese, B. 3221
- Horn, M. see Märkl, G. 1477
- Hornykiewytsch, T. see Askani, R. 5513
- Horspool, W.M. see Armesto, D. 1089, 1197
- Horspool, W.M. and Khalaf, A.I. Substituent and wavelength effects in the photochemistry of 5,6,7,8-tetrachloro-3a,9a-dihydro-2,3,9a-triarylfuro(2,3-b) (1,4) benzodioxin derivatives, 3745
- Horton, M. and Pattenden, G. A new synthesis of (\pm)-cedrene using sequential inter- and intramolecular Michael reactions, 2125
- Horváth, K. see Galambos, G. 1281
- Hosangadi, P. see Chhaya, P. 5551
- Hoshino, M. see Nakayama, J. 2585, 3001, 3729
- Hosomi, A., Inaba, M. and Sakurai, H. A convenient and novel synthesis of 1,1-dichloroalkenes using α -lithiated dichloromethyltrimethylsilane and aldehydes, 4727
- Houge, C. see Saimoto, H. 2251
- Houghton, J.D., Jones, O.T.G., Quirke, J.M.E., Murray, M. and Honeybourne, C.L. 2-(1-hydroxyethyl)-2-desvinyl chlorophyllide a: Characterisation by nuclear overhauser enhancement proton magnetic resonance of a novel pigment obtained from mutants of *Phodopseudomonas sphaeroides*, 5703
- Houk, K.N. see Bimanand, A.Z. 435
- Houk, K.N. see Mueller, P.H. 485
- Hovius, K., Wagenaar, A. and Engberts, J.B.F.N. Intramolecular sulfonamide-carboxamide rearrangement, 3137
- Howard, A.S., Katz, R.B. and Michael, J.P. Thiolactams in alkaloid synthesis: A particularly short synthesis of *dl*- Δ -mesembrenone, 829
- Howard, J.A.K. see Bryce, M.R. 1205
- Howarth, T.T. see Brown, A.G. 2693
- Howbert, J.J. see Wender, P.A. 5325
- Hoye, T.R. and Kurth, M.J. Preparation of *d*, *l*-megaphone intermediates, 4769
- Hoz, S., Aurbach, D. and Avivi, C. An unexpected β -elimination from 3,3-difluorocyclobutanecarbonitrile, 1639
- Hoz, S. see Buncel, E. 4777
- Hubiec, R.T. and Smith, M.B. Homoallylic substitution reaction of piperidine with 1-bromo-1-cyclopropylalkanes, 5031
- Hrubowchak, D.M. and Smith, F.X. The reduction alkylation of Meldrum's acid, 4951
- Hsiao, C.-N. and Shechter, H. 1-Lithio-1-benzenesulfinyl-2-trimethylsilylethane as a 2-trimethylsilylvinyl anion equivalent in reactions with aldehydes, ketones and epoxides, 2371
- Huan, Z., Landgrebe, J.A. and Peterson, K. Deoxygenation of aldehydes and ketones; a new general reaction of dibromocarbene and dibromocarbonyl ylides, 2829
- Huang, M.-F. see Liu, J.-S. 2351, 2355
- Huang, S.-B. see Chou, T.-S. 2169
- Huber, F.X. see Balcar, J. 1481
- Huber, W. Radical trianions of conjugated hydrocarbons. New models for ESR spectroscopy, 3595
- Huch, V. see Veith, M. 4219
- Huche, M., Aubouet, J., Pourcelot, G. et Berlan, J. Addition diastéréosélective sur une double liaison $>\text{C}=\text{C}<$ en α -d'une oxazolidine chirale, 585
- Huesmann, P.L. see Chen, Y. 1021
- Huffman, J.C. see Grieco, P.A. 3807
- Hughes, I. and Raphael, R.A. Synthesis of arcyriaflavin B, 1441
- Hughes, J.W. see Sternbach, D.D. 3295
- Huguet, J., Karpf, M. and Dreiding, A.S. Synthesis of a stereoisomer of phthalide, 4177
- Hui, R.C. see Seyferth, D. 4907
- Hui, Y. see Moss, R.A. 3961
- Hui, E.M. see Confalone, P.N. 5563
- Huisgen, R. see Li, X. 4181
- Huisgen, R. and Li, X. The activity scale of dipolarophiles versus thiobenzophenone S-methylide, 4185
- Huizer, A.H. see Kamphuis, J. 2299
- Huneck, S., Asakawa, Y., Taira, Z., Cameron, A.F., Connolly, J.D. and Rycroft, D.S. Gymnocolin, a new *cis*-clerodane diterpenoid from the liverwort *Gymnocolea inflata*. Crystal structure analysis, 115
- Huneck, S., Baxter, G., Cameron, A.F., Connolly, J.D. and Rycroft, D.S. Anadensin, a new fusicoccane diterpenoid from the liverwort *Anastrepta orcadensis*. Crystal structure analysis, 3787
- Hungate, R.W. see Lipshutz, B.H. 5155
- Hunkler, D. see Maas, M. 2143
- Hunkler, D. see Beck, A. 2151
- Hunt, A.H. see Phillips, M.L. 335
- Hunt, P.G. see Durman, J. 2113
- Hunt, P.G. see Brownbridge, P. 3391
- Husebye, S. see Gramstad, T. 3919
- Hussain, A. and Parrick, J. Formation of 1-chlorobenzocyclobutene, anthracene or benzofuran by flash vacuum pyrolysis, 609
- Husson, A., Besselière, R. and Husson, H.-P. A short and efficient synthesis of phenolcarboxamides, 1031
- Husson, H.-P. see Husson, A. 1031
- Husson, H.-P. see Bonin, M. 1493
- Husson, H.-P. see Medina, D.H.G. 2099
- Hutchings, M.G. see Gasteiger, J. 2537
- Hutchings, M.G. and Gasteiger, J. Residual electronegativity – an empirical quantification of polar influences and its application to the proton affinity of amines, 2541
- Hwu, J.R. see Pirrung, M.C. 565
- Hyama, T., Tomoda, S., Takeuchi, Y. and Nomura, Y. Reaction of trimethyl-(2-nitrovinyl)silane with organometallic compounds. An example of reactivity umpolung of 1-alkenylsilane, 2795
- Ibar, G. see Quast, H. 5595
- Ibata, K. see Suzuki, S. 5103
- Ibragimov, M.A. and Smit, W.A. Reaction of silyl enol ethers with β -halogenoalkyl aryl sulfides – a method of β -arylothioalkylation of carbonyl compounds, 961
- Ichihara, A., Tazaki, H. and Sakamura, S. Solanapyrones A, B and C, phytotoxic metabolites from the fungus *Alternaria solani*, 5373
- Ichikawa, T., Namikawa, M., Yamada, K., Sakai, K. and Kondo, K. Novel cyclopentenonyl fatty acids from mosses, *dicaranum scorpiorum* and *dicranum japonicum*, 3337

- Iddon, B., Price, D., Suschitzky, H. and Scopes, D.I.C. Beckman cleavage of 1,2,3,4,5,6-hexahydro-3,6-dimethyl-2,6-methano-3-benzazocin-11-one oxime (2,5-dimethyl-9-oxo-6,7-benzo-morphan oxime); a new route to 3-benzazocines, 413
- Iddon, B. see Daly, C.M. 5147
- Iden, R. see Martin, H.-D. 5469
- Iguchi, K. see Momose, D. 921
- Iguchi, K. see Kikuchi, H. 1549
- Iguchi, K., Yamada, Y., Kikuchi, H. and Tsukitani, Y. Novel C-20-oxygenated prostanoids, 20-acetoxyclavulones, from the stolonifer *Clavularia viridis* Quoy and Gaimard, 4433
- Iguchi, S. see Corey, E.J. 37
- Ihara, M. see Nemoto, H. 4257
- Iida, H. see Ogura, K. 503, 5761
- Iida, S. see Fujisawa, T. 5745
- Itakura, Y. see Hirose, Y. 1535
- Itakura, Y. see Xin-Sheng, Y. 2407
- Itakura, Y. see Hisatome, M. 5757
- Iizumi, T. see Arai, K. 1531
- Ikariya, T. see Ishii, Y. 2677
- Ikeda, K., Achiwa, K. and Sekiya, M. Trifluoromethanesulfonic acid-promoted reaction of hexahydro-1,3,5-triazines with ketene silyl acetals. Convenient synthesis of alkyl β -aminocarboxylates, 913
- Ikeda, K., Achiwa, K. and Sekiya, M. Facile synthesis of alkyl β -benzyl oxyaminocarboxylates related to monocyclic β -lactams, 4707
- Ikeda, N. see Ukai, J. 4029
- Ikeda, Y. see Ukai, J. 4029
- Ikegami, S. see Shibusaki, M. 3493, 3497
- Ikekawa, N. see Takatsuto, S. 773, 917
- Ikura, M. see Aoyagi, F. 1991
- Illoste, J.-B. see Deschamps-Vallet, C. 3993
- Iloughmane, H. see Laporterie, A. 3521
- Imai, K. see Kondo, N. 925
- Imamoto, T. see Hatanaka, Y. 2399
- Imamoto, T., Kusumoto, T. and Yokoyama, M. A new aldol reaction via cerium enolates, 5233
- Imbach, J.L. see Vasseur, J.J. 2753
- Imhof, R. see Arnold, W. 343
- Imoto, M. see Inage, M. 2011
- Imoto, M., Kusumoto, S., Shiba, T., Naoki, H., Iwashita, T., Rietschel, E.Th., Wollenweber, H.-W., Galanos, C. and Lüderitz, O. Chemical structure of *E. coli* lipid A: Linkage site of acyl groups in the disaccharide backbone, 4017
- Imoto, T. see Ogawa, H. 1045
- Imre, S. see Alpertunga, B. 4461
- Inaba, M. see Hosomi, A. 4727
- Inaba, S. and Rieke, R.D. Metallic nickel: A coupling reagent of benzyl halides and acyl halides to yield benzyl ketones, 2451
- Inaba, T. see Ogura, K. 503
- Inada, M. see Sugawara, T. 1723
- Inage, M., Chaki, H., Imoto, M., Shimamoto, T., Kusumoto, S. and Shiba, T. Synthetic approach to lipid A: Preparation of phosphorylated disaccharides containing (R)-3-hydroxyacyl and (r)-3-acyloxyacyl groups, 2011
- Inamoto, N. see Kawashima, T. 739
- Inamoto, N. see Yoshifuji, M. 933, 4227
- Inamoto, N. see Yoshifuji, M. 4855
- Inamoto, N., Masuda, S., Tori, K. and Nishikawa, J. Substituent effects on ^{13}C -SCS of substituted ethenes and propenes, 5265
- Inazu, T. see Miyahara, Y. 5277
- Inoue, I. see Horikawa, H. 2193
- Inoue, T. see Kamitori, Y. 2575
- Inouye, S. see Seto, H. 495, 1805
- Inubushi, Y. see Harayama, T. 5241
- Iqbal, J. see Fleming, I. 327, 2913
- Ireland, C.M. see Biskupiak, J.E. 3055
- Irie, H. see Kouno, I. 771
- Irving, J.R., Perrone, E. and Stoodley, R.J. A new reductive acetylation of sulphinic acids and its application to the synthesis of 2-acetylthio-4-oxoazetidines, 1429
- Irving, J.R., Perrone, E. and Stoodley, R.J. Contrasting thermal behaviour of diastereoisomeric 4-acetylthio-3-acylamino-1-(α -triphenylphosphoranylidene) alkoxy carbonylmethylazetidin-2-ones, 2501
- Isaacs, N.S. and Laila, A.H. Reactions at high pressure, part 12; the volume profile for thermolysis of a beta-lactone, 2897
- Isaev, S.D. see Klimko, Y.E. 3259
- Ishibashi, H., Akai, S., Choi, H.-D., Nakagawa, H. and Tamura, Y. Polar cycloaddition of α -acyl- α -chlorosulfides with alkynes. Novel one-step syntheses of furans and 2-furanones, 3877
- Ishibashi, K. see Asaoka, M. 5127
- Ishibashi, M., Tsuyuki, T. and Takahashi, T. Conversion of ailanthone into shinjulactone C through an ionic [4 + 2] cyclo-addition reaction, 4843
- Ishida, R. see Enoki, N. 4341
- Ishida, Y., Sasatani, S., Maruoka, K. and Yamamoto, H. A new synthesis of imidoil iodides via Beckmann rearrangement of oxime sulfonates, 3255
- Ishiguro, H. see Hara, S. 735
- Ishihara, T. see Yamana, M. 507
- Ishihara, T., Maekawa, T. and Ando, T. Novel synthesis of *F*-1-alkene-1-phosphonate derivatives from *F*-alkanoyl chlorides and their efficient use for preparing fluoroo- α , β -enones, 4229
- Ishihara, T., Yamana, M. and Ando, T. Organocuprate-induced substitution of the enol oxygen moiety in 2,2-difluoro enol phosphates with allyl halides: A novel route to *gem*-defluoroolefins from chlorodifluoromethyl ketones, 5657
- Ishii, T. see Kawashima, T. 739
- Ishii, Y., Osakada, K., Ikariya, T., Saburi, M. and Yoshikawa, S. Catalytic regioselective dehydrogenation of unsymmetrical α , ω -diols using ruthenium complexes, 2677
- Ishikawa, Y. see Shinkai, S. 1539
- Ishimaru, T. see Hatanaka, M. 4837
- Ishitsuka, M., Kusumi, T., Kakisawa, H., Kawakami, Y., Nagai, Y., Sato, T. Structure and conformation of pachylactone, a new diterpene isolated from the brown alga, *Pachydictyon coriaceum*, 5117
- Ishizu, K. see Mukai, K. 5099
- Isimura, A. see Uneyama, K. 2857
- Isobe, M. see Kondo, N. 925
- Isogai, K. see Ogino, T. 2781
- Itagawa, K. see Ojima, J. 5273
- Itano, H.A. see Hirota, T. 995
- Itaya, H. see Oikawa, Y. 1987
- Ito, S. see Kodama, M. 83
- Ito, S. see Fukazawa, Y. 2199
- Ito, S. see Saito, H. 3879
- Ito, S. see Fujise, Y. 4261
- Ito, S., Aihara, K. and Matsumoto, M. Ruthenium-catalyzed oxidation of phenols with hydrogen peroxide, 5249
- Ito, T. see Takaku, H. 5363
- Ito, Y., Nakajo, E., Nakatsuka, M. and Saegusa, T. A new approach to gephyrotoxin, 2881
- Ito, Y. and Yamaguchi, M. Stereoselective reduction of 3-oxo amides with zinc borohydride, 5385
- Itoh, K. see Nagashima, H. 2395
- Itoh, K. see Nishiyama, H. 4021
- Itoh, S. see Ohshiro, Y. 3465
- Ittah, Y. see Yagi, H. 1349
- Ivanics, J., Simonidesz, V.,

- Galambos, G., Körmöczy, P. and Kovács, G.** Synthesis of prostacyclin analogues via Knoevenagel condensation, 315
- Ivanics, J.** see Galambos, G. 1281
- Iwaki, M.** see Tezuka, T. 3109
- Iwamoto, H., Sonoda, T. and Kobayashi, H.** A facile *in-situ* diazo-coupling reactions under two-phase conditions catalyzed by tetrakis [3,5-bis(trifluoromethyl)phenyl]borate ion, 4703
- Iwamoto, R.T.** see Ellison, D.K. 31
- Iwamura, H.** see Kawada, Y. 791
- Iwamura, H.** see Sugawara, T. 1723
- Iwamura, H.** see Kawada, Y. 5359
- Iwano, Y.** see Hirai, K. 3251
- Iwao, M. and Kuraishi, T.** Synthesis of (\pm)-sesbanine via directed metalation of tertiary nicotinamides, 2649
- Iwasaki, M.** see Hanaoka, M. 3845
- Iwasaki, S.** see Funabashi, H. 2673
- Iwasaki, S.** see Furukawa, J. 5257, 5261
- Iwasaki, T.** see Horikawa, H. 2193
- Iwashita, M.** see Hirama, M. 1811
- Iwashita, T.** see Imoto, M. 4017
- Iyer, V.S.** see Adcock, W. 5901
- Iyoda, M.** see Kanao, Y. 1727
- Iyoda, M., Tanaka, S., Nishioka, K. and Oda, M.** Synthesis and properties of butatrienes containing a bisdehydro[13]anulene system as terminal groups, 2861
- Izawa, T.** see Okano, K. 217
- Izawa, Y.** see Suzuki, N. 3005
- Izawa, Y.** see Tomioka, H. 3353
- Izumi, T.** see Kamitora, Y. 2575
- Izumi, Y.** see Matsuda, I. 2787
- Izumi, Y.** see Sato, S. 3855
- Izumiya, N.** see Tanimura, K. 3737
- Jabri, N., Alexakis, A. and Normant, J.F.** Alkenyl-copper derivatives XXIV. Stereospecific synthesis of enones by palladium catalysed acylation of alkenyl-copper reagents, 5081
- Jackman, L.M.** see Fajardo, V. 155
- Jackman, L.M.** see Quast, H. 5595
- Jackson, D.A., Rey, M. and Dreiding, A.S.** Preparation of 2-vinylcyclobutanones and their conversion of cyclopentenones, 4817
- Jackson, R.F.W. and Raphael, R.A.** New synthesis of bullatone and geiparvarin, 2117
- Jacob, L., Julia, M., Pfeiffer, B. and Rolando, C.** On the role of the phosphate residues in geranyl pyrophosphate biosynthesis, 4327
- Jacobs, E., Ferreira, D. and Roux, D.G.** A tropoisomerism in a new class of condensed tannins based on biphenyl and *O*-terphenyl, 4627
- Jacobs, R., Feutrill, G. and Meinwald, J.** Phenylcamphoric acid: Stereochemistry and epimerization, 2441
- Jacquesy, J.C.** see Gesson, J.P. 2757, 2761, 3095
- Jacquesy, J.-C., Jouannetaud, M.-P. et Morellet, G.** Hydroxylation des naphtols en milieu superacide, 3099
- Jacquier, R.** see Bernardini, A. 3717
- Jacquier, R.** see Bajgrowicz, J.A. 3721
- Jaeger, D.A. and Bernhardt, E.A.** Photolysis of *cis*- and *trans*-2(3,5-dimethoxyphenyl)cyclopentyl methanesulfonate. Stereoelectronic requirement for photosolvysis, 4521
- Jáen, J.C.** see Marino, J.P. 441
- Jäger, V., Schohe, R. and Paulus, E.F.** Asymmetric induction in nitrile oxide cycloadditions to 3-butene-1,2-diol and derivatives, 5501
- Jahangir**, see Holland, H.L. 1577
- Jähne, G.** see Gleiter, R. 5063
- Jain, P.K.** see Saxena, S. 3401
- Jakupovic, J.** see Massanet, G.M. 1641
- Jalali, M., Boussac, G. and Lallemand, J.-Y.** A new preparation of furo-2,3b furans, and conformational studies by 2D NMR, 4307
- James, D.C.** see Peltier, A. 3133
- James, T.R.** see Grode, S.H. 691
- Jamieson, S.V.** see Cormbie, L. 3129
- Janout, V. and Čefelin, P.** Poly(styrylmethylthiol) as an efficient debrominating reagent of 11,2-dibromides, 3913
- Jansen, A.C.A.** see Brussee, J. 3261
- Jansen, R. and Höfle, G.** Revised stereochemistry of piericidin A₁, 5485
- Januszkiewicz, K. and Alper, H.** Palladium and phase transfer catalyzed oxidation of olefins to ketones. Sensitivity of the reaction to the nature of the phase transfer agent, 5159
- Januszkiewicz, K. and Alper, H.** Synthesis of methyl ketones by rhodium and ruthenium catalyzed oxidation reactions under phase transfer conditions, 5163
- Janzen, E.G. and Oehler, U.M.** An ESR and ENDOR study of intramolecular and intermolecular addition reactions of benzoyl and substituted benzoyl radicals to nitroaromatic compounds. A two-step oxygen atom abstraction reaction, 669
- Jarvis, B.B., Vrudhula, V.M. and Pavanarasivam, G.** Trichoverritone and 16-hydroxyrordin L-2, new trichothecenes from *Myrothecium roridum*, 3539
- Jarvis, T.C.** see Bradley, J.P. 2851
- Jas, G.** see Altnau, G. 45
- Jefford, C.W., Rossier, J.-C., Zuber, J.A., Kennard, O. and Cruse, W.B.T.** Evidence for homoquadracyclene, a possible carbon ylide, 181
- Jeffreys, J.A.D., Zakaria, M., Waterman, P.G. and Zhong, S.** A new class of natural product homologues of juglone bearing 4-hydroxy-5-methylcoumarin-3-yl units from *Diospyros* species, 1085
- Jellal, A., Zahra, J.-P. and Santelli, M.** Ethylenic acyl cyanides II: Conjugate addition of alkynylsilanes to ethylenic acyl cyanides, 1395
- Jellal, A. and Santelli, M.** Ethylenic acyl cyanides III: Base induced self-condensation of ethylenic acyl cyanides, 2847
- Jenner, G., Srivastava, S. and Le Noble, W.J.** Solvolysis of 9-chloropentacyclo[4.3.0.0^{2,4}.0^{3,8}.0^{5,7}]nonane ("Coates' chloride") under pressure, 2429
- Jenner, G.** see Srivastava, S. 2431
- Jennings, L.J.A.** see Ferres, H. 3769
- Jensen, R.A.** see Zamir, L.O. 2815
- Jerina, D.M.** see Lehr, R.E. 27
- Jerina, D.M.** see Yagi, H. 1349
- Jerina, D.M.** see van Bladeren, P.J. 4903
- Jesser, F.** see Leyendecker, F. 3513
- Jesudason, M.V.** see Bushby, R.J. 4743
- Jiang, Z.Q. and Foote, C.S.** Electron-transfer photooxygenation. 8. Trapping of internal nucleophiles, 461
- Jitsukawa, K.** see Kaneda, K. 5009
- John, L.S.** see Moriarty, R.M. 1139
- Johne, S.** see Seifert, K. 2841
- Johnson, C.D.** see Bradley, J.P. 2851
- Johnson, D.M.** see Spessard, G.O. 655
- Johnson, D.T.** see Schwarz, M. 1007
- Johnson, R.P.** see Klett, M.W. 1107, 2523
- Jończyk, A., Dabrowski, M. and Woźniak, W.** A new reaction of 1,1-dichloro-2halo-methylcyclopropanes in basic medium, 1065

- Jones, A.L. see Battiste, M.A. 307
 Jones, M.A. see Dean, F.M. 2495
 Jones, N.D. see Phillips, M.L. 335
 Jones, O.T.G. see Houghton, J.D. 5703
 Jones, P.G. see González, A.G. 959, 3765
 Jones, P.S. see Davies, D.T. 519
 Jones, R.C.F. and Peterson, G.E. Directed metallation of tetrameric acids: a new synthesis of 3-acyl tetrameric acids, 4751
 Jones, R.C.F. and Peterson, G.E. An unusual bond migration during *O*-acylation of tetrameric acids, 4755
 Jones, R.C.F. and Peterson, G.E. Acylation of pyrrolidine-2,4-diones: boron difluoride complexes of 3-acyl tetrameric acids, 4757
 Jones, R.L. see Corey, E.J. 4913
 Jones, T.H. and Fales, H.M. E-6-(1-pentenyl)-2H-pyran-2-one from carpenter ants (*Camponotus* spp.), 5439
 Jordis, U. see Daly, C.M. 5147
 Jorge, Z.D. see Murray, R.D.H. 3403, 3773, 5897
 Jorgensen, F.S. and McCabe, P.H. *cis*-disulfides. Photoelectron spectrum of a 6,7-dithiabicyclo[3.2.1]octane, 319
 Jorgensen, F.S. On the molecular and electronic features of *syn*- and *anti*-sesquibornene, 5289
 Jørgensen, F.S. and Paddon-Row, M.N. On the presence of extremely short H...H non-bonded distances, and orbital interactions through eight σ bonds or through two methylene groups in tetramethanonaphthalenes, 5415
 Jouannetaud, M.-P. see Gesson, J.P. 3095
 Jouannetaud, M.-P. see Jacquesy, J.-C. 3099
 Joullié, M.M. see Chen, S.-Y. 5027
 Joussef, A.C. see Mascheres, A. 1837
 Józwiak, A. see Epszajn, J. 4735
 Julia, M., Lavé, D., Mulhauser, M., Ramirez-Munoz, M. and Uguen, D. Organic syntheses with sulfones (part XXVIII). Synthesis of terpenoid compounds by way of Michael addition reactions to conjugated dienyl sulfones, 1783
 Julia, M. see Fabre, J.-L. 4311
 Julia, M. see Cuvigny, T. 4315, 4319
 Julia, M. see Jacob, L. 4327
 Julia, M. see Badet, B. 4331
 Julia, S. see Ruel, O. 61
 Julia, S.A. see Reglier, M. 2387
 Julia, S.A. see Ekogha, C.B.B. 4825
 Julia, S.A. see Ruel, O. 4829
 Jullien, J., Pechine, J.M. and Perez, F. Flash pyrolysis: a route to " α -ketenic esters", 5525
 Jung, M.E. and Hatfield, G.L. Synthesis of syn-7-benzyloxy-4-methyl-bicyclo[2.2.1]hept-5-en-2-one, an intermediate for the synthesis of steroids and tricothecanes; tandem anionic [1,3]-[3,3] sigmatropic rearrangement, 2931
 Jung, M.E. and Hatfield, G.L. Facile synthesis of (3*S*)-1,3*a*-dimethyl-2,3,3*a*,5,6,7-hexahydroinden-4(5*H*)-one, an intermediate for steroid synthesis, 3175
 Jung, M.E., Hagenah, J.A. and Long-Mei, Z. Simple, stereospecific preparation of Z-3-iodoacrylic acid from propionic acid and methyl-magnesium iodide, 3973
 Jung, M.E. and Long-Mei, Z. Reactions of oximes with trimethylsilyl iodide: Dehydration and Beckmann rearrangement, 4533
 Kabeto, K. see Hayashi, T. 2865, 5661
 Kachholz, T. see Büchi, G. 2527
 Kadahara, A. see Saigo, K. 511
 Kadib-Elban, A. see Barbot, F. 5089
 Kagan, H.B. see Namy, J.L. 765
 Kagan, J. and Arora, S.K. The synthesis of alpha-thiophene oligomers via organoboranes 4043
 Kagano, H. see Mizuno, K. 3849
 Kageyama, A. see Hasegawa, T. 1995
 Kageyama, M. see Burke, S.D. 4529
 Kahn, M. see Stork, G. 3951
 Kahn, Ph. see Desmaële, D. 3079
 Kaji, A. see Ono, N. 3477
 Kakimoto, N. see Takakusaki, K. 1707
 Kakisawa, H. see Ishitsuka, M. 5117
 Kakiuchi, K. see Tobe, Y. 3639
 Kalchhauser, H. see Haslinger, E. 2553
 Kaletta, B. see Krebs, A. 4821
 Kalinovsky, A.I. see Kicha, A.A. 3893
 Kallmerten, J. and Gould, T.J. Enolate Claisen rearrangement of glycolate esters, 5177
 Kalvoda, J. see Wieland, P. 5603
 Kamada, T. see Shiojima, K. 5733
 Kamakshi, C. see Pelter, A. 3133
 Kamal, G.M., Guntherath, B. and Gunatilaka, A.A.L. 23-oxo-isopristimerin III: A new natural phenolic (9 \rightarrow 8)-24-nor-*D*:*A*-friedo-oleanan triterpene, 2799
 Kamat, V.P. see Shitole, H.R. 4739
 Kametani, T. see Shishido, K. 2783
 Kametani, T. see Nemoto, H. 4257
 Kametani, T., Kanaya, N., Mochizuki, T. and Honda, T. Ring expansion reactions of penicillin derivatives by rhodium-catalysed decomposition of diazoketones – stereoselective syntheses of eight-membered $\alpha\beta$ -lactams, 221
 Kametani, T., Kanaya, N., Mochizuki, T. and Honda, T. Novel transformation of penicillin into penem nucleus – synthesis of 2-carboxylinpem derivative, 1511
 Kameyama, K. see Maki, Y. 779
 Kamiguchi, T. see Tsuji, N. 389
 Kamikawa, T. see Kubo, I. 3825
 Kamimura, T., Tsychiya, M., Koura, K., Sekine, M. and Hata, T. Diphenylcarbamoyl and propionyl groups: A new combination of protecting groups for the guanine residue, 2775
 Kamitorii, Y., Hojo, M., Masuda, R., Inoue, T. and Izumi, T. Lithium aluminium hydride on silica gel – selective reduction of ketones and carboxy esters in the presence of nitro and cyano groups, 2575
 Kamphuis, J., Grootenhuis, P.D.J. and Bos, H.J.T. Thermal [$\pi^2S + \pi^2S + \pi^2S$]-cycloaddition of thiobenzophenone to substituted phenylallenes. Hammett correlation of rates and ionization energies, 101
 Kamphuis, J., Visser, R.G., Bos, H.J.T., Mackor, A. and Huizer, A.H. ESR identification and conformation of a persistent free radical in the (4 + 2)-cyclo-addition reaction of xanthene-thione with phenylallene, 2299
 Kanao, Y., Iyoda, M. and Oda, M. The effect of cyclobutene ring annelation of *p*-benzoquinone: Synthesis and properties of 1,2,3,4,5,6-hexahydrobenzo[1,2,4,5]-dicyclobutene-3,6-dione ([2,3,:5,6] dicyclobutap-benzoquinone), 1727
 Kanaya, N. see Kametani, T. 221, 1511
 Kanazawa, T. see Shono, T. 1259, 4577
 Kaneda, K., Kawanishi, Y., Jitsukawa, K. and Teranishi, S. Highly selective oxidation of secondary hydroxyl functions

- using the $\text{VO}(\text{acac})_2\text{-tBuOOH}$ system, 5009
- Kaneko, T., Wong, H. and Doyle, T.W.** A new and mild method for the reduction of secondary amides to carbinolamine ethers and imines: A conversion of oxotomaymycin to tomaymycin, 5165
- Kanematsu, K.** see Okamoto, Y. 5645
- Kanemoto, S., Oshima, K., Matsubara, S., Takai, K. and Nozaki, H.** Transition-metal catalysed oxidation of alcohols to aldehydes and ketones by means of $\text{Me}_3\text{SiOOSiMe}_3$, 2185
- Kang, G.J.** see Chan, T.H. 3051, 3187
- Kang, J.** see Corey, E.J. 4913
- Kang, M.** see White, J.D. 4539
- Kang, S.H.** see McWhorter, W.W. 2243
- Kang, S.I.** see Czech, B. 457
- Kano, S., Yokomatsu, T., Yuasa, Y. and Shibuya, S.** A facile and efficient stereoselective synthesis of 6-hydroxy-*trans*-4-phenyl-decahydroisoquinoline, 1813
- Kanoh, S.** see Suda, H. 1513
- Kantner, S.S.** see Corey, E.J. 265
- Kaouadji, M., Puech-Baronnat, M. et Mariotte, A.-M. (Z)** Ligustilidol, nouveau phtalide hydroxyle isolé de *Ligusticum wallighii* Franch, 4675
- Kaouadji, M., Reutenerauer, H., Chulia, A.J. et Marsura, A. (Z), (Z')** diligustilide, nouveau phtalide dimère isolé de *Ligusticum Wallighii* Franch, 4677
- Kaouadji, M. et Favre-Bonvin, J.** Herpetrione, lignoïde trimère isolé d'*herpetospermum Caudigerum*, 5881
- Kapnang, H. et Charles, G.** Nouvelle méthode de Préparation d'amines tertiaires, 1597
- Kapnang, H. et Charles, G.** Réaction des chloroformiates sur les amines tertiaires competition entre *N*-diméthylation, désamination, *N*-débenzylation et *N*-désallylation, 3233
- Karaghiosoff, K., Majoral, J.P., Meriem, A., Navech, J. and Schmidpeter, A.** 1,3,2-diaza-phosphole derivatives from the reaction of $\text{PCl}_n(\text{NR}_2)_3-n$ with diaminomaleonitrile, 2137
- Karanewsky, D.S.** see Duggan, M.E. 2935
- Karatsu, T.** see Arai, T. 2873
- Karpf, M.** see Huguet, J. 4177
- Kasamatsu, S.** see Yamanaka, E. 3861
- Kascheres, A. Joussef, A.C. and Duarte, H.C.** A route to 2,2-dihydro-5-imino-1,2-oxaphosphol-3-enes, 1837
- Kashima, C., Shimizu, M., Katoh, A. and Omote, Y.** Independent synthesis of three type of *N*-substituted dihydropyrimidines and their reactions with malachite green, 209
- Kashman, Y.** see Carmely, S. 3673
- Katagiri, S.** see Takahashi, K. 205
- Kataoka, M.** see Hori, M. 3773
- Kataoka, T., Tomimatsu, K., Shimizu, H. and Hori, M.** Stable selenoxanthenium ylides: Synthesis and new reductive cyclization of selenoxanthen-10(10)-alkoxalyl alkoxycarbonyl methanides and their related compounds, 75
- Kataoka, T.** see Hori, M. 3733
- Kataoka, T.** see Onogi, K. 4337
- Katayama, E.** see Suzuki, K. 4997
- Katayama, M., Marumo, S. and Hattori, H.** The revised structure of sclerosporin, a sporogenic substance of *Sclerotinia fructicola*. The total synthesis of (\pm)-sclerosporin, 1703
- Kato, J.** see Ohshiro, Y. 3465
- Kato, K.** see Yagisawa, N. 931
- Kato, N.** see Schneider, J.A. 3859
- Kato, N.** see Morita, M. 5631
- Kato, T.** see Aoki, M. 2267
- Kato, T.** see Tanimura, K. 3737
- Kato, T.** see Uyehara, T. 4445
- Kato, T., Yamaguchi, Y., Uyehara, T., Yokoyama, T., Namai, T. and Yamanaka, S.** Self defensive substances in rich plant against rice blast disease, 4715
- Kato, Y.** see Fusetani, N. 2771
- Kato, Y.** see Tamura, H. 5749
- Katoh, A.** see Kashima, C. 209
- Katsube, Y.** see Kouno, I. 771
- Katsuki, H.** see Hata, S. 4729
- Katsuki, T.** see Kawanami, Y. 5131
- Katsuno, H.** see Sato, F. 1809
- Katz, R.B.** see Howard, A.S. 829
- Kawada, M.** see Mandai, T. 1171, 1517, 4993
- Kawada, Y., Iwamura, H., Okamoto, Y. and Yuki, H.** Stereoisomerism in molecular bevel-gears. Optical resolution of the DL isomers of bis(2- and 3-chloro-9-triptycyl)methanes and ethers, 791
- Kawada, Y., Okamoto, Y. and Iwamura, H.** Correlated internal rotation in bis(2,6-dichloro-9-triptycyl)methane. To what extent can phase isomers be separated and identified?, 5359
- Kawagishi, T.** see Yanaka, T. 4103
- Kawahori, K.** see Goto, T. 2181
- Kawai, M. and Rich, D.H.** Total synthesis of the cyclic tetrapeptide, HC-toxin, 5309
- Kawai, T.** see Furukawa, N. 3243
- Kawakami, Y.** see Ishitsuka, M. 5117
- Kawanami, Y., Katsuki, T. and Yamaguchi, M.** Synthesis of acetylenic ketones from thiol esters and 1-alkynyltrimethylsilanes, 5131
- Kawanisi, M.** see Yamaguchi, R. 1801
- Kawanishi, Y.** see Kaneda, K. 5009
- Kawano, N.** see Kouno, I. 771
- Kawasaki, A.M.** see Beylin, V.G. 4793
- Kawase, T.** see Yoshida, Z. 3469,
- Kawashima, T., Ishii, T. and Inamoto, N.** Fluoride ion induced Horner-Emmons reaction of α -silylalkylphosphonates with carbonyl compounds, 739
- Kay, I.T. and Pelter, A.** 523
- Kay, I.T. and Williams, E.G.** Spiroketals: The synthesis of an olive fly pheromone component, 4-hydroxy-1,7-dioxaspiro[5.5]-undecane, via a novel cation-olefin cyclisation step, 5915
- Kaye, A.D.** see Campbell, M.M. 4745
- Kayser, M.M., Eliev, S. and Eisenstein, O.** Reduction of ketones by sodium borohydride in the absence of protic solvents. Inter versus intramolecular mechanism, 1015
- Kazarians-Moghaddam, H.** see Lee-Ruff, E. 2067
- Keene, B.R.T.** see Bedford, R. 1553
- Keinze, F.** A facile synthesis of 1,4-dihydro-1-alkyl-2H-3,1-benzodiazazines and related compounds, 2213
- Kelleher, W.J.** see Beecher, C.W.W. 469
- Keller, P.J.** see Stöckigt, J. 2485
- Kellner, D. and Loewenthal, H.J.E.** Synthesis of isoclovene, 3397
- Kelly, L.F.** see Bandara, B.M.R. 2491
- Kelly, T.R., Behforouz, M., Echavarren, A. and Vaya, J.** Synthesis of the rifamycin chromophore, 2331
- Kenan, W.R., Jr.** see Manoharan, M. 1855
- Kennard, O.** see Jefford, C.W. 181

- Kennewell, P.D.** see Dordor, I.M. 1437
- Kern, H.** see Holenstein, J.E. 4059
- Kesler, E.** see Sterner, O. 1415
- Kessler, H.** and Siegmeier, R. 9- Fluoromethyl esters as carboxyl protecting group, 281
- Ketcha, D.M.**, Abou-Gharia, M., Smith, F.X. and Swern, D. Reaction of *N*-acylsulfilimines with diphenyl ketene. A new synthesis of 2-oxazolin-4-ones, 2811
- Keve, T.** see Szántay, C. 5539
- Kevill, D.N.** Concerning the electrophilic perchloration of alkenes, 1211
- Khachik, F.** see Mazzocchi, P.H. 1879
- Khajavi, M.S.** see Manhas, M.S. 2323
- Khalaf, A.I.** see Horspool, W.M. 3745
- Khan, M.A.** see Brown, P.J. 405
- Khan, R.H.** see Zoretic, P.A. 1125
- Khanna, I.** see Mitscher, L.A. 4809
- Khanna, R.K.** see Singh, P.R. 973, 1411
- Khor, T.C.** see Bandara, B.M.R. 2491
- Khoung-Huu, F.** see Onanga, M. 3627
- Kicha, A.A.**, Kalinovsky, A.I., Levina, E.V., Stonik, V.A. and Elyakov, G.B. Asterosaponin P₁ from the starfish *Patiria pectinifera*, 3893
- Kido, M.** see Onogi, K. 4337
- Kidoura, K.** see Kumagai, T. 2275
- Kieboom, A.P.G.** see Peters, J.A. 3141
- Kihlberg, J.**, Bergman, R., Nilsson, L., Sterner, O. and Wickberg, B. The structure of a novel sesquiterpene furan alcohol with a lactarane skeleton, 4631
- Kikuchi, H.**, Tsukitani, Y., Iguchi, K. and Yamada, Y. Absolute stereochemistry of new prostanoids clavulone I, II and III, from *Clavularia viridis* Quoy and Gaimard, 1549
- Kikuchi, H.** see Iguchi, K. 4433
- Kikuchi, J.** see Kondo, H. 2403
- Kim, B.** and Regen, S.L. Vacillating reactions, 689
- Kim, N.I.** see Lee, I. 4723
- Kim, S., Kim, Y.C.** and Lee, J.I. A new convenient method for the esterification of carboxylic acids, 3365
- Kim, S., Kim, Y.J.** and Ahn, K.H. Selective reduction of tertiary, allyl, and benzyl halides by zinc-modified cyanoborohydride in diethyl ether, 3369
- Kim, Y.C.** see Kim, S. 3365
- Kim, Y.J.** see Kim, S. 3369
- Kimmel, E.C.**, Holden, I., Segall, Y. and Casida, J.E. [E]-azoxybis-(methane)bis(3-chlorobenzoate): Potent mutagen from reaction of hexamethyl-phosphoramide, *N*-methylhydroxylamine and [E]-nitrosomethane dimer with 3-chloroperoxybenzoic acid, 2819
- Kimmel, T.** see Becker, D. 5505
- Kimura, K.** see Takai, K. 5281
- Kinast, G.** and Schröck, W. Stereospezifische, einstufige Hydroxylierung an C-6 von Penicillinen und C-7 von Cephalosporinen, 283
- King, F.D.** see Hadley, M.S. 91
- King, F.D.** A facile synthesis of quinolizidines and indolizidines, 3281
- King, R.W.** see Battiste, M.A. 307 2611
- King, T.J.** see Bycroft, B.W. 601
- Kingma, R.F.** see Fongers, K.S. 643, 1423
- Kingston, D.G.I.** see Gunatilaka, A.A.L. 5457
- Kinnel, R.B.** see Bonini, C. 277
- Kinoshita, M.** see Tatsuta, K. 4867
- Kinoshita, T.** see Ogita, T. 2283
- Kintzinger, J.P.** see Dietrich-Buchecker, C.O. 5095
- Kirkup, M.P.** and Moore, R.E. Indole alkaloids from the marine red alga *Martensia fragilis*, 2087
- Kirsch, J.H.** see Habermehl, G.G. 2981
- Kishi, N.** see Mikami, K. 795
- Kishi, Y.** see Leder, J. 1463
- Kishi, Y.** see McWhorter, W.W. 2243
- Kishi, Y.** see Cha, J.K. 3943
- Kishi, Y.** see Christ, W.J. 3947
- Kishida, M.** see Hori, M. 3733
- Kita, Y., Yasuda, H., Susiyama, Y., Fukata, F., Haruta, J. and Tamura, Y.** *O*-silylated ketene acetal chemistry: divinyloxsilane derivatives as novel and useful bifunctional protecting agents for H-acidic materials, 1273
- Kitamura, K.** see Takahashi, T. 3489, 4695
- Kitani, H.** see Wada, M. 1715
- Kitching, W.** see Laycock, B. 5785
- Kitching, W.** see Young, D. 5789, 5793
- Kitching, W.** see Adcock, W. 5901
- Kiuchi, F.** see Xin-Sheng, Y. 2407, 3247
- Kiyookda, S.** and Heathcock, C.H. Acyclic stereoselection. 20. High diastereofacial selectivity in the stannic chloride mediated reactions of allylsilanes with chiral α - and β -alkoxy aldehydes, 4765
- Klaébé** E. see Santesteban, F. 759
- Klaébé, A.** see Monnier, E. 3067
- Klang, J.A.** see Fristad, W.E. 2219
- Kleefeld, G.** see Martin, H.-D. 5469
- Klett, M.W.** and Johnson, R.P. Cumulene photochemistry: Photoaddition of neutral methanol to phenylallenes, 1107
- Klett, M.W.** and Johnson, R.P. Cumulene photochemistry: Phenyl and hydrogen migration in phenylallene photoreactions, 2523
- Klimko, Y.E., Isaev, S.D., Yurchenko, A.G. and Chizov, O.S.** A new approach to the bicyclo (5.2.1) decane system, 3259
- Klinger, L.** see Mazzocchi, P.H. 143
- Klumpp, G.W.** and Schakel, M. Diradicals in the vinylcyclopropane rearrangement of bicyclo[3.1.0]hexane derivatives, 4595
- Klumpp, G.W.** see Rood, I.D.C. 4599
- Klun, J.A.** see Schwarz, M. 1007
- Knierzinger, A.** see Lu, Y. 2433
- Knops, H.-J.** see Heine, H.-G. 2635
- Knops, H.-J.** und Born, L. Neuartige 3,5-Diarylpyridone und ihre Strukturzuordnung, 2973
- Knouzi, N.** see Vaultier, M. 763
- Ko, K.-Y.** see Eliel, E.L. 3547
- Kobayashi, H.** see Iwamoto, H. 4703
- Kobayashi, H.** see Ohno, A. 1263, 5123
- Kobayashi, J.** see Nakamura, H. 4105
- Kobayashi, K.** see Okuyama, E. 3113
- Kobayashi, K.** and Hiyama, T. A general synthesis of 3-amino-2-alkenenitriles by the cross-Thorpe reaction, 3509
- Kobayashi, M.** see Negishi, E. 3823
- Kobayashi, Y.** see Kumadaki, I. 1055
- Koblicová, Z., Tureček, F., Ninova, P., Trojánek, J. and Blaha, K.** Verbascine, a macrocyclic spermine alkaloid of a novel type from *verbascum pseudonobile* Stoj. et Stef (Scrophulariaceae), 4381

- Koch, H., Runsink, J. and Scharf, H.-D. Investigation of chiral induction in photochemical oxetane formation, 3217
- Koch, K., Lin, J.-M. and Fowler, F.W. The intramolecular ene reaction of carbon-nitrogen double bonds, 1581
- Kochetkov, N.K. see Sviridov, A.F. 4355, 4359
- Kochnar, K.S., Cottrell, D.A. and Pinnick, H.W. Facile conversion of thioamides into amides, 1323
- Kochnar, K.S. and Pinnick, H.W. A short synthesis of (+)-mesembrine, 4785
- Kochienski, P. and Yeates, C. A new synthesis of 1,7-dioxaspiro[5.5]undecanes. Application to a rectal gland secretion of the Olive fruit fly (*Dacus oleae*), 3905
- Kodama, M. see Tsunoda, T. 83
- Kodama, Y. see Seto, H. 495
- Kodpinid, M. Sadavongvivad, C., Thebtaranonth, C., Thebtaeanonth, Y. Structures of β -senepoxide, tingtanoixde, and their diene precursors. Constituents of *Uvaria ferruginea*, 2019
- Koga, T. see Ogawa, H. 1045
- Kogay, B.E. and Sokolenko, W.A. Reactions of 1,3-dehydroadamtane (3.3.1-propellane system) with CH- and NH-acids, 613
- Kohlhorn, H. see Werner, G. 5193
- Koike, Y. see Nozoe, S. 1731
1735
- Kojima, Y. see Morita, M. 5631
- Kok, G.B. see Adcock, W. 5901
- Kokko, B.J. and Beak, P. The electrophilic amination of organolithiums with methylolithium complexes of *N*-substituted methoxyamines, 561
- Koll, P. and Oelting, M. 1,3:2,5:4,6-tetrahydro-*Z*-iditol, ein chirales 2,5,8-trioxatricyclo-[5.2.0.0^{3,6}]nonan, 2557
- Koller, W., Linkies, A., Rehling, H. and Reuschling, D. Synthesis and properties of β -sultams, 2131
- Kolodziej, H. The first naturally occurring 4-aryl flavan-3-ol, 1825
- Kolonits, P. see Korbonits, D. 5763
- Kondo, H., Kikuchi, J. and Sunamoto, J. Facile transamination of ordinary amino acids by a pyridoxal model incorporated into a cationic micelle, 2403
- Kondo, K. see Ichikawa, T. 3337
- Kondo, N., Isobe, M., Imai, K., Goto, T., Murasugi, A. and Hayashi, Y. Structure of cadystin, the unit-peptide of cadmium-binding peptides induced in a fission yeast, *Schizosaccharomyces pombe*, 925
- Kondo, T. see Goto, T. 2181, 4863
- Kondo, T., Goto, T., Okabe, T. and Tanaka, N. Synthesis of cagedguomycin (7-deazaguanosine-7-carboxylic acid), 3647
- Kondo, T. see Tamura, H. 5749
- König, W. see Spur, B. 1755, 2135
- König, W.A. see Anklam, E. 5851
- Konno, K., Shirahama, H. and Matsumoto, T. Isolation and structure of acromelic acid A and B. New Kainoids of *clitocybe acromelalga*, 939
- Kono, Y., Danko, S.J., Suzuki, Y., Takeuchi, S. and Daly, J.M. Structure of the host-specific pathotoxins produced by *Phyllosticta maydis*, 3803
- Kopinke, F.D., Ondruschka, B. and Zimmermann, G. Indications of a puzzling mechanism in the pyrolysis of 1,3-butadiene, 869
- Korbonits, D., Simon, K. and Kolonits, P. A novel ring transformation: 1,2,4-oxadiazoles from pyrimidine-*N*-oxides, 5763
- Kormöczy, P. see Ivanics, J. 315
- Kornprobst, J.M. see Ayanoglu, E. 1111
- Kosemura, S. see Shizuri, Y. 2577
- Koshiji, H. see Akita, H. 2009
- Köst, H.-P., Benedikt, E., Cmielek, E. and Schneider, S. Synthesis and characterization of coprobiliverdin III, a new model chromophore, 3975
- Köster, H., Stumpe, A. and Wolter, A. Polymer support oligonucleotide synthesis 13: Rapid and efficient synthesis of oligodeoxyribonucleotides on porous glass support using triester approach, 747
- Köster, H. see Biernat, J. 751
- Köster, H. see Wolter, A. 873
- Köster, H. see Sinha, N.D. 877
- Köster, H. see Sinha, N.D. 5843
- Kotnis, A. see Rigby, J.H. 2939
- Kouno, I., Irie, H., Kawano, N. and Katsume, Y. The revised structure of pseudoanisatin by X-ray crystal structure determination, 771
- Koura, K. see Kamimura, T. 2775
- Kovács, G. see Ivánics, J. 315
- Kovács, G. see Galambos, G. 1281
- Koyama, M. see Seto, H. 495, 1805
- Kozikowski, A.P., Sorgi, K.L., Wang, B.C. and Xu, Z. An improved method for the synthesis of anomerically allylated *C*-glycopyranosides and *C*-glycofuranosides, 1563
- Kozikowski, A.P. and Scripko, J. Efficient coupling reactions of β -amino and β -acetamido radicals with electron deficient alkenes – aza-carbofunctionalization of olefins – a promising new tool for alkaloid synthesis, 2051
- Kozikowski, A.P. and Ghosh, A.K. The isoxazoline route to α -methylene lactones, 2623
- Kozikowski, A.P., Mugrage, B.B., Wang, B.C. and Xu, Z. The INOC approach to the hydroazulenone ring system – a potential entry to the guaianolides and pseudoguaianolides, 3705
- Kozyrod, R.P. and Pinhey, J.T. Synthesis of aryllead(IV) triacetates by tin-lead exchange, 1301
- Kraemer, R. see Navech, J. 5885
- Kraft, M.E. and Holton, R.A. Regiospecific preparation of thermodynamic silyl enol ethers using bromomagnesium dialkylamides, 1345
- Kramer, J. see Rigby, J.H. 2939
- Kraska, B. and Lichtel, R. Distribution of tautomers in acylated ketoses an important factor in ketoside synthesis, 361
- Kraus, G.A. and Gottschalk, P. Conjugate additions of furans to enones mediated by iodotri-methylsilane, 2727
- Kraus, G.A. and Nagy, J.O. The total synthesis of α -allokanic acid, 3427
- Krawczyk, S.H. see Acevedo, O.L. 4789
- Krebs, A. und Berndt, J. Synthese zweier Germirene, 4083
- Krebs, A., Born, W., Kaletta, B., Nickel, W.-U. und Rüger, W. Sterisch gehinderte Alkene – VI. Auf dem Weg zum Tetraltert-Butylethen, 4821
- Krebs, B. see Metz, P. 1959
- Krepški, L.R. see Hassner, A. 1135
- Krepški, L.R., Heilmann, S.M. and Rasmussen, J.K. Addition of Grignard reagents to O-trimethylsilylated cyanohydrins: Synthesis of acyloins, 4075
- Kretzschmar, G. see Barton, D.H.R. 5889

- Krief, A. see De Vos, M.J. 103
 Krief, A. see Schauder, J.R. 1657
 Krief, A. see Di Giambardino, T. 3413
 Kriefer, C., Liebe, J. und Tochtermann, W. Die Kristall- und Molekülstruktur von 6-Paracyclophan-8,9-dicarbon-säuredimethyl-ester, 707
 Krieger, C. see Zippies, M.F. 1925
 Krolikiewicz, K. see Vorbrüggen, H. 889, 5337
 Krolls, U. see Goel, O.P. 163
 Kronis, J.D. see Yates, P. 2419
 Kronis, J.D., Powell, M.F. and Yates, P. The acid-induced decomposition of 7-substituted 3-diazo-2-norbornanones. Kinetic studies, 2423
 Kruck, P. see Gompper, R. 3563
 Kruse, L.I. and Cha, J.K. Conformational preference of aromatic ketones and aldehydes determined by nuclear overhauser effect difference spectroscopy indicates aromatic π -electron density, 2367
 Kubo, I., Kamikawa, T. and Miura, I. Isolation, structure and synthesis of maesanin, a host defense stimulant from an African medicinal plant *Maesa lanceolata*, 3825
 Kugimiya, M. see Higuchi, H. 2593
 Kuiper, D. see Pennings, M.L.M. 825
 Kulik, W., Verkruisse, H.D., de Jong, R.L.P., Hommes, H. and Brandsma, L. Dimetalation of isopropenylacetylene. Application in the synthesis of 3-methylselenophen, 3-methylene-2,3-dihydroselenophen and the tellurium analogues, 2203
 Kumada, M. see Hayashi, T. 807, 2865, 5661
 Kumadaki, I., Nakazawa, M., Kobayashi, Y., Maruyama, T. and Honjo, M. Direct fluorination of 6-O-cyclouracil nucleosides, 1055
 Kumagai, T., Satake, K., Kidoura, K. and Mukai, T. A new reaction of nitrene with 1H-azepine derivatives: A formation of 2,6-diazabicyclo[3.3.0]octadiene and 2,8-diazabicyclo[3.2.1]-octadiene, 2275
 Kumagai, T., Kawamura, Y. and Mukai, T. Photochemical reaction of 3-aryl-2-isoxazolines with methylated benzenes, 2279
 Kumar, S. see Levy, L.A. 1221
 Kumar, S.D. see Chen, S.F. 5461
 Kumar, V. and Sukh Dev Titanium tetrachloride, an efficient and convenient reagent for thio-acetalization^{1,2}, 1289
 Kumaresan, S. see Ramadas, S.R. 5403
 Kump, W. see Wacker, O. 5607
 Kunai, A., Yanagi, Y. and Sasaki, K. A convenient preparation of conjugated nitro olefins by electrochemical method, 4443
 Kunesch, G. An efficient synthesis of some biologically important monoacylated diamines, 5211
 Kunieda, T., Takahashi, T. and Hirobe, M. Highly stereoselective photodimerization of 1,3-dimethylthymine in liquid crystalline media, 5107
 Kunugihara, A. see Matsumura, N. 3239
 Kunzmann, E. see Auchter, G. 557
 Kuprijanova, E.A. see Rosenthal, A. 1691
 Kuraishi, T. see Iwao, M. 2649
 Kurobe, H. see Nemoto, H. 4257
 Kuroda, T. see Takai, K. 5281
 Kurokawa, K. see Ohshiro, Y. 3465
 Kurozumi, S. see Tanaka, T. 4103
 Kurth, M.J. and Decker, O.H.W. Auxiliary-reagent mediated asymmetric induction in the aza-Claisen rearrangement, 4535
 Kurth, M.J. see Hoye, T.R. 4769
 Kusano, G. see Nozoe, S. 1731, 1735
 Kusumi, T. see Ishitsuka, M. 5117
 Kusumoto, S. see Inage, M. 2011
 Kusumoto, S. see Imoto, M. 4017
 Kusumoto, T. see Imamoto, T. 5233
 Kuwajima, I., Sugahara, S. and Enda, J. Isomerization of 1-trimethylsilylallenyl ether to 1-trimethylsilylpropargyl ether. Preparation of 1-methoxy-1-alken-3-yne and 2-methoxy-2,5-dihydrofurans, 1061
 Kuwajima, I. see Nakamura, E. 3341, 3343, 3347
 Kuwajima, I., Ando, R. and Sugawara, T. Regio- and site-selective activation of carbon-carbon double bonds to nucleophilic reagents. Cyclopropanation of vinylselenones with active methylene compounds, 4429
 Kuwajima, I. see Urabe, H. 4241, 5001
 Kuwamura, Y. see Kumagai, T. 2279
 Kuzuya, M., Adachi, M., Noguchi, A. and Okuda, T. Photochemistry of novel azabicyclic compounds; concerning the site- and regioselectivity of di- π -methane transformations of 5,6-benzo-2-azabarrenes, 2271
 Kuzuya, M., Tanaka, M. and Okuda, T. Concerning methoxy substituent effect and topotactic assistance by methylene chain on photocyclization of *n*-methylene dicinnamates, 4237
 Kyba, E.P. see Whitesell, M.A. 1679
 Kyburz, E. see Arnold, W. 343
 Laarhoven, W.H. see Roeterdink, F. 2307
 Laatsch, H. and Thomson, R.H. A revised structure for cyclo-prodigiosin, 2701
 Labadie, J.W. and Stille, J.K. Synthesis of a pyrenophorin precursor, 7-hydroxy-4-oxo-2-octenoic acid by the direct palladium catalyzed coupling of an acrylic tin reagent with an acid chloride, 4283
 L'Abbe, G., Godts, F. and Toppet, S. Ring transformation of a 4-amino-isoxazole into a triazole, 3149
 Labuschagne, A.J.H. and Schneider, D.F. Synthesis of specifically deuterated 1,3-diethoxy-carbonylallylidenetriphenylphosphonium ylide, 743
 Lacombe, S. see Haufe, G. 5877
 Laguzza, B.C. see Corey, E.J. 4913
 Lahti, P.M. Aziridinamine chemistry, I. — Thermal decomposition of *cis* and *trans*-2,3-diphenylaziridinamine, 2339
 Lahti, P.M. Aziridinamine chemistry II. — Reduction of alkenes and alkynes by aziridinamines, 2343
 Lahti, P.M. Erratum, 3538
 Laidoudi, A. see Texier, F. 189
 Laila, A.H. see Isaacs, N.S. 2897
 LaJohn, L.A. see Wolfe, S. 3789, 4071
 LaJoie, G., Lépine, F., Maziak, L. and Belleau, B. Facile regioselective formation of thiopeptide linkages from oligopeptides with new thionation reagents, 3815
 Lallemand, J.-y. see Jalali, M. 4307
 LaMattina, J.L. and Mularski, C.J. The synthetic utility of *p*-nitrophenyl 3-bromo-2,2-diethoxy-pripionate, 2059
 Lambert, J.B., Larson, E.G. and Bosch, R.J. Nonstereospecific, nontriplet cyclopropanations with dibromomethylene, 3799
 Lamm, B., Andersen, L. and Aurell, C.-J. Structure of the 2:1 adduct of dimethyl acetylenedicarboxylate and the pyrrolidine enamine of 3-methylthiochroman-4-one: A novel pentacyclic system, 2413
 Lammertsma, K. see Trunkenburg,

- L.A.M.** 1821
Lancelin, J.-M., Zollo, P.H.A. and Sinaÿ, P. Synthesis and conversions of C-(alkyn-1-yl)- β -D-glucopyranosides, 4833
Landgrebe, J.A. see Huan, Z. 2829
Landmann, B. see Hoffmann, R.W. 3209
Lanneau, G.F. see Corriu, R.J.P. 4323
Lansbury, P.T., Jr. see Corey, E.J. 265
Lanzendörfer, U. see Christl, M. 353
Laporterie, A., Iloughmane, H. and Dubac, J. A convenient synthesis of 1,1,3,4-tetramethylsilole: A stable IVB-metallocle, 3521
Larock, R.C. and Takagi, K. Mercury in organic chemistry. 27.
 π -Allylpalladium synthesis via organopalladium additions to nonconjugated dienes, 3457
Larraza, M.I. see Sánchez, I.H. 551
Larsen, D.S. see Cambie, R.C. 2319
Larson, E.G. see Lambert, J.B. 3799
Lashmet, P.R., Tang, K.-C. and Coward, J.K. The synthesis of an ATP- γ -peptidyl ester as a potential probe of c-AMP-dependent protein kinases, 1121
Laszlo, P. see Cornélis, A. 3103
Laszlo, P. see Grandjean, J. 3319
Laucher, D. see Leyendecker, F. 3513, 3517
Lauher, J. see Srivastava, S. 2431
Laumy, M. see Capdevielle, P. 5611
Launay, J.-C. see Duhamel, L. 4209
Laur, J. see Martinez, J. 5219
Laurent, A. see Alvernhe, G. 1153
Laurent, A. see Bartnik, R. 4197
Laurent, A. see Picq, D. 5619
Laurent, A. see Haufe, G. 5877
Laurent, E., Tardivel, R. et Thiebault, H. Un nouveau mode d'accès aux α -fluorocétones: l'oxydation anodique des acétates d'énon en présence d'ions fluorures, 903
Lautens, M. see Trost, B.M. 4525
Lauvè, D. see Julia, M. 1783
Lawlor, J.M. and McNamee, M.B. A convenient synthesis of 4-substituted paraconic acids, 2211
Lawrence, R.F. see Raucher, S. 2927
Lax, A.R. see Meyer, W.L. 5059
Laycock, B., Kitching, W. and Wickham, G. Allylsilanes from allylchlorides and silylcuprates, 5785
Leardini, R., Tundo, A., Zanardi, G. and Pedulli, G. Synthesis and rearrangement of diaryl-hydroxybenzo[b]thiophens. A new synthesis of 2,3-diaryl-benzo[b]thiophens, 3381
Le Bigot, Y., Delmas, M. et Gaset, A. Réaction de Wittig en milieu hétérogène solide-liquide: Transformation directe des aldéhydes phénoliques naturels en alcènes, 193
Leborgne, A., Moreau, M. and Spassky, N. Determination enantiomeric purity and absolute configuration of chiral β -propiolactones by nuclear magnetic resonance in optically active solvents, 1027
LeBrilla, C.B. and Maier, W.F. Intramolecular hydrogen exchange in 2,3-dimethylbutane catalysed by nickel, 1119
Lechevallier, A. see Beugelmans, R. 1787
Le Clef, B., Vermeylen, L., Viehe, H.G., Van Meerssche, M., Germain, G. et Declercq, J.P. Mesoinionic triazole by reaction of a substituted 4,4-dichloro β -lactam with phenylhydrazine, 1035
Leclercq, D. see Corriu, R.J.P. 4323
Leder, J., Fujioka, H. and Kishi, Y. Synthetic studies on palytoxin. Stereocontrolled practical synthesis of the C.23-C.37 segment, 1463
Lee, C.-S. see Hashimoto, Y. 1523
Lee, G.A. see Markgraf, J.H. 241
Lee, I., Kim, N.I. and Sohn, S.C. Solvolysis of benzoyl cyanides in methanol-acetonitrile and methanol-acetone mixtures, 4723
Lee, J.I. see Kim, S. 3365
Lee, S.D. see Chan, T.H. 1225
Lee, S.D., Brook, M.A. and Chan, T.H. Conversion of primary amides into active acylating agents via acylpyrroles, 1569
Lee, T.-J. and Holtz, W.J. A new application of the Sommelet-Hauser rearrangement, 2071
Lee, T.V. and Okonkwo, J.O. A regiospecific synthesis of γ -keto esters: The alkylation of O-silylated enolates with methyl α -chlôro- α -phenylthioacetate, 323
Lee, W.B. see Giese, B. 881
Lee-Ruff, E., Hopkinson, A.C. and Kazarians-Moghaddam, H. Photochemistry of α , -disubstituted bicyclic cyclobutanones - a potential thermal-photochemical metathesis reaction, 2067
Lee-Ruff, E. see Maleki, M. 4911
Lefour, J.M. see Delbecq, F. 3613
Le Goffic, F. see Vo Quang, Y. 5209
Le Greneur, S. see Barton, D.H.R. 1601
Le Greneur, S. see Giannotti, C. 5071
Lehr, R.E. and Jerina, D.M. Aza-polycyclic aromatic hydrocarbon carbucigenicity: Predictions of reactivity of tetrahydrobenzo ring epoxide derivatives, 27
Lemay, G. see Canonne, P. 1929
Le Noble, W.J. see Gebicka, E. 2427
Le Noble, W.J. see Jenner, G. 2429
Le Noble, W.J. see Srivastava, S. 2431
Leong, W.W.-H. see Soderquist, J.A. 2361
Leonhardt, B.A. see Schwarz, M. 1007
Lépine, F. see Lajoie, G. 3815
Lequan, M., Lequan, R.M., Batail, P., Halet, J.F. et Ouahab, L. Conducteurs organiques: Nouveaux complexes d'ions radicaux entre sels de diphosphonium et le tétracyanoquinodimethane (TCNQ), 3107
Lequan, R.M. see Lequan, M. 3107
Lesma, G. see Danieli, B. 819
L'Esperance, R.P. see Clennan, E.L. 4291
Lester, D. see Chu, D.T.W. 135, 139
Lesur, B.M. see Roush, W.R. 2227, 2231
Lett, R. Rearrangement of penicillin G β -sulfoxide with cleavage of the C₅-S bond, initiated by vinyl chloroformate, 201
Lever, O.W., Jr. see Crouch, R.C. 4801
Levina, E.V. see Kicha, A.A. 3893
Lévy, J. et Sigaut, F. Méthylène-indolines, indolénines et indolénium, XV. Sur la samination d'une indolénine - application en série mésembrane, 4983
Lévy, J. et Sigaut, F. Méthylène-indolines, indolénines et indolénium XVI. Nouvelle synthèse d'hexahydrodibenzofurannes, 4987
Levy, L.A. and Kumar, S. Synthesis of methyl substituted benzanthenes and benzanthracene derivatives, 1221
Ley, S.V. see Booth, P.M. 5143
Leyendecker, J., Niewöhner, U. und Steglich, W. Umwandlung von α -Aminosäuren in α -Diketone über Oxazolin-Zwischenstufen, 2375
Leyendecker, F., Jesser, F. and Laucher, D. Ligand effects in enantioface differentiating 1,4 addition to 1,3 diphenyl-2

- propen-1 one, 3513
- Leyendecker, F.** and **Laucher, D.** Use of (2S,4R)-hydroxyproline derivatives as ligands in chiral copper¹ complexes, 3517
- Li, M.** see **Bonini, C.** 277
- Li, X.** and **Djerassi, C.** Minor and trace sterols in marine invertebrates 40. Structure and synthesis of axinysasterol, 25-methylfucosterol and 24-ethyl-24-methylcholesterol – novel sponge sterols with highly branched side chains, 665
- Li, X.** and **Huisgen, R.** New reactions of thiobenzophenone S-methylide, 4181
- Li, X.** see **Huisgen, R.** 4185
- Libera, H.** see **Döpp, D.** 885
- Lichtel, R.** see **Kraska, B.** 361
- Liebe, J.** see **Krieger, C.** 707
- Liebe, J.**, **Tochtermann, W.** and **Weiss, J.** Reaktionen des 6 paracyclophan-8,9-Dicarbonsaurediethylesters: cis-1,2-Addition von Brom und Osmiumtetroxid an ein Benzolderivat, 2549
- Lieberknecht, A.** see **Schmidt, U.** 3573
- Liefländer, M.** see **Six, L.** 1229
- Liew, W.-F.** see **Schreiber, S.L.** 2363
- Lim, M.-I.** and **Marquez, V.E.** A synthetic approach towards neplanocin A: Preparation of the optically active cyclopentene moiety from D-ribose, 4051
- Lim, M.-I.** and **Marquez, V.E.** Total synthesis of (–)-neplanocin A, 5559
- Lin, J.-M.** see **Koch, K.** 1581
- Lin, L.-J.** see **Billups, W.E.** 1683
- Linderman, R.J.** and **Meyers, A.I.** N-alkyl-β-aminoethylphosphonium salts. Useful reagents for the synthesis of 2° allylamines, 3043
- Lindsay-Smith, J.R.** and **McKeer, L.C.** High site-selectivity in the chlorination of electron-rich aromatic compounds by *N*-chloroammonium salts, 3117
- Linkies, A.** see **Koller, W.** 2131
- Lion, C.** see **Dubois, J.-M.** 4207
- Liotta, D.**, **Saindane, M.** and **Ott, W.** A simple, efficient synthesis of 3-substituted furans, 2473
- Liotta, D.** see **Goldsmith, D.** 5935
- Lipshutz, B.H.** Conjugate addition reactions of α,β-unsaturated esters with higher order cuprates R₂Cu(CN) Li₂, 127
- Lipshutz, B.H.**, **Hungate, R.W.** and **McCarthy, K.E.** Heterocycles in synthesis. Dipeptides via unmasking of 5-acyl- and 5-acyloxymino-oxazoles, 5155
- Little, R.D.**, **Losinski-Dang, L.**, **Venegas, M.G.** and **Merlic, C.** Some unusual reactions of molecular oxygen with bicyclic diazenes which typically serve as precursors to alkylidenecyclopentane-1,3-diyls; peroxide formation, 4499
- Liu, J.-S. Huang, M.-F.**, **Arnold, G.F.**, **Arnold, E.**, **Clardy, J.** and **Ayer, W.A.** Schisanlactone A, a new type of triterpenoid from a *Schisandra sp.*, 2351
- Liu, J.-S. Huang, M.-F.**, **Ayer, W.A.** and **Bigam, G.** Schisanlactone B, a new triterpenoid from a *Schisandra sp.*, 2355
- Liu, M.T.H.** and **Tencer, M.** "Electronic effect on 1,2-hydrogen shift in chlorocarbenes", 5713
- Liu, S.-H.** A simple synthesis of dihydrojasmon, 439
- Lloyd, D.H.** and **Nichols, D.E.** A simple procedure for the preparation of indoles, 4561
- Lobo, A.M.**, **de Abreu, P.M.**, **Probhakar, S.**, **Godinho, L.S.** and **Williams, D.J.** *Pisolithus*, a novel triterpenoid isolated from the fungus *Pisolithus tinctorius*, 2205
- Lociuro, S.**, **Pellacani, L.** and **Tardella, P.A.** A novel synthesis of N-substituted-amino ketones, 593
- Loeffler, R.S.T.** see **Croker, S.J.** 1559
- Loeppky, R.N.**, **Outram, J.R.**, **Tomasik, W.** and **Faulconer, J.M.** Rapid nitrosamine formation from a tertiary amine: The nitrosation of 2-(*N,N*-dimethylamino-methyl) pyrrole, 4271
- Loerzer, T.**, **Gerke, R.** und **Lüttke, W.** Tetrakis(1-methylcyclopropyl)thylen, 5861
- Loewenthal, H.J.E.** see **Kellner, D.** 3397
- Lofgren, C.S.** see **Rocca, J.R.** 1889, 1893
- Löher, H.** see **Oppolzer, W.** 4971
- Lohmann, J.J.** see **Franck-Neumann, M.** 1775
- Lomas, J.S.** and **Dubois, J.-E.** Alcohol thermolysis: Intramolecular competition as a probe for comparing radical strain energies, 1161
- Lomax, T.D.** see **O'Connor, C.J.** 2917
- Long, D.A.** see **McKillip, A.** 1933
- Long, D.J.** see **Repic, O.** 1115
- Long-Mei, Z.** see **Jung, M.E.** 3973, 4533
- Longone, D.T.** see **Glatzhofer, D.T.** 4413
- López-Gonzalez, M.M.C.** see **Amat-Guerri, F.** 3749
- Lorenzo, A.** see **Molina, P.** 5805
- Lorimer, J.P.** see **Mason, T.J.** 4371
- Losinski-Dang, L.** see **Little, R.D.** 4499
- Loy, G.** see **Bonsignore, L.** 5013
- Loya, Y.** see **Carmely, S.** 3673
- Lozach, D.**, **Molle, G.**, **Bauer, P.** et **Dubois, J.E.** Organolithiennes à structure "cage" réactivité vis-à-vis des cétones non enolisables. Coexistence d'un complexe evolutif et d'un complexe inert, 4213
- Lu, M.C.** see **Flavin, M.T.** 2335
- Lu, Y.**, **Shu, A.Y.L.**, **Knierzinger, A.**, **Clezy, P.S.**, **Bunnenberg, E.** and **Djerassi, C.** Novel magnetic circular dichroism spectra of monoacetyl porphyrins. Structure implications, 2433
- Lüderitz, O.** see **Imoto, M.** 4017
- Lumbard, K.W.** see **Neville Jones, D.** 1647
- Lunt, S.R.** see **Daub, G.W.** 4397
- Luo, F.-T.** see **Negishi, E.** 5181
- Lusinchi, X.** see **Barton, D.H.R.** 2995
- Luthe, C.** and **Zamir, L.O.** The synthesis of 3- and 4-deuterated shikimic acid, 4409
- Lutterbeck, M.** see **Maas, M.** 2143
- Lüttke, W.** see **Loerzer, T.** 5861
- Luu, B.** see **Toth, J.O.** 1081
- Luxen, A.** see **Mbuyi, M.** 5873
- Luxon, B.A.** see **Moriarty, R.M.** 1139
- Maas, M.**, **Lutterbeck, M.**, **Hunkler, D.** and **Prinzbach, H.** *Cis-tris-[2.2.2]-σ-homobenzene* – synthesis and thermolysis, 2143
- Macas, T.S.** and **Yates, P.** A general synthesis of isotwist-8-en-3-ones from *o*-(3-butenyl)phenols, 147
- McBride, B.J.** see **Garst, M.E.** 1675
- McBride, L.J.** and **Caruthers, M.H.** An investigation of several deoxy-nucleoside phosphoramidites useful for synthesizing deoxy-oligonucleotides, 245
- McBride, L.J.** and **Caruthers, M.H.** N⁶(*N*-methyl-2-pyrrolidine amidine) deoxyadenosine – a new deoxynucleoside protecting group, 2953
- McCabe, P.H.** see **Jorgensen, F.S.** 319
- McCarthy, K.E.** see **Lipshutz, B.H.** 5155
- McClard, R.W.** A facile route to methylenephosphonate sugars substituted at the anomeric

- carbon, 2631
McClusky, J.V. see Reeves, W.P. 1585
McDonald, H. see Cambie, R.C. 2319
MacDonald, J.G. see Dunkin, I.R. 4373
MacDonald, J.G. see Harpp, D.N. 4927
McDonnell, P.D. see Bradley, J.P. 2851
McElroy, A.B. see Durman, J. 3927
McGarvey, G.J., Hiner, R.N., Matsubara, Y. and Oh, T. Development of chiral β -dicarbonyl equivalents. Enantio-divergent alkylation of aspartic acid, 2733
Machida, H. see Nakayama, J. 3001
Macias, F.A. see Massanet, G.M. 1641
McKean, D.R. see Miller, R.D. 2619
McKeer, L.C. see Lindsay-Smith, J.R. 3117
MacKenzie, K., Miller, A.S., Muir, K.W. and Manojlović-Muir, L. "π-tilting" in bridged polycyclic compounds, 4747
McKinney, M.A. and Ratananukul, P. Regiospecific synthesis of α -(phenylthio) cycloalkenones and of α -phenyl- α -(phenylthio) ketones via $\alpha\alpha$ -addition of phenyl-sulphenyl chloride to α -diazo-ketones, 117
McKillop, A. and Tarbin, J.A. Sodium perborate – a cheap and effective reagent for the oxidation of anilines, and sulphides, 1505
McKillop, A., Madjedabadi, F.A. and Long, D.A. A simple and inexpensive procedure for chloromethylation of certain aromatic compounds, 1933
Mackor, A. see Timmermans, P.J.J.A. 1419
Mackor, A. see Kamphuis, J. 2299
McLaughlin, L.W. see Marugg, J.E. 3989
Maclean, D.B. see Marsden, R. 2063
MacLeod, A. see Bremner, J.A.S. 3783
McManus, S.P., Smith, M.R., Smith, M.B. and Worley, S.D. On the intermediacy of trimethylene-chloronium ions, 557
McMurry, J.E. and Scott, W.J. A method for the regiospecific synthesis of enol triflates by enolate trapping, 979
McMurry, J.E. and Miller, D.D. Synthesis of isocaryophyllene by titanium-induced keto ester cyclization, 1885
McMurry, J.E. and Mohanraj, S. Synthesis of arenes from phenols by coupling of aryl triflates with organocupper reagents, 2723
McMurray, J.E. and Farina, V. Total synthesis of *O*-methylpallidinine, 4653
McNamee, M.B. see Lawlor, J.M. 2211
MacNicol, D.D. see Gilmore, C.J. 3269
McPhail, A.T. see Berger, J.G. 2469
McPhail, A.T., Wu, T.-S., Ohta, T. and Furukawa, H. Structure of (\pm) murrafoline, a novel bis-carbazole alkaloid from *Muraya euchrestifolia*, 5377
MacPherson, D.T. see Hewson, A.T. 647, 5807
McWhorter, W.W., Kang, S.H. and Kishi, Y. Synthetic studies on palytoxin. Stereocontrolled practical synthesis of the C.85–C.98 segment, 2243
Madaule, Y. see Couret, C. 2769
Maddaluno, J. et d'Angelo, J. Alkoxy-3 acroléines: équivalents du dialdéhyde malonique, 895
Maddaluno, J. see d'Angelo, J. 5869
Madjedabadi, F.A. see McKillop, A. 1933
Maekawa, T. see Ishihara, T. 4229
Maeno, S. see Aoyagi, F. 1991
Mafunda, B.G. see Scott, F. 5767
Magdzinski, L. see Molino, B.F. 5819
Magdzinski, L., Cweiber, B. and Fraser-Reid, B. Pyranosidic homologation: Part II: Extending the carbohydrate template via vicinal (secondary) hydroxyls, 5823
Mahaim, C., Schwager, L., Carrupt, P.-A. and Vogel, P. Interactions between homoconjugated diene and epoxide functions. Effect on Diels-Alder regioselectivity, 3603
Maier, W.F. see Lebrilla, C.B. 1119
Maigrot, N. see Hebert, E. 4683
Mais, F.-J. see Martin, H.-D. 5469
Maitra, U. see Breslow, R. 1901
Maity, S.K., Basu, B. and Mukherjee, D. Synthesis of bridged tetra-cyclic systems related to diterpenes through acid-induced intramolecular cyclisation of diazomethyl ketones, 3921
Maity, S.K. and Mukherjee, D. Synthesis of tricyclo[6.2.2.0^{1,6}]dodecane and tricyclo[6.3.1.0^{1,6}]dodecane ring systems involving intramolecular cyclisation of diazomethyl ketones, 5919
Majetich, G., Casares, A.M., Chapman, D. and Behnke, M. Chemoselectivity in the conjugate addition of allylsilane to Michael acceptors, 1909
Majetich, G., Desmond, R. and Casares, A.M. Allylsilane initiated carbocyclizations, 1913
Majoral, J.-P. see Meriem, A. 1975
Majoral, J.-P. see Karaghiosoff, K. 2137
Majoral, J.-P. see Veith, M. 4219
Majoral, J.-P. see Navech, J. 5885
Mak, C.-P., Mayerl, C. and Fliri, H. Synthesis of carbapenum-3-phosphonic acid derivatives, 347
Maki, Y., Kameyama, K., Sako, M. and Hirota, K. Facile homolytic substitution of *N*(6)-benzoyl adenosines, 799
Makin, M.I.H. see Crank, G. 3159
Makino, H. see Utaka, M. 2567
Makosza, M., Goliński, J. and Rykowski, A. Vicarious substitution of hydrogen in aromatic heterocycles with carbanions of chloromethyl sulfonyl compounds, 3277
Makosza, M. see Goliński, J. 3279
Makrandi, J.K. see Saxena, S. 3401
Malacria, M. see Bluthe, N. 1157
Maleki, M., Hopkinson, A.C. and Lee-Ruff, E. α -Ketocarbonium ions – evidence for a novel oxo-transfer, 4911
Małkiewicz, A. and Sochacka, E. The protected derivatives of 5-methylaminomethyl-2-thiouridine and 5-carbomethoxy-methyl-2-thiouridine as components for the oligonucleotide synthesis, 5387
Małkiewicz, A. and Sochacka, E. The chemical synthesis of anticodons tRNA₁ Lys from *E. Coli* B and tRNA₃ Lys from rabbit liver, 5391
Małkiewicz, A., Sochacka, E., Ahmed., A.F.S. and Yassin, S. The modified nucleosides from the "wobble position" of tRNAs. The synthesis of 5-carboxymethylaminomethyluridine and 5-carboxymethylaminomethyl-2-thiouridine, 5395
Mallet, J.M. see Badet, B. 4331
Manabe, K. see Tanaka, T. 4103
Manabe, O. see Shinkai, S. 1539, 3501
Mancilla, T. see Santesteban, F. 759
Mancini, M.L. see Honek, J.F. 257
Mancini, M.L. and Honek, J.F. The *cis* reduction of 4-(trimethylsilyl)-3-butyn-2-ol with lithium aluminium hydride, 4295
Mancini, V. see Caia, V. 3903

- Mandai, T., Osaka, K., Wada, T., Kawada, M. and Otera, J. Synthesis of functionalized isoprenes involving a terminal alkoxy group and their highly regioselective Diels-Alder reaction, 1171
- Mandai, T., Hara, K., Kawada, M. and Nokami, J. A new total synthesis of DL-sirenin, 1517
- Mandai, T., Hara, K., Nakajima, T., Kawada, M. and Otera, J. Synthetic application of phenylthio- and phenylsulfonylmethyl ethers to aldehydes, methylals, carboxylic acids and enol or dienol ethers, 4993
- Mandard, X. see Bloch, R. 4691
- Mander, L.N. and Sethi, S.P. Regioselective synthesis of β -ketoesters from lithium enolates and methyl cyanoformate, 5425
- Mangeney, P., Alexakis, A. and Normant, J.F. Synthèse asymétrique d'aldéhydes à partir d'oxazolidines chirales α,β -insaturées et d'organocuprates, 373
- Mangiarcina, P. see Sakseña, A.K. 273
- Mangini, A. see Wolfe, S. 3789
- Manhas, M.S., Khajavi, M.S., Bari, S.S. and Bose, A.K. Synthesis of α -halo and α -deutero- β -lactams, 2323
- Manitto, P. see Monti, D. 417
- Mann, S. see Bushby, R.J. 4743
- Manna, S., Falck, J.R., Chacos, N. and Capdevila, J. Synthesis of arachidonic acid metabolites produced by purified kidney cortex microsomal cytochrome P-450, 33
- Manna, S. see Mioskowski, C. 5521
- Manna, S. see Falck, J.R. 5715, 5719
- Manoharan, M. and Eliel, E.L. The Gauche interaction in *trans*-1,2-dimethylcyclohexane, 453
- Manoharan, M., Eliel, E.L., Kenan, W.R., Jr. and Carroll, F.J. Large temperature and solvent effects in the conformational equilibrium of phencyclidine[1-phenyl-1-(N-piperidyl)cyclohexane], 1855
- Manojlović-Muir, Lj. see MacKenzie, K. 4747
- Manro, A. see Ackroyd, J. 5139
- Mansilla, H. see González, A.G. 969
- Mantlo, N.B. see Comins, D.L. 3683
- Manuel, G. see Veith, M. 4219
- Marais, D. see Vo Quang, Y. 5209
- Maranduba, A. see Alais, J. 2383
- Marchand-Brynaert, J. see Cossement, M. 2563
- Marchese, G. see Fiandanese, V. 3677
- Marcuccio, S.M. and Elix, J.A. A structural revision of picro-rocellin, 1445
- Margaretha, P. see Anklam, E. 5851
- Mariano, P.S. see Chen, Y. 1021
- Mariano, P.S. see Brumfield, M.A. 5567
- Maring, C. see Bednarski, M. 3451
- Marino, J.P. and Jaén, J.C. *Syn*-1,4-addition of carboxylate salts to cyclic allylic epoxides mediated by cuprous chloride, 441
- Marinovic, N.N. and Ramanathan, H. The synthesis of fused and bridged ring systems by free radical carbocyclization. A general route to masked 1,4-diketones, 1871
- Mariotte, A.-M. see Kaouadji, M. 4675
- Markgraf, J.H., Greeno, E.W., Miller, M.D., Zaks, W.J. and Lee, G.A. The Diels-Alder reaction of methyl propiolate with 1-vinylcycloalkenes, 241
- Märkl, G. und Horn, M. Stabile 1,2-Silaoxetane durch Umsetzung von 1,1-Bis(trimethylsilyl)-2(*R*)-2-trimethylsiloxy-1-silaethen mit Cyclopentadienonen und α -Pyronen, 1477
- Märkl, G., Alig, B. und Eckl, E. 1,8-bis-phosphino-1,3,5,7-octatetraene durch Umsetzung von Cyclooctatetraen-dilithium mit *R*,*P*-Cl, 1955
- Märkl, G. und Burger, W. 3-Phenyl-3-benzphosphhepin, 2545
- Märkl, G. und Hock, K. Halogensubstituierte λ^5 - und λ^3 -Phosphorine, 2645
- Märkl, G. und Alig, B. 9-Phosphonia-barbaralane durch Alkylierung von 9-Phospha-bicyclo[6.1.0]nona-2,4,6-trienen, 3981
- Märkl, G. Bergbauer, A. und Rampal, J.B. 2-Aryl- λ^3 -arsenine, 2,6-Diaryl- λ^3 -arsenine, 2-Aryl-4-*R*- λ^3 -arsenine und 2,4,6-Triaryl- λ^3 -arsenine durch 4-Hydroxy-1,4-dihydro-arsenin Arsenin-Umlagerung, 4079
- Märkl, G. und Hock, K. λ^5 -Phosphorinylcarbonester- λ^5 -phosphorinylketone- λ^3 -phosphorinylketone, 5051
- Märkl, G. und Hock, K. Zur nucleophilen Substitution von 3-Halogen- λ^3 -Phosphorinen mit Alkalimetallamiden, 5055
- Märkl, G. und Merkl, B. Optisch aktive (*E*)- β (Amino)vinyl-diphenylphosphonoxide und (*E*)- β (Amino)vinyl-diphenylphosphane, 5865
- Markley, J.L. see Ulrich, E.L. 473
- Marquez, V.E. see Lim, M.-I. 4051, 5559
- Marre, M.-R. see Martin, G.J. 4989
- Marsch, M. see Boche, G. 3225
- Marsden, R. and Maclean, D.B. A new synthesis of the protoberberine system, 2063
- Marshall, L. and Hershline, R. Regarding asymmetric induction on the Schiff bases: A correction, 2999
- Marsili, A. see Napolitano, E. 1319
- Marsura, A. see Kaouadji, M. 4677
- Martigneau, M., Strehler, C. et Streith, J. Photoconversion de [1-*H*]diazépines-1,2 substituées, 3327
- Martin, A.S. see Fraga, B.M. 1945
- Martin, A.S., Rovirosa, J., Munoz, O., Chen, M.H.M., Guneratne, R.D. and Clardy, J. The isolation and structure determination of chileneone *A*, *A* putative dimer of 2-methyl-3(2*H*) furanone from the marine alga *Laurencia chilensis*, 4063
- Martin, G.J., Sanchez, M. and Marre, M.-R. Study of the P-N bond in phosphorimidates by 15 N and 31 P spectroscopy, 4989
- Martin, G.S. see Dunkin, I.R. 4373
- Martin, H.-D., Iden, R., Mais, F.-J., Kleefeld, G., Steigel, A., Fuhr, B., Rümmele, O., Oftring, A. und Schwichtenberg, E. Dihydro-diazatropone aus Cyclobutenonen und Diazoalkanen, 5469
- Martin, J.D. see González, A.G. 847, 1075, 4143
- Martin, R.T. see Hadley, M.S. 91
- Martin, S., Sauvêtre, R. et Normant, J.-F. Synthèse de difluoro-oléfines trans, 5615
- Martin, S.F. and Dupre, B. Regiochemistry of the dipolar cycloadditions of nitrile oxides to unactivated olefins. Application to the stereoselective elaboration of β -hydroxycarbonyl compounds, 1337
- Martina, D. see Franck-Neumann, M. 1611, 1615
- Martinez, J., Laur, J. and Castro, B. Carboxamidomethyl esters (CAM esters) as carboxyl protecting groups, 5219
- Martínez, M.A. see González, A.G. 3033
- Martínez-Ripoll, M. see Boente, J.M. 2029
- Martínez-Utrilla, R. see Amat-Guerri, F. 3749
- Marugg, J.E., McLaughlin, L.W.,

- Piel, N., Tromp, M., van der Marel, G.A. and van Boom, J.H. Polymer supported DNA synthesis using hydroxybenzotriazole activated phosphotriester intermediates, 3989
- Marumo, S. see Katayama, M. 1703
- Maruoka, K. see Sakane, S. 943
- Maruoka, K. see Ishida, Y. 3255
- Maruoka, K. see Mori, A. 4581
- Maruoka, K. see Sasatani, S. 4711
- Maruta, E. see Yamanaka, E. 3861
- Maruyama, T. see Kumadaki, I. 1055
- Maruyama, T., Taira, Z., Horikawa, M., Sato, Y. and Honjo, M. Synthesis of uracil-5- and adenine-8-phosphonic acids, 2571
- Maryanoff, B.E., Reitz, A.B. and Duhl-Emswiler, B.A. Stereochemical observations on the Wittig reaction of oxido phosphonium ylides with aldehydes, 2477
- Mashino, T., Nagano, T. and Hirobe, M. Reduction of imines by cluster $[Fe_4S_4(SR)_4]^{3-}$, 5113
- Mason, R. see Buss, A.D. 5293
- Mason, T.J., Lorimer, J.P. and Mistry, B.P. The effect of temperature on the ultrasonically enhanced reaction rates of 2-chloro-2-methylpropane in aqueous ethanol mixtures, 4371
- Masroua, A. see Alvernhe, G. 1153
- Massanet, G.M., Collado, I.G., Macias, F.A., Bohmann, F. and Jakupovic, J. Structural determination of clementein, a new guaianolide isolated from *Centaurea Clementei*, 1641
- Massardo, P. see Cassani, G. 2513
- Masuda, K. see Shiojima, K. 5733
- Masuda, R. see Kamitori, Y. 2575
- Masuda, S. see Inamoto, N. 5265
- Masunaga, T. see Hirao, T. 399
- Matlin, A.R., Wolff, S. and Agosta, W.C. Wavelength dependency in the photochemistry of 5-methyl-1,5-hexadien-3-one, 2961
- Matsubara, S. see Kanemoto, S. 2185
- Matsubara, S., Takai, K. and Nozaki, H. Isomerization of primary allylic alcohols to tertiary ones by means of $Me_3SiOOSiMe_3VO(acac)_2$, catalyst, 3741
- Matsubara, Y. see McGarvey, G.J. 2733
- Matsuda, F., Tomiyoshi, N., Yanagiya, M. and Matsumoto, T. A new stereocontrolled synthesis of (+)-pederine. Unusual conformation around C-10-C-11 bond in pederine derivatives, 1277
- Matsuda, H., Ninagawa, A., Baba, A. and Sato, K. A facile synthesis of a new type of oxadiazabicyclo [3.3.1] nonanes, 789
- Matsuda, I., Sato, S. and Izumi, Y. A regiospecific synthesis of trimethylsilyl enol ethers using rhodium catalyzed isomerization of α -trimethylsilylallyl alcohols, 2787
- Matsuda, I. see Sato, S. 3855
- Matsuda, Y. see Hayashi, T. 2665
- Matsuki, K. see Nakagawa, M. 2171
- Matsumoto, H. see Aoyagi, F. 1991
- Matsumoto, M. see Ito, S. 5249
- Matsumoto, T. see Konno, K. 939
- Matsumoto, T. see Matsuda, F. 1277
- Matsumoto, T. see Aoyagi, F. 1991
- Matsumoto, T. see Shirahama, H. 2869
- Matsumoto, T. see Ohtsuka, T. 3851
- Matsumoto, T. see Enoki, N. 4341
- Matsumoto, T. see Okuno, T. 5653
- Matsumura, N., Kunugihara, A. and Yoneda, S. 1,4-Dianion of aceto-phenone *N*-ethoxycarbonylhydrazone as a synthetic intermediate, 3239
- Matsumura, Y. see Shono, T. 1259, 4577
- Matsunaga, H., Sakamaki, T., Nagaoka, H. and Yamada, Y. Enantioselective synthesis of (*R*)- and (*S*)-4-[(methoxycarbonyl)-methyl]-2-azetidinones from *D*-glyceraldehyde acetonide, 3009
- Matsunaga, S. see Fusetani, N. 2771
- Matsuno, T. and Sakaguchi, S. A novel marine carotenoid, mactraxanthin from the Japanese edible surf clam, 911
- Matsushita, H. see Negishi, E. 3823
- Matsushita, K. see Niwa, H. 4117, 5371
- Matsuura, T. see Nishinaga, A. 213
- Matsuura, T. see Saito, I. 1737, 2195, 4439
- Matzuk, A. see Mrozik, H. 5333
- Mayer, H. und Sauer, J. Photodimerisation von Acenaphthylen-Derivaten in Lösung und Micellen, 4091
- Mayer, H. und Sauer, J. Konstitution und Konfiguration der Photodimeren 1-substituierter Acenaphthylen, 4095
- Mayerl, C. see Mak, C.-P. 347
- Mayr, H. and Bäuml, E. Concerted $4 + 2$ and stepwise $2 + 2$ cyclo-additions of the triphenylallenyl cation with cyclopentadiene, 357
- Mayr, H. and Pock, R. Relative reactivities of alkenes toward the diphenylmethyl cation, 2155
- Mazaleyrat, J.P. Méthode simple de synthèse d'agents de transfert chiraux par action d'un agent alkylant à squelette binaphthyle-1,1', 1243
- Maziak, L. see Lajoie, G. 3815
- Mazzocchi, P.H., Klingler, L., Edwards, M., Wilson, P. and Shook, D. Intra- and intermolecular Paterno-buchi reactions on phthalimides. Isolation of the oxetane, 143
- Mazzocchi, P.H. and Khachik, F. Directive effects of substituents on the electron transfer photoreduction of *N*-methylphthalimide by 2,3-dimethyl-2-butene, 1879
- Mazzola, E.P. see Bloem, R.J. 249
- Mbafor, J.T. see Fomum, Z.T. 4127
- Mbuyi, M., Evers, M., Tihange, G., Luxen, A. and Christiaens, L. The 1,3-benzotellurazole: A new heterocyclic system, 5873
- Meanwell, N.A. see Brown, P.J. 405
- Medici, A., Fantin, G., Fogagnolo, M. and Dondoni, A. Reactions of 2-trimethylsilylthiazole with acyl chlorides and aldehydes synthesis of new thiazol-2-yl derivatives, 2901
- Medina, D.H.G., Grierson, D.S. and Husson, H.-P. 2-Cyano Δ^3 piperideines-*X*: Biomimetic synthesis of the ladybug alkaloids of the adaline series, 2099
- Medina, M.C. see Francisco, C.G. 4621
- Mehendale, A.R. see Rao, A.V.R. 1093
- Mehri, H.M. see Baassou, S. 761
- Mehrotra, M.M. see Corey, E.J. 4917, 4921
- Mehta, G. and Rao, K.S. A general synthetic approach to *cis, syn*, *cis*-triquinanes via reductive carbon–carbon bond cleavage in polycyclic frames: Strategy for bis-cyclopentane annulation of 1,3-cyclopentadiene, 809
- Meier, M. and Rüchardt, C. A free radical chain mechanism for the isonitrile – nitrile rearrangement in solution and its inhibition, 4671
- Meinwald, J. see Jacobs, R. 2441
- Meixner, J. see Giese, B. 703
- Melián, D. see Francisco, C.G. 3907
- Mellerio, G. see De Bernardi, M. 1635
- Mellor, J.M. see Dordor, I.M. 1437
- Meltz, C.N. and Volkmann, R.A. 1. Boron trifluoride activated 3-thiazolines. An efficient pre-

- paration of functionalized thiazolidines, 4503
- Meltz, C.N. see Volkmann, R.A. 4507
- Meltz, C.N. see Volkmann, R.A. 2. Boron trifluoride activated 3-thiazolines. A versatile synthesis of thiophenes, 4507
- Menachery, M.D., Carroll, P. and Cava, M.P. Structure of the 2:1 adduct of dimethyl acetylenedicarboxylate and dehydro-nuciferine: A novel tandem Michael-1,3-dipolar addition reaction, 167
- Mencel, J.J. see Ziegler, F.E. 1859
- Mendenhall, G.D. The Lewis acid catalyzed reaction of *trans*-hyponitrate ion with alkyl halides, 451
- Meou, A. see Tubul, A. 4199
- Merényi, R., De Mesmaeker, A. and Viehe, H.G. Kinetics of the *cis-trans* isomerization of cyclopropanes: Comparison between captodative and *di*-cavto radical stabilisation, 2765
- Meriem, A., Majoral, J.-P., Revel, M. and Navéch, J. Photochemical reactions of phosphaalkenes, 1975
- Meriem, A. see Karaghiosoff, K. 2137
- Merkl, B. see Märkl, G. 5865
- Merlic, C. see Little, R.D. 4499
- Meth-Cohn, O. and Taijaard, H.C. Pyridine annelation of *o*-methyl arylcarboxylic acids with vilsmeier reagents, 4607
- Métra, P.L. and Sutherland, M.D. Further skeletal variety in the toxic furanosesquiterpene ketones in the *Myoporum* genus, 1749
- Metteucci, M.D. see Froehler, B.C. 3171
- Metz, P., Schäfer, H.-J., Henkel, G. and Krebs, B. An intermediate for the total synthesis of guaianolides; a correction, 1959
- Metzger, K. see Häbich, D. 2559
- Metzger, P. et Casadevall, E. Structure de trois nouveaux "botryococcenes" synthétisés par une souche de *Botryococcus braunii* cultivée in laboratoire, 4013
- Metzner, P. and Rakotonirina, R. Regiochemistry of the thienolates reaction with unsaturated ketones: *C*-versus *S*-1,4-addition of a disubstituted dithioester thienolate, 4203
- Metzner, P. see Beslin, P. 3617
- Meunier, A. see Oppolzer, W. 4971
- Meunier, B. see Meunier, G. 365
- Meunier, B. see De Carvalho, M.-E. 3621
- Meunier, G., Meunier, B., Auclair, C., Bernadou, J. and Paoletti, C. Unexpected regiospecific alkylation of the antitumor agent *N*²-methyl-9-hydroxyellipticinium acetate with *N*, *O* or *S* donors, 365
- Meyer, J.M. see Wenderbaum, S. 4877
- Meyer, W.L. On the mass spectrometric structure determination of the cyclic tetrapeptide tentoxin, 2163
- Meyer, W.L., Lax, A.R., Templeton, G.E. and Brannon, M.J. The structure of gloeosporone, a novel germination self-inhibitor from conidia of *Colletotrichum gloeosporioides*, 5059
- Meyer-Dayan, M. see Deschamps-Vallet, C. 3993
- Meyers, A.I. see Linderman, R.J. 3043
- Meyers, A.I., White, S.K. and Fuentes, L.M. Determination of enantiomeric composition of chiral 2-substituted-1,2-glycols via ¹³C-NMR and HPLC, 3551
- Meyers, A.I. see Smith, J.K. 3559
- Meyers, A.I. and Pansegrouw, P.D. The synthesis of 1,2,3-trisubstituted benzenes. Further comments on benzenes derived from aryl oxazolines, 4935
- Michael, J.P. see Howard, A.S. 829
- Micha-Screttas, M. see Screttas, C.G. 3287
- Michel, P. see Büchi, G. 2531
- Miginiac, Ph. see Barbot, A. 5089
- Mijnheer, R. see Van Royen, L.A. 3145
- Mikami, K., Fujimoto, K. and Nakai, T. Enhancement of erythro-selectivity in the [2,3]-Wittig rearrangement via Meyers' azanolates. A facile entry to erythro- α -hydroxy- β -methyl carboxylic acid derivatives, 513
- Mikami, K., Kishi, N. and Nakai, T. Intramolecular acylation of vinyl silanes. A novel, general approach for the synthesis of four- to six-membered carbocyclic systems and its regiochemical features, 795
- Mikawa, H. see Ohnishi, S. 2401
- Milette, S. see Zamboni, R. 4899
- Milkova, T. see Welzel, P. 3199
- Miller, A.S. see MacKenzie, K. 4747
- Miller, D.D., Moorthy, K.B. and Hamada, A. Cupric bromide utilization in the synthesis of prostanoid intermediates, 555
- Miller, D.D. see McMurry, J.E. 1885
- Miller, J.A. see Negishi, E. 5181
- Miller, R.B. and Al-Hassan, M.I. The tetrahydropyranyl ether of (*E*)-3-bromo-3-trimethylsilyl-2-propen-1-ol, a single synthon for the (*E*)- β -formylvinyl anion and cation, 2055
- Miller, R.D. and McKean, D.R. Synthetic transformations using trimethylsilyl iodide: The generation of vinyl sulfides from sulfoxides, 2619
- Miller, M.D. see Markgraf, J.H. 241
- Mills, L.S. and North, P.C. A short synthesis of a key leukotriene *B*₄ synthon, 409
- Minami, I. see Tsuji, J. 1793, 4713, 5635, 5639
- Minami, I. see Shimizu, I. 1797
- Minami, T., Yamanouchi, T. Takenaka, S. and Hirao, I. Synthesis of butadienylphosphonates containing electronegative substituents and their synthetic applications to functionalized cyclopentenylphosphonates, 767
- Mincione, E. see Chandler, M. 5781
- Minisci, F. see Castaldi, G. 2487
- Minowa, N., Fukatu, S., Niida, T., Takada, M. and Sato, K. A practical synthesis of (\pm)-phosphinothricine, 2391
- Miocque, M. see Rougeot, E. 2379
- Mioskowski, C. see Ousset, J.B. 4419
- Mioskowski, C., Manna, S. and Falck, J.R. 1,5-addition of dialkylcuprate reagents to alkylcyclopropyl ketones, 5521
- Mishima, M. see Fujio, M. 2177
- Mistry, B.P. see Mason, T.J. 4371
- Misumi, S. see Higuchi, H. 2593
- Misumi, S. see Otsubo, T. 4851
- Misumi, S. see Doyama, K. 5253
- Mitchell, J.C. see Porter, N.A. 543
- Mitscher, L.A., Wu, T.-S. and Khanna, I. A useful extension of the Marschalk reaction directed toward synthesis of 11-deoxydoxorubicin antitumor antibiotics, 4809
- Mitsu, H. see Murahashi, S. 1049
- Mitsunobu, O. see Ogihara, T. 3505
- Miura, I. see Takahashi, T. 3485, 3489
- Miura, I. see Kubo, I. 3825
- Miura, S. see Tomioka, H. 3353
- Miwa, K. see Morita, M. 5631
- Miyahara, Y., Inazu, T. and Yoshino, T. Synthesis of [1.1.1.1]paracyclophane, 5277
- Miyake, H. see Ono, N. 3477
- Miyamoto, I. see Ogawa, H. 1045
- Miyashi, T. see Roth, H.D. 5815

- Miyashita, A., Watanabe, Y. and Takaya, H. Isolation and characterization of 2-[bis(pyridine)dichloroplatinata]-1-cyanobicyclo[1.1.1]pentane derived from 1-cyanobicyclo[1.1.0]butane and Pt(II) complexes, 2595
- Miyaura, N., Suginome, H. and Suzuki, A. New stereospecific syntheses of pheromone bombykol and its three geometrical isomers, 1527
- Miyazaki, T. see Sasatani, S. 4711
- Miyazawa, T. see Nakamura, H. 4105
- Mizsak, S.A. see Gammill, R.P. 3435
- Mizuno, K., Kagano, H. and Otsuji, Y. Regio- and stereoselective intramolecular photocycloaddition: Synthesis of macrocyclic 2,ω-dioxabicyclo[n.2.0]ring system, 3849
- Mizuno, M. see Suzuki, S. 5103
- Mladenova, M. see Toullée, J. 589
- Mochizuki, T. see Kametani, T. 221, 1511
- Mockel, A. see Saimoto, H. 2251
- Modaressi, S. see Fitjer, L. 5495
- Modena, G. see De Lucchi, O. 1653
- Mohan, B. see Vedachalam, M. 3531
- Mohanraj, S. see McMurry, J.E. 2723
- Moise, C. see Dormond, A. 3087
- Molander, G.A., Rahn, B.J., Shubert, D.C. and Bonde, S.E. Iron catalyzed cross-coupling reactions. Synthesis of arylethenes, 5449
- Molina, P., Alajarín, M., Arques, A., Benzal, R. and Hernandez, H. Fused mesoionic heterocycles: Synthesis of 1,3,4-triazolo(3,2- α)pyridine derivatives, 3523
- Molina, P. and Lorenzo, A. Preparation and thermal behaviour of 1-substituted 2-dicyanomethylene-1,2-dihydropyridines: Synthesis of 2-pyridyl malononitriles, 5805
- Molino, B.F., Magzinski, L. and Fraser-Reid, B. Pyranosidic homologation: Part I: Extending the carbohydrate temperature via C6 and C4, 5819
- Molle, G. see Lozach, D. 4213
- Momose, D., Iguchi, K., Sugiyama, T. and Yamada, Y. Reductive coupling of allylic halides by chlorotris(triphenylphosphine) cobalt(I), 921
- Momose, D. and Yamada, Y. Reaction of bromohydrins with chlorotris(triphenylphosphine) cobalt(I), 2669
- Monego, T. see Farmum, D.G. 1361
- Mongelli, N., Andreoni, A., Zuliani, L. and Gandolfi, C.A. Perhydro-pentalenone equivalent from Corey's lactone, 3527
- Monnier, E., Klaebe, A. and Perie, J.J. Hydrolyse basique et décarboxylation d'esters allophaniques en milieu mixte acétonitrile/eau: Catalyse bifonctionnelle par une entité formée entre base et solvant, 3067
- Montero, J.-L., DeWynter, G., Agoh, B., Delaunay, B. and Imbach, J.L. Selective synthesis of sulfonylureas and carboxysulfamides. A novel route to oxazolidinones, 3091
- Montgomery, A.M. see Spessard, G.O. 655
- Montgomery, D.S. see Payzant, J.D. 651
- Montgomery, S.H. see Heathcock, C.H. 4637
- Monti, D., Gramatica, P., Speranza, G. and Manitto, P. Reaction of nitroolefins with Raney nickel and sodium hypophosphite. A mild method for converting nitroolefins into ketones (or aldehydes), 417
- Moore, I. see Becker, D. 5505
- Moore, J.L. see Williams, D.R. 339
- Moore, K.W. see Cooke, M.D. 3373
- Moore, R.E. see Kirkup, M.P. 2087
- Moorthy, K.B. see Miller, D.D. 555
- Morduchowitz, A. see Pasternak, M. 3439, 4275
- Moreau, M. see Leborgne, A. 1027
- Morellet, G. see Gesson, J.-P. 3095
- Morellet, G. see Jacquesy, J.-C. 3099
- Moretti, R. see Oppolzer, W. 4971
- Morgan, S.E. see Baker, S.R. 4469
- Mori, A., Fujiwara, J., Maruoka, K. and Yamamoto, H. Asymmetric reduction of ketone. Reductive cleavage of chiral acetals using organoaluminum reagents, 4581
- Mori, F. see Suzuki, S. 5103
- Mori, K. and Fujioka, T. Synthesis of (\pm)-ascofuranone, an antibiotic with hypolipidemic and antitumor protective properties, 1547
- Mori, T. see Fujisawa, T. 1543
- Mori, Y. see Osuka, A. 2599
- Moriarty, R.M., John, L.S. and Luxon, B.A. Cluster carbodication. The stability of a *bis*-pyramidal D_{4h} structure for the fulvalene dication* 1139
- Moriwaka, K. see Takano, S. 401
- Morimoto, C. see Mukai, K. 5099
- Morin, C. Protection de la liaison glycosidique en série desoxy-2' adenosine, 53
- Morishima, T. see Fujise, Y. 4261
- Morita, M., Kojima, Y., Kato, N., Miwa, K., Tanaka, I., Yamane, T. and Ashida, T. Absolute stereochemistries and conformations of clerodin and caryoptin. Why conflicting results in absolute stereochemistry based on CD and ORD spectra? 5631
- Morita, N. see Fujimori, K. 781
- Morizawa, Y. see Oda, H. 2877
- Morton, H.E. see Guindon, Y. 2969, 3969
- Morton, J.A. see Garigipati, R.S. 987
- Moskowitz, H. see Rouget, E. 2379
- Moss, R.A., Perez, L.A., Turro, N.J., Gould, I.R. and Hacker, N.P. Hammett analysis of absolute carbene addition rate constants, 685
- Moss, R.A. and Chiang, Y.-C.P. A critical concentration for micellar diastereoselectivity, 2615
- Moss, R.A. and Perez, L.A. The philicity of phenoxychlorocarbene toward styrenes, 2719
- Moss, R.A., Perez, L.A., Turro, N.J., Gould, I.R. and Hacker, N.P. Erratum, 3418
- Moss, R.A. and Hui, Y. The screening of endovesicular reactions by cholesterol, 3961
- Moss, R.A. see Cox, D.F. 5313
- Motherwell, W.B. see Barton, D.H.R. 1601, 1979, 4979, 5227
- Motoi, M. see Suda, H. 1513
- Motoki, S. see Saito, T. 4435
- Moulines, F. see Duboudin, F. 4335
- Mourino, A. see Sardina, F.H. 4477
- Mrozik, H., Chabala, J.C., Eskola, P., Matzuk, A., Waksman, F., Woods, M. and Fisher, M.H. Synthesis of milbemycins from avermectins, 5333
- Muchowski, J.M. and Solas, D.R. β -Substituted pyrroles via electrophilic substitution of *N*-triisopropylsilylpyrrole, 3455
- Mueller, P.H., Rondan, N.G., Houk, K.N., Gano, J.E. and Platz, M.S. The triplet ground state of di-*tert*-butylcarbene, 485
- Mugrage, B.B. see Kozikowski, A.P. 3705
- Mühlstädt, M., Hollmann, K. und Widera, R. Die Reaktion von Hetero-1,5-dienen mit Schwefeldichlorid – eine Synthese von 2,3-Dihydro-1,4-benzothiazinen, 3203
- Mühlstädt, M., Olk, B. und Widera, R. Cyclofunktionalisierung von *N*-Cyclohexenyl-bzw. *N*-

- Cinnamylurethanen zu
Oxazoliden-2-onen bzw. 1,3-
Oxazin-2-Onderivaten, 3979
- Muir, K.M. see MacKenzie, K. 4747
- Mukai, C. see Hanaoka, M. 3845
- Mukai, K., Morimoto, C. and Ishizu,
K. ESR studies of vitamin *K*,
chromanoxyl and chromenoxyxl
radicals, 5099
- Mukai, T. see Kumagai, T. 2275,
2279
- Mukai, T. see Roth, H.D. 5815
- Mukherjee, D. see Maity, S.K. 5919,
5921
- Mukhopadhyay, R. see Pakrashi, S.C.
291
- Mularski, C.J. see Lamattina, J.L.
2059
- Mulhauser, M. see Julia, M. 1783
- Müller, B.W. see Wacker, O. 5607
- Müller, K.M. see Askani, R. 5513
- Müller, P. and Bobillier, C. Rh-
catalyzed oxidation of antra-
cenes to anthraquinones using
t-butylhydroperoxide, 5499
- Mullican, M.D. see Boger, D.L. 4939
- Mulzer, J. and Angermann, A. On
the steric course of the addition
of some organometallic reagents
to (*R*)-2,3-isopropylidene
glyceraldehyde. Synthesis of
optically active α -benzyloxy
aldehydes, alcohols, carboxylic
acids and 1,2-diols, 2843
- Munoz, O. see Martin, A.S. 4063
- Murahashi, S., Mitsui, H., Watanabe,
T. and Zenki, S. The reaction of
N-mono and *N,N*-disubstituted
hydroxylamines with palladium
catalyst, 1049
- Murai, S. see Chatani, N. 5649
- Murakami, Y., Yokoyama, Y. and
Okuyama, N. The Vilsmeier-
Haack reaction of *N*-alkyl-1,2,3,4-
tetrahydrocarbazoles and the
synthetic application to olivacine
and ellipticine, 2189
- Murakami, Y. see Nakatsuka, S. 5627
- Murasugi, A. see Kondo, N. 925
- Murphy, A. see Gilmore, C.J. 3269
- Murray, B.J. see Detty, M.R. 539
- Murray, M. see Houghton, J.D. 5703
- Murray, R.D.H. and Jorge, Z.D.
Synthesis and structure revision
of the coumarin, celerin, 5897
- Murray, R.D.H. and Jorge, Z.D.
Efficient syntheses of the cou-
marins, coumurrayin, xantho-
oxylein and trachyphyllin, 3403
- Murray, R.D.H. and Jorge, Z.D.
Efficient syntheses of the cou-
marins, nordentatin, dentatin
and clausarin, 3773
- Murray, R.W. and Banavali, R.
- Formation of a *K*-region arene
oxide by intramolecular *O* atom
transfer, 2327
- Murray, W.V. see Büchi, G. 2527
- Murtiashaw, C.W. see Burke, S.D.
2949
- Mushambi, C.F. see Reid, S.T. 2209
- Muzart, J., Pale, P. et Pete, J.P.
Photooxydation régiosélective
de complexes η^3 -allylpalladium
Accès à des composés car-
bonylés α,β -insaturés fonction-
nalisés en γ , 4567
- Naab, P. see Häbich, D. 2559
- Nabinger, R.C. see Anderson, R.C.
2741
- Nacy, W.G. see Hatam, N.A.R. 4455
- Nadi, A.-I. see Chantegrel, B. 381
- Nagai, Y. see Ishitsuka, M. 5117
- Nagakura, N. see Ruegger, M. 2643
- Nagano, T., Yokoohji, K. and Hirobe,
M. Direct epoxidation of poly-
cyclic aromatic compounds by
superoxide in the presence of
phosgene dimer, 3481
- Nagano, T. see Mashino, T. 5113
- Nagao, Y., Yamada, S. and Fujita, E.
Synthetic studies on virginiamycin
M2: A useful model experiment
for construction of the 1,3-
oxazole moiety, 2287
- Nagao, Y., Yamada, S. and Fujita, E.
Synthetic studies on virginiamycin
M2: Functionalization at the 2-
methyl group of 4-*t*-butoxy-
carbonyl-2-methyl-1,3-oxazole,
2291
- Nagaoka, H. see Matsunaga, H. 3009
- Nagasaki, M. see Ohnuma, T. 4253
- Nagashima, H., Wakamatsu, H.,
Itoh, K., Tomo, Y. and Tsuji, J.
New regio- and stereoselective
preparation of trichlorinated γ -
butyrolactones by copper cata-
lyzed cyclization of allyl tri-
chloroacetates, 2395
- Nagata, M. see Hirokami, S. 5237
- Nagata, R. see Saito, I. 1737, 4439
- Nagata, T. see Fujimori, K. 5231
- Nagy, J.O. see Kraus, G.A. 3427
- Naidu, M.V. see Parry, R.J. 1133
- Naik, V.G. see Sonawane, H.R. 3025
- Nakada, T. see Ojima, J. 5273
- Nakagawa, A. see Ōmura, S. 3643
- Nakagawa, H. see Ishibashi, H. 3877
- Nakagawa, M., Matsuki, K. and Hino,
T. A new synthesis of beta-
carboline, 2171
- Nakai, H. see Tsuji, N. 389
- Nakai, S. see Takemoto, T. 1057
- Nakai, T. see Mikami, K. 513, 795
- Nakajima, T. see Toyota, A. 1179
- Nakajima, T. see Mandai, T. 4993
- Nakajo, E. see Ito, Y. 2881
- Nakajo, T. see Suda, H. 1513
- Nakamura, E., Shimada, J., Horiguchi,
Y. and Kuwajima, I. Formation
and characterization of trichloro-
titanium enolates, 3341
- Nakamura, E. and Kuwajima, I. Aldol
reaction of trichlorotitanium eno-
lates. Revaluation of the boat
transition state, 3343
- Nakamura, E. and Kuwajima, I.
Erythro selective aldol reaction of
 α -trichlorostannyl ketones, 3347
- Nakamura, H., Wu, H., Kobayashi, J.,
Ohizumi, Y., Hirata, Y.,
Higashijima, T. and Miyazawa, T.
Agelasidine-A, a novel sesquiter-
pene possessing antispasmodic
activity from the Okinawa sea
sponge *Agelas* sp., 4105
- Nakamura, K. see Ohno, A. 1263
- Nakamura, K., Yasui, S., Ohno, A.
and Oka, S. NAD(P)⁻-NAD(P)H
model. 41. Reduction of sulfone
acetate by a model of NAD(P)H,
2001
- Nakamura, K. see Yasui, S. 3331
- Nakamura, K., Ohno, A. and Oka, S.
Reduction by a model of
NAD(P)H. 44. Transition metal
catalyzed reduction of allylic
acetate, 3335
- Nakanishi, K. see DiNovi, M. 855
- Nakanishi, K. see Schneider, J.A.
3859
- Nakata, T., Tanaka, T. and Oishi, T.
Stereoselective reduction of α -
hydroxy ketones, 2653
- Nakata, T., Fukui, M. and Oishi, T.
Stereoselective synthesis of (\pm)-
blastomycinone and formal total
synthesis of antimycin A₃, 2657
- Nakata, T., Fukui, M., Ohtsuka, H.
and Oishi, T. Stereoselective syn-
thesis of the synthons having
three consecutive chiral centers,
2661
- Nakata, T., Takao, S., Fukui, M.,
Tanaka, T. and Oishi, T. Stereo-
selective synthesis of the func-
tionalized *syn*-1,3,5,7-tetraol,
3873
- Nakatani, M. see Utaka, M. 803
- Nakatsuka, M. see Ito, Y. 2881
- Nakatsuka, S., Yamada, K., Yoshida,
K., Asano, O., Murakami, Y. and
Goto, T. Total synthesis of
bicyclomycin, 5627
- Nakatsuka, S. see Toyama, Y. 5753
- Nakayama, J., Sugiura, H. and
Hoshino, M. Reaction of 1,3-
benzodithiol-2-ylidenes with
elemental sulfur and selenium: A

- convenient preparation of 2-thioxo- and 2-selenoxo-1,3-benzodithiols, 2585
- Nakayama, J., Machida, H. and Hoshino, M. A new reduction system: Combination of sodium sulfide (sodium hydrosulfide) with phase transfer agent in a two-phase mixture. Reductive debromination of *vic*-dibromides to olefins, 3001
- Nakayama, J., Sakai, A., Tokiyama, A. and Hoshino, M. Thermolysis of 1,3-dithiol-2-yl azides and thermal properties of the resulting 1,4,2-dithiazines, 3729
- Nakazawa, M. see Kumadaki, I. 1055
- Nakazono, Y. see Yamaguchi, R. 1801
- Namai, T. see Kato, T. 4715
- Namikawa, M. see Ichikawa, T. 3337
- Namiki, M. see Osawa, T. 4719
- Namiwa, K. see Fujise, Y. 4261
- Namy, J.L., Souppé, J. and Kagan, H.B. Efficient formation of pinacols from aldehydes or ketones mediated by samarium diiodide, 765
- Nanjundiah, B.S. see Sonawane, H.R. 3025, 3917
- Naoki, H. see Imoto, M. 4017
- Napolitano, E., Fiaschi, R. and Marsili, A. Base-catalysed cyclization of N-alkyl-(*E*)-stilbene-2-carboxamides, 1319
- Narasimhan, N.S. and Ammanamanchi, R. A useful method to introduce ortho amino groups in aromatic compounds, 4733
- Nardin, G. see Forchiassin, M. 2909
- Narisnao, E. see Guanti, G. 817
- Narula, A.S. Stereoselective introduction of chiral centres in acyclic precursors: A probe into the transition state of m-chloroperbenzoic (m-CPBA) acid epoxidation of acyclic allylic alcohols and its synthetic implications, 5421
- Nash, S.A. see Gammill, R.B. 3435
- Naso, F. see Cutolo, M. 4603
- Nation, J.L. see Battiste, M.A. 2611
- Natsume, I. see Okuno, T. 5653
- Natu, A.A. see Gogte, V.N. 4131
- Navech, J. see Meriem, A. 1975
- Navech, J. see Karaghiosoff, K. 2137
- Navech, J., Majoral, J.P. and Kraemer, R. Synthesis of the first stable metadithiophosphonate, 5885
- Nayak, U.R. see Shitole, H.R. 2411, 4739
- Neef, G., Sauer, G. and Wiechert, R. Influence of bulky 11 β -substituents on reactivity of estrene derivatives, 5205
- Negaki, H. see Ogita, T. 2283
- Negishi, E. and Chatterjee, S. Highly regioselective generation of "thermodynamic" enolates and their direct characterization by NMR, 1341
- Negishi, E., Matsushita, H., Mobayashi, M. and Rand, C.L. A convenient synthesis of unsymmetrical bibenzyls, homoarylarenes, and homopropargylarenes via palladium-catalyzed cross coupling, 3823
- Negishi, E., Bagheri, V., Chatterjee, S., Luo, F.-T., Miller, J.A. and Stoll, A.T. Palladium-catalyzed acylation of organozincs and other organometallics as a convenient route to ketones, 5181
- Nelson, G.L. and Verdine, G.L. The base promoted oligomerization of 15-dehydro-prostaglandin B₁: dimer formation and structural implications for a complex mixture termed PG_BX, 991
- Nelson, W.M. see White Dixon, D.K. 4393
- Nemoto, H. see Takahashi, T. 2005, 3485, 3489
- Nemoto, H., Wu, X.-M., Kurobe, H., Ihara, M., Fukumoto, K. and Kametani, T. Synthetic studies toward to 1-hydroxyvitamin D₃ - stereoselective synthesis of (\pm)-(Z)-2-(3 β ,5 α -dihydroxy-2-methylenecyclohexylidene)ethylidenecyclohexane, 4257
- Nethercott, W. see Baird, N.S. 605
- Neunhoeffer, H. und Hammann, H. 1,2,4-triazino[6,6-3]-1,2,4-triazine, 1767
- Neville Jones, D. see Brown, P.J. 405
- Neville, Jones, D. and Lumbard, K.W. Synthesis of a cyclic sulphonamido prostaglandin analogue, 1647
- Newcomb, M. see Smith, J.K. 3559
- Ng, A.S. see Attah-Poku, S.K. 677
- Ng, L.L. see Cook, M.D. 3761
- Nguyen, S. see Shea, K.J. 4173
- Nicholas, K.M. see Padmanabhan, S. 2239
- Nichols, D.E. see Lloyd, D.H. 4561
- Nickel, W.-U. see Krebs, A. 4821
- Nickolson, R.C. and Vorbrüggen, H. Synthesis of stable furan prostacyclin analogs, 47
- Niewöhner, U. see Leyendecker, J. 2375
- Niida, T. see Minowa, N. 2391
- Nilsson, L. see Sterner, O. 1415
- Nilsson, L. see Kihlberg, J. 4631
- Nimbalkar, M. see Chhaya, P. 5551
- Ninagawa, A. see Matsuda, H. 789
- Ninagawa, Y. see Suzuki, S. 5103
- Ninova, P. see Koblicová, Z. 4381
- Nishi, T. see Oikawa, Y. 1987, 3635, 4037
- Nishida, S. see Tsuji, T. 1269, 3361
- Nishida, T. see Wahlberg, I. 843
- Nishida, T. see Suzuki, S. 5103, 5737
- Nishide, H. see Nishizawa, M. 2581
- Nishiguchi, T. see Sundberg, R.J. 4773
- Nishihara, Y. see Akiba, K. 5269
- Nishijima, K. see Takahashi, K. 205
- Nishikawa, J. see Inamoto, N. 5265
- Nishimoto, N. see Takemoto, T. 1057
- Nishinaga, A., Ohara, H., Tomita, H. and Matsuura, T. Mechanism of Co(Salen)-catalyzed oxygenolysis of indole ring as a model for the tryptophan-2,3-dioxygenase reaction, 213
- Nishino, T. see Hata, S. 4729
- Nishioka, K. see Iyoda, M. 2861
- Nishitani, T. see Horikawa, H. 2193
- Nishiya, see Tabushi, I. 5005
- Nishiyama, H., Sakuta, K., Osaka, N. and Itoh, K. Silicon-directed Beckmann fragmentation. Catalytic cleavage of cyclic β -trimethylsilylketoxime acetates with trimethylsilyl trifluoromethanesulfonate, 4021
- Nishiyama, S. and Yamamura, S. Total syntheses of (\pm)-aerothionin and (\pm)-homoaerothionin, 3351
- Nishizawa, M., Takenaka, H., Nishide, H. and Hayashi, Y. A new olefin cyclization agent, mercury (II) trifluoromethanesulfonate-amine complex, 2581
- Nishizawa, M., Adachi, K. and Hayashi, Y. Synthesis of types II and III cyanolipids, 4447
- Nishizawa, N. see Seto, H. 495
- Niwa, H., Ban, N. and Yamada, K. Total synthesis of (\pm)-cycloseychellene, a novel tetracyclic sesquiterpene, 937
- Niwa, H., Ojika, M., Wakamatsu, K., Yamada, K., Hirono, I. and Matsushita, K. Ptaquiloside, a novel norsesterpenoid glucoside from bracken, *Pteridium aquilinum* var. *Latiusculum*, 4117
- Niwa, H., Ojika, M., Wakamatsu, K., Yamada, K., Ohba, S., Saito, Y., Hirono, I. and Matsushita, K. Stereochemistry of ptaquiloside, a novel norsesterpenoid glucoside from bracken, *Pteridium aquilinum* var. *Latiusculum*, 5371
- Niwa, H., Uosaki, Y. and Yamada, K. Total synthesis of (\pm)-otonecine, a

- necine base of pyrrolizidine alkaloids, 5731
- Niwa, M. see Shizuri, Y. 1053
- Nixon, N.S., Scheinmann, F. and Suschitzky, J.L. Heterocyclic syntheses with allene-1,3-dicarboxylic esters and acids: New chromene, ghomone, quinolone, α -pyrone and coumarin syntheses, 597
- Nobayashi, Y. see Yamaguchi, M. 5121
- Nogami, T. see Ohnishi, S. 2401
- Nogami, Y. see Ogawa, H. 1045
- Noguchi, A. see Kuzuya, M. 2271
- Noguchi, H. see Xin-Sheng, Y. 2407, 3247
- Nohira, H. see Saigo, K. 511
- Nokami, J. see Mandai, T. 1517
- Nomoto, S., Takasaki, M., Sakata, N. and Harada, K. Flame-induced oxidation reaction of aliphatic amines in an aqueous solution, 3357
- Nomura, Y. see Hayama, T. 2795
- Nonhebel, D.C. see Armstrong, D.R. 1071
- Nordberg, R.E. see Bäckvall, J.-E. 411
- Norinder, U., Tanner, D. and Wenneström, O. [2₆] paracyclophanehexaenes, 5411
- Normant, J.F. see Mangeney, P. 373
- Normant, J.F. see Bourgain-Commerçon, M. 5077
- Normant, J.F. see Jabri, N. 5081
- Normant, J.-F. see Martin, S. 5615
- Normant, J.F. see Scott, F. 5767
- Norris, W.P. see Spear, R.J. 1555
- Norte, M. see González, A.G. 847, 1075, 4143
- North, P.C. see Mills, L.S. 409
- Novak, J. and Salemink, C.A. Cannabis XXVI. Total synthesis of cannabifuran, 101
- Novi, M. see Dell'Erba, C. 1191
- Noyori, R. see Hayakawa, Y. 1165, 5641
- Noyori, R. see Suzuki, M. 1187
- Noyori, R. see Tanaka, T. 4103
- Nozaki, H. see Okuda, Y. 2015
- Nozaki, H. see Kanemoto, S. 2185
- Nozaki, H. see Oda, H. 2877
- Nozaki, H. see Matsubara, S. 3741
- Nozaki, H. see Takai, K. 5281
- Nozaki, Y. see Harada, T. 5665
- Nozoe, S., Koike, Y., Tsuji, E., Kusano, G. and Seto, H. Isolation and structure of gymnoprenols, a novel type of polyisoprenepolymers from *Gymnopilus spectabilis*, 1731
- Nozoe, S., Koike, Y., Kusano, G. and Seto, H. Structure of gymnopilin, a bitter principle of an hallucino-
- genic mushroom, *gymnopilus spectabilis*, 1735
- Nutaitis, C.F. and Gribble, G.W. Chemoselective reduction of aldehydes with tetra-*n*-butylammonium triacetoxyborohydride, 4287
- Nwokogu, G.C. see Hart, H. 5721
- Nwokogu, G.C. and Hart, H. Attempts to polyisithiate tetrabromoarenes. The compatibility of methyl sulfate and butyllithium, 5725
- Nyström, J.E. see Genét, J.P. 2745
- Oae, S., Asada, K. and Yoshimura, T. The mechanistic mode of oxidation of substituted N,N-dimethylanilines, thioanisoles, and methyl phenyl sulfoxides by 5-ethyl-4*a*-hydroperoxy-3-methyl-lumiflavin (4*a*-FIET-OOH), 1265
- Oae, S. see Furukawa, N. 3243
- Oae, S. see Fujimori, K. 5231
- Obayashi, M. see Hiyama, T. 395, 4109, 4113
- Obrecht, D. und Heimgartner, H. 3-Dimethylamino-2,2-dimethyl-2H-azirin als AlB-Aequivalent bei Heterocyclen-Synthesen; Synthese von 6-, 9-, 12- und 15-gliedrigen Ringen, 1921
- Ochiai, H. see Tamari, Y. 3869
- Ochiai, M., Fujita, E., Arimoto, M. and Yamaguchi, H. Oxidation of 2-substituted allylsilane to conjugated enal using hypervalent organoiodine compound and synthesis of α -methylene γ - and δ -lactones, 777
- Ochiai, M., Ukita, T. and Fujita, E. A new synthesis of γ -hydroxy-vinylstannanes and silanes utilizing β -stannylvinyl and β -silylvinyl sulfones, 4025
- O'Connor, C.J. and Lomax, T.D. Evidence for the sequential self-association model in reversed micelles, 2917
- Oda, H., Sato, M., Morizawa, Y., Oshima, K. and Nozaki, H. Cleavage of silicon-vinyl carbon bond by ⁿBu_nNF, 2877
- Oda, M. see Kanao, Y. 1727
- Oda, M. see Iyoda, M. 2861
- Oda, M. see Watabe, T. 5623
- Oda, Y. see Hata, S. 4729
- Odaira, Y. see Tobe, Y. 3639
- Odashima, S. see Takemoto, T. 1057
- Oehler, U.M. see Jansen, E.G. 669
- Oehlschlager, A.C. and Czyzewska, E. Chiral epoxides as precursors of chiral allenenes, 5587
- Oelting, M. see Koll, P. 2557
- Oftring, A. see Martin, H.-D. 5469
- Ogasawara, K. see Takano, S. 4233
- Ogawa, H., Fukuda, C., Imoto, T., Miyamoto, I., Taniguchi, Y., Koga, T. and Nogami, Y. Synthesis of a di-oxygen bridged [18]annulene: A new example of strongly diatropic [18]annulene with a twisted perimeter, 1045
- Ogawa, S. see Saigo, K. 511
- Ogawa, S. see Furukawa, N. 3243
- Ogihara, T. see Ogino, T. 2781
- Ogihara, T. and Mitsunobu, O. Reaction of 4,6-O-benzylidene-3-O-mesylalal with allylic Grignard reagents. Highly regio- and stereoselective preparation of 2,6-disubstituted dohydropyan rings, 3505
- Ogilvie, K.K., Hakimelahi, G.H., Proba, Z.A. and Usman, N. Conversion of ribonucleosides to protected 3'-deoxynucleosides, 865
- Ogino, H. see Seto, H. 495, 1805
- Ogino, T., Awano, K., Ogihara, T. and Isogai, K. Intramolecular olefin metathesis of tricyclic bridged dienones. Regiospecific and reversible cycloreversion of trishomocubanones to cis,syn,cis-tricyclopentanoids, 2781
- Ogita, T., Gunji, S., Fukazawa, Y., Terahara, A., Kinoshita, T., Nagaki, H. and Beppu, T. The structures of fosfazinomycins A and B, 2283
- Ogoshi, H., Homma, M., Yokota, K., Toi, H. and Aoyama, Y. Synthesis of β -trifluoromethylpyrroles, 929
- Ogoshi, H. see Aoyama, Y. 1183
- Ogoshi, H. see Homma, M. 4343
- Ogura, F. see Otsubo, T. 4851
- Ogura, H. see Takeda, K. 4451, 4569
- Ogura, K. see Yamashita, M. 79
- Ogura, K., Fujita, M., Inaba, T., Takahashi, K. and Iida, H. An efficient 1,3-asymmetric induction accompanied with epimerization at the 2-position. Stereoselective reduction of α -substituted β -keto sulfoxides under basic conditions, 503
- Ogura, K., Yahata, N., Takahashi, K. and Iida, H. A novel route from a carboxylic acid to a carbaldehyde using methylthiomethyl *p*-tolyl sulfone, 5761
- Oh, T. see McGarvey, G.J. 2733
- Ohara, H. see Nishinaga, A. 213
- Ohara, Y. see Arai, K. 1451
- Ohashi, Y. see Shimizu, I. 3865
- Ohba, S. see Niwa, H. 5371
- Ohizumi, Y. see Nakamura, H. 4105

- Ohkata, K., Takee, K. and Akiba, K. Decelerated methyl transfer from δ -ammoniomethylsulfurane compound with the corresponding methysulfonium salts, 4859
- Ohler, E., Zbiral, E. and El-Badawi, M. A novel and versatile synthesis of heterocyclic aldehydes using dialkyl 3-oxo-1-alkenyl-phosphonates, 5599
- Ohnishi, S., Nogami, T. and Mikawa, H. 1,4,9,10-tetrathiaanthracene, a promising donor molecule for highly conductive organic complexes, 2401
- Ohno, A., Kobayashi, H., Nakamura, K. and Oka, S. NAD(P)⁺-NAD(P)H model. 40. Effect of water on the rate of reduction, 1263
- Ohno, A. see Nakarmua, K. 2001, 3335
- Ohno, A. see Yasui, S. 3331
- Ohno, A., Kobayashi, H., Oka, S. and Goto, T. NAD(P)⁺-NAD(P)H model. 46. Kinetic study on the reduction with a sulfur-containing NAD(P)H model, 5123
- Ohno, M. see Okano, K. 217
- Ohnuma, T., Tabe, M., Shiya, K., Ban, Y. and Date, T. A novel annulation method for the synthesis of some nitrogen-containing heterocycles: The synthesis of (+)-heliotridane and (\pm)-nuphar indolizidine, 4249
- Ohnuma, T., Nagasaki, M., Tabe, M. and Ban, Y. An efficient synthesis of medium-sized ketolactams through controlled Crisscross annulation: A synthesis of (\pm)-dihydrodesoxytocine, 4253
- Ohshiro, Y. and Hirao, T. 399, 1255
- Ohshiro, Y., Itoh, S., Kurokawa, K., Kato, J., Hirao, T. and Agawa, T. Micelle enhanced oxidation of amines by coenzyme PQQ, 3465
- Ohsumi, T. see Watanabe, Y. 4121
- Ohta, T., Shudo, K. and Okamoto, T. Reaction of triphenylmethyl cation in trifluoromethanesulfonic acid. Reaction of carbocations, 71
- Ohta, T. see McPhail, A.T. 5377
- Ohtani, M. see Tobe, Y. 3639
- Ohtsuka, H. see Nakata, T. 2661
- Ohtsuka, J. see Shizuri, Y. 2577
- Ohtsuka, T., Shirahama, H. and Matsumoto, T. Synthesis of pentalenolactone E and F through biogenetic like cyclization of humulene, 3851
- Oikawa, Y., Nishi, T., Itaya, H. and Yonemitsu, O. Stereocontrolled synthesis of chiral synthons for polyketide-derived natural products, 1987
- Oikawa, Y., Nishi, T. and Yonemitsu, O. Stereocontrolled synthesis of a segment having six consecutive chiral centers for the synthesis of erythromycin A from D-glucose, 3635
- Oikawa, Y., Nishi, T. and Yonemitsu, O. Kinetic acetalization for 1,2- and 1,3-diol protection by the reaction of p-methoxyphenylmethyl methyl ether with DDQ, 4037
- Oishi, T. see Akita, H. 2009
- Oishi, T. see Nakata, T. 2653, 2657, 2661, 3873
- Oishi, T. see Hayashi, T. 2665.
- Ojika, M. see Niwa, H. 4117
- Ojika, M. see Niwa, H. 5371
- Ojima, I. see Hirai, K. 785
- Ojima, I. see Fujita, M. 4573
- Ojima, J., Itagawa, K. and Nakada, T. The synthesis of pentatrideca-, pentapentadeca-, pentaheptadeca-, and pentanonadeca-fulvalene derivatives, 5273
- Oka, S. see Ohno, A. 1263, 5123
- Oka, S. see Nakamura, K. 2001, 3335
- Okabe, T. see Kondo, T. 3647
- Okamoto, H. see Tamagaki, S. 4847
- Okamoto, T. see Ohta, T. 71
- Okamoto, T. see Hashimoto, Y. 1523
- Okamoto, Y. see Kawada, Y. 791
- Okamoto, Y. see Hayashi, T. 807
- Okamoto, Y. see Kawada, Y. 5359
- Okamoto, Y. Kanematsu, K., Fujiyoshi, T. and Osawa, E. Remarkably fast [2+2] cyclo-reversion in methoxy substituted Cookson's cage ketones assisted by the capto-dative substituent effect and by the through-bond interaction, 5645
- Okamura, N. see Tanaka, T. 4103
- Okamura, W.H. see Van Kruchten, E.M.G.A. 3939
- Okano, K., Izawa, T. and Ohno, M. A general approach to *trans*-carbapenem antibiotics. Enantioselective synthesis of key intermediates for (+)-PS-5, (+)-PS-6, and (+)-thienamycin, 217
- Okonkwo, J.O. see Lee, T.V. 323
- Oku, A., Yokoyama, T. and Harada, T. β -Peroxypropiolactones from cyclopropanone cyanohydrins and their novel rearrangement, 4699
- Oku, A. see Harada, T. 5665
- Okuda, S. see Funabashi, H. 2673
- Okuda, S. see Furukawa, J. 5257, 5261
- Okuda, T. see Kuzuya, M. 2271, 4237
- Okuda, Y., Sato, M., Oshima, K. and Nozaki, H. New syntheses of allylsilanes and vinylsilanes by means of PhMe₂Si-AlEt₂, 2015
- Okuno, T. see Aoyagi, F. 1991
- Okuno, T., Natsume, I., Sawai, K., Sawamura, K., Furusaki, A. and Matsumoto, T. Structure of anti-fungal and phytotoxic pigments produced by *Alternaria* SPS, 5653
- Okuyama, E., Yamazaki, M., Kobayashi, K. and Sakurai, T. Paraherquinin, a new meroterpenoid from *Penicillium paraherquei*, 3113
- Okuyama, N. see Murakami, Y. 2189
- Olk, B. see Mühlstädt, M. 3979
- Olson, K.D. see Gassman, P.G. 19
- Olsson, T. see Tanner, D. 5407
- Oluwadiya, J. see Sterner, O. 1415
- Omote, Y. see Kashima, C. 209
- Omote, Y. see Aoyama, H. 1169
- Omura, S. see Funabashi, H. 2673
- Omura, S., Nakagawa, A., Aoyama, H., Hinotozawa, K. and Sano, H. The structures of diazaquinomycins A and B, new antibiotic metabolites, 3643
- Onan, K.D. see Hassner, A. 1135
- Onan, K.D. see Berger, J.G. 2469
- Onanga, M. et Khuong-Huu, F. Configuration relative et synthèse de la (\pm)-mostuéine, 3627
- Onda, H. see Aoyama, Y. 1183
- Ondruschka, B. see Kopinke, F.D. 869
- Ono, N., Miyake, H., Fujii, M. and Kaji, A. A new synthesis of α -methylene carbonyl compounds, 3477
- Onogi, K., Kido, M., Hori, M., Kataoka, T. and Shimizu, H. Synthesis and structure of novel halosulfuranes, 5-chloro- and 5-bromo-5,11-epoxy-6,11-dihydrodibenzo[*b,e*]thiepins, 4337
- Onozuka, J. see Yamashita, M. 79
- Onrubia, C. see Ballester, M. 2121
- Oota, Y. see Utaka, M. 2567
- Oplinger, J.A. see Burke, S.D. 2949
- Oppolzer, W., Moretti, R., Godel, T., Meunier, A. and Löher, H. Asymmetric 1,4-additions of coordinated MeCuBF₃ to chiral enoates: Enantioselective synthesis of (S)-(–)-citronellic acid, 4971
- Oppolzer, W., Pitteloud, R., Bernardinelli, G. and Baettig, K. Asymmetric Michael addition of a chiral ester-dienolate: Enantio-

- selective synthesis of
(-)-khusimone, 4975
- Orahovats, A.S., Bozhkova, N.V. and
Hilpert, H. Photolysis and
pyrolysis products of iso-
germacrone, 947
- Orazi, O.O. see Corral, R.A. 2359
- Orban, J. and Turner, J.V. An econ-
omical Diels-Alder strategy for
the synthesis of daphniphyllum
alkaloids, 2697
- Orejkaja, T.S. see Rosenthal, Z. 1691
- Ornstein, P.L. see Trost, B.M. 2833
- Orr, G.R. see Pontoni, G. 151
- Ortiz, M.J. see Armesto, D. 1197
- Ortuno, R.-M. see D'Angelo, J. 1489
- Osa, T. see Ueno, A. 5245
- Osaka, K. see Mandai, T. 1171
- Osaka, N. see Nishiyama, H. 4021
- Osakada, K. see Ishii, Y. 2677
- Osawa, E. see Shirahama, H. 2869
- Osawa, E. see Okamoto, Y. 5645
- Osawa, T. and Namiki, M. Structure
elucidation of streptindole, a
novel genotoxic metabolite
isolated from intestinal bacteria,
4719
- Osborne, D.J. and Baker, S.R. 4469
- Oshima, K. see Okuda, Y. 2015
- Oshima, K. see Kanemoto, S. 2185
- Oshima, K. see Oda, H. 2877
- Oster, T.A. and Harris, T.M. Acety-
lations of strongly basic and
nucleophilic enolate anions with
N-methoxy-N-methylacetamide,
1851
- Osuka, A., Mori, Y., Shimizu, H.
and Suzuki, H. A new synthesis of
 α,β -unsaturated carboxylic esters
using dialkyltelluronium
carbethoxymethylide, 2599
- Osuka, A. and Suzuki, H. Dialkyl-
telluronium allylide as a novel
reagent for synthesis of α,β -
unsaturated epoxides, 5109
- Otake, N. see Seto, H. 495, 1805
- Otake, N. see Takahashi, S. 499
- Otera, J. see Mandai, T. 1171, 4993
- Otsubo, T. see Higuchi, H. 2593
- Otsubo, T., Ogura, F. and Misumi, S.
Triple-layered[2.2]naphthalene-
nophane, 4851
- Otsuji, Y. see Mizuno, K. 3849
- Ott, W. see Liotta, D. 2473
- Ottoboni, T.B. see Dauben, W.G.
5709
- Ouhab, L. see Lequan, M. 3107
- Oudenes, J. see Hooz, J. 5695
- Ourisson, G. see Toth, J.O. 1081
- Outset, J.B., Mioskowski, C. and
Solladie, G. Synthesis of vinylic
epoxides via arsonium ylides,
4419
- Outram, J.R. see Loepky, R.N.
- 4271
- Overman, L.E. and Renaldo, A.F.
Palladium dichloride-promoted
cyclizations of 1,5-dienes. A new
method for forming cyclohexenes,
2235
- Overman, L.E. and Renaldo, A.F.
Palladium dichloride Catalyzed
cope rearrangements of function-
alized cyclic 1,5-dienes, 3757
- Owen, O.J.R. see Ramage, R. 4487
- O-Yang, C. and Fried, J. Separation
of acetylenic prostaglandin
isomers as Cobalt complexes,
2533
- Ozaki, N. see Hirose, Y. 1535
- Paal, M. see Paulsen, H. 1759
- Pacheco, H. see Picq, D. 1399
- Paddon-Row, M.N. see Jørgensen,
F.S. 5415
- Padmanabhan, S. and Nicholas, K.M.
Synthesis of shopped (1,4) diynes
via coupling of (propargylacetate)
dicobalt hexacarbonyl complexes
with alkynyl alanes, 2239
- Padwa, A., Pulwer, M.J. and Rosen-
thal, R.J. Rearrangement in the
1,3'-bicycloprenyl series, 983
- Padwa, A. and Chen, Y.-Y. Synthesis
or pyrrolidines using an α -cyano-
aminosilane as an azomethine
ylide equivalent, 3447
- Padwa, A., Haffmanns, G. and
Tomas, M. Cesium fluoride
induced desilylation reaction of
immonium salts derived from
vinyllogous amides, 4303
- Pagès, O. see d'Angelo, J. 5869
- Paknikar, S.K. see Shitole, H.R. 4739
- Pakrashi, S.C., Mukhopadhyay, R.,
Dastidar, P.P.G., Bhattacharjya,
A. and Ali, E. Bharatamine – a
unique protoberberine alkaloid
from *Alangium lamarcii* THW.,
biogenetically derived from
monoterpene precursor, 291
- Pakrashi, S.C. see Ali, E. 2497
- Pale, P. see Muzart, J. 4567
- Palenzuela, J.A. see González, A.G.
969
- Palfreyman, M.N. see Elliott, J.D.
965
- Palmer, C.J. see Crombie, L. 3129
- Palmer, J.T. see Brooks, D.E. 3059
- Palmisano, G. see Danieli, B. 819
- Palomo, C. see Aizpuria, J.M. 4367
- Palumbo, G., Ferreri, C. and Caputo,
R. A new general synthesis of
halohydrins, 1307
- Pandit, V.S. see Gogte, V.N. 4131
- Panek, J.S. see Boger, D.L. 4511
- Pansegrouw, P.D. see Meyers, A.I. 4935
- Pantarotto, C. see Galliani, G. 4491
- Paoletti, C. see Meunier, G. 365
- Paolucci, C. see Cere, V. 839
- Papadopoulos, K. see Enders, D.
4967
- Papini, A. see Taddei, M. 2311
- Paquette, L.A. see Bulman-Page, P.C.
3555
- Paquette, L.A. see DeLuca, G. 4931
- Parisi, M. see Caristi, C. 2685, 3682
- Park, K.B. see Yoon, N.M. 5367
- Park, W.S. see Ashby, E.C. 1667
- Perrick, J. see Hussain, A. 609
- Party, R.J. and Naidu, M.V. Deter-
mination of the absolute configura-
tion of (-)-S-(2-carboxypropyl)-
L-cysteine, 1133
- Parsons, P.J. see Cutting, I. 4463
- Parsons, P.J. see Chandler, M. 5781
- Pasternak, M. and Morduchowitz, A.
Photosubstitution of benzyl
hydrogens with alcoholic moie-
ties. Selective formation of alkyl-
benzene carbinols, 3439
- Pasternak, M. and Morduchowitz, A.
Photochemical oxidation and
dimerization of alkylbenzenes.
Selective reactions of the alkyl
side groups, 4275
- Patel, A.M. see Davidson, R.S. 5907
- Patel, N.G. see Confalone, P.N. 5563
- Patel, S.K. and Paterson, I. *O*-silyl-
ated enolates in organic synthesis:
Sulphur-mediated alkylation of
esters with alkenes, 1315
- Patel, S.K. see Paterson, I. 3395
- Paterson, I. Studies in macrolide syn-
thesis: A synthesis of two chiral
fragments of oleandomycin and
lankamycin, 1311
- Paterson, I. see Patel, S.K. 1315
- Paterson, I., Patel, S.K. and Porter,
J.R. Studies in macrolide syn-
thesis: An efficient synthesis of
two chiral fragments of
erythronolide A, 3395
- Paterson, I. see Alexander, R.P. 5911
- Paton, R.M. and Hamilton, D.G. 1,3-
Dipolar cycloadditions of nitrile
oxides to aryl thiocyanates: A
new synthetic route to 5-arylthio-
1,2,4-oxadiazoles, 5141
- Pattenden, G. see Horton, M. 2125
- Pattenden, G. and Robertson, G.M.
Reductive cyclisation of allenic
ketones. A new approach to func-
tionalised five-membered rings,
4617
- Paulen, W. see Appel, R. 2639
- Paulsen, H., Paal, M. und Schultz, M.
syntheseblock β -D-Gal(1 \rightarrow 3)-D-
GalNAc zur selektiv-simultanen
Anknüpfung an Peptide zu
O-Glycopeptiden, 1759

- Paulus, E.F.** see **Henning, R.** 5347
Paulus, E.F. see **Jäger, V.** 5501
Pauson, P.L. see **Armstrong, D.R.** 1071
Pavanarasivam, G. see **Jarvis, B.B.** 3539
Payzant, J.D., Montgomery, D.S. and **Strausz, O.P.** Novel terpenoid sulfoxides and sulfides in petroleum, 651
Peacock, S. see **Warner, P.** 4169
Pearson, A.J. and Richards, I.C. Direct carbomethoxymethylation of organoiron and organo-manganese complexes using the Reformatsky reagent, 2465
Pearson, A.J., Ray, T., Richards, I.C., Clardy, J. and Silveira, L. Conjugate phenylselenolactonization coupled with allylic selenoxide rearrangement for functionalizing dienylacetic acids, 5827
Pearson, D.A. see **Hendrickson, J.B.** 4657
Pearson, M.J. see **Branch, C.L.** 1649
Pearson, W.H. see **Trost, B.M.** 269
Pechine, J.M. see **Jullien, J.** 5525
Pechman, D.B. see **Geller, G.G.** 673
Pecquet-Dumas, F. see **d'Angelo, J.** 1403
Pedro, J.R. see **Arnó, M.** 1741
Pedrocchi-Fantoni, G. see **Fuganti, C.** 3753
Pedulli, G. see **Leardini, R.** 3381
Pellacani, L. see **Lociuro, S.** 593
Peloso, C. see **Catellani, M.** 813
Pelter, A., Ward, R.S., Collins, P., Venkateswarlu, R. and Kay, I.T. A general synthesis of 2,6-diaryl-3,7-dioxabicyclo[3.3.0]octane lignans applicable to the synthesis of unsymmetrical lignans, 523
Pelter, A., Singaram, S. and Brown, H. The dimesitylboron group in organic chemistry. 6. Hydroborations with dimesitylborane, 1433
Pelter, A., Ward, R.S. and Rao, R.R. An approach to the biomimetic synthesis of aryltetralin lignans, 621
Pelter, A., Singaram, B., Williams, L. and Wilson, J.W. The dimesitylboron group in organic synthesis 1. Introduction, 623
Pelter, A., Williams, L. and Wilson, J.W. The dimesityl boron group in organic synthesis 2. The C-alkylation of alkylidimesitylboranes, 627
Pelter, A., Singaram, B. and Wilon, J.W. The dimesitylboron group in organic synthesis. 3. Reactions of allyldimesitylborane, 631
Pelter, A., Singaram, B. and Wilson, J.W. The dimesitylboron group in organic synthesis. 4. The 'boron Wittig' reaction, 635
Pelter, A. see **Garad, M.V.** 637
Pelter, A., Ward, R.S., James, D.C. and Kamakshi, C. A novel and direct production of hydroxy-pyrones from furoic acid derivatives, 3133
Pelter, A., Singaram, S. and Brown, H. Erratum, 3162
Pennings, M.L.M., Kuiper, D. and Reinoudt, D.N. Synthesis of 1-hydroxyazetidines and their conversion into 1,4-diacetoxy-2-azetidinones, 825
Perales, A. see **González, A.G.** 847, 3033, 4143
Perales, A. see **Boente, J.M.** 2029
Perchonock, C.D., Finkelstein, J.A., Uzinskas, I., Gleason, J.G., Sarau, H.M. and Cieslinski, L.B. Dimethyleicosatrienoic acids: Inhibitors of the 5-lipoxygenase enzyme, 2457
Perdoncini, G. see **Castaldi, G.** 2487
Perez, F. see **Jullien, J.** 5525
Perez, J.A. see **Adams, D.R.** 517
Perez, L.A. see **Moss, R.A.** 685, 3418, 2719
Pérez, R. see **González, A.G.** 847, 1075, 4143
Perez-Ossorio, R. see **Armesto, D.** 1089, 1197
Perie, J.J. see **Monnier, E.** 3067
Perkins, P.G. see **Armstrong, D.R.** 1071
Perlstein, J.H. see **Detty, M.R.** 539
Perrone, E. see **Irving, J.R.** 1429
Perrone, E. see **Alpegiani, M.** 1623, 1627
Perrone, E., Alpegiani, M., Bedeschi, A., Foglio, M. and Franceschi, G. Desulphurative approaches to penem antibiotics. III. Synthesis and desulphurisation of 3-methyl-2-thiacephem-4-carboxylates, 1631
Perrone, E. see **Irving, J.R.** 2501
Perrone, E., Alpegiani, M., Bedeschi, A., Giudici, F., Foglio, M. and Franceschi, G. Disulphurative approaches to penem antibiotics. IV. Bromination of 3-methyl-2-thiacephems, a novel entry in the synthesis of potent antimicrobial agents, 3283
Perry, R. see **Rokach, J.** 5185
Peseckis, S.M. see **Roush, W.R.** 1377
Pete, J.P. see **Muzart, J.** 4567
Pete, J.-P. see **Henin, F.** 4687
Pete, J.-P. et Scholler, D. Cyclisation photochimique d'alcoxy-2-aryl-3 cyclohexenones, 5887
Peters, E.-M. see **Christl, M.** 353
Peters, E.-M. see **Quast, H.** 5595
Peters, J.A., Vijerberg, C.A.M., Kieboom, A.P.G. and van Bekkum, H. Lanthanide (III) salts of (S)-carboxymethoxy-succinic acid: chiral lanthanide shift reagents for aqueous solution, 3141
Peters, K. see **Christl, M.** 353
Peters, K. see **Quast, H.** 5595
Peters, W. see **Spur, B.** 1755, 2135
Peterson, B. see **Trost, B.M.** 4525
Peterson, G.E. see **Jones, R.C.F.** 4751, 4755, 4757
Peterson, J.R. see **Fristad, W.E.** 4547
Peterson, K. see **Huan, Z.** 2829
Petrakis, K.S., Batu, G. and Fried, J. The nitro-aldo reaction of α -ketoaldehydes with nitroalkanes yields α -diketones, 3063
Petrakis, K.S. and Fried, J. A novel synthesis of the cyclic carbinolamide moiety of the maytanansinoids, 3065
Pettman, A. see **Bedford, R.** 1553
Pfeiffer, B. see **Jacob, L.** 4327
Pfitzner, A. and Stöckigt, J. Vellosimine reductase, a specific enzyme involved in the cell free biosynthesis of sarpagine type alkaloids, 1695
Pfitzner, A. see **Stöckigt, J.** 2485
Pfitzner, A. and Stöckigt, J. Biogenetic link between sarpagine and ajmaline type alkaloids, 5197
Pfleiderer, W. see **Trichtinger, T.** 711
Pfleiderer, W. see **Heckel, A.** 5047
Pfleiderer, W. see **Himmelsbach, F.** 3583
Pfleiderer, W. see **Schulz, B.S.** 3587
Pham, P.Q. see **Shea, K.J.** 1003
Pham, T.N. see **Ashby, E.C.** 2825
Phillips, M.L., Bonjouklian, R., Jones, N.D., Hunt, A.H. and Elzey, T.K. 3-Oxa-5-carba analogues of β -lactam antibiotic, 335
Phillips, R.S. and Cohen, L.A. Synthesis of 2-bromo-L-tryptophan and 2-chloro-L-tryptophan, 5555
Phiwa, S. see **Prestwich, G.D.** 2461
Piccardi, P. see **Cassani, G.** 2513
Picconi, G. see **Baiocchi, L.** 3651
Piq, D., Cottin, M., Anker, D. et Pacheco, H. Utilisation du palladium comme catalyseur de N,N-didesylation, 1399
Piq, D., Anker, D., Roussel, C. et Laurent, A. Synthèse d' α , β aminofluorodesoxypyranosides de méthyle, 5619
Piel, N. see **Marugg, J.E.** 3989

- Pietra, F. see Guella, G. 3897
 Pigiére, Ch. see Bernardini, A. 3717
 Pigiére, Ch. see Bajgrowicz, J.A. 3721
 Pinhey, J.T. see Kozyrod, R.P. 1301
 Pinnick, H.W. see Kochhar, K.S.
 1323, 4785
 Pinto, A.C., Scofield, T.C.V. and
 Filho, R.B. Two new diterpenes
 with a rosane skeleton from
 Velloziaceae, 5043
 Pinto, I.L. see Brennan, J. 4731
 Pinto, P. see Girijavallabhan, V.M.
 3179
 Piotrowski, A. see Eisch, J.J. 2043
 Pirkle, W.H. Stackling of amide
 dipoles as an alternative to
 hydrogen bonds in chiral
 recognition rationales, 5707
 Pirrung, M.C. and Hwu, J.R. Carbene
 chemistry. Stereoselective
 synthesis of haloalkenes, 565
 Pitacco, G. see Barbarella, G. 1621
 Pitoni, E. see Caia, V. 3903
 Pitteloud, R. see Oppolzer, W. 4975
 Pittet, J.-L., Bouillant, M.-L.,
 Bernillon, J., Arpin, N. et Favre-
 Bonvin, J. Sur la présence de
 mycosporines-glutamine réduites,
 nouvelles molécules, chez plu-
 sieurs deutéromycètes, 65
 Pizzabiocca, A. see De Luca, G. 821
 Pizzabiocca, A. see Giacomello, P.
 4157
 Plat, M. see Baassou, S. 761
 Plat, M.M. see Alberici, G.F. 1937
 Plat, M.M. see Adam, G. 3609
 Platz, H. see Becker, D. 5505
 Platz, M.S. see Mueller, P.H. 485
 Platz, M.S. see Zayas, J. 3689
 Platz, M.S. see Barcus, R.L. 3955
 Platz, M.S. Carbene olefin complexes
 and carbene philicity, 4763
 Plusček, J. see Gordon, E.M. 3419
 Plusquellec, D. see Rouleau, F. 719,
 4195
 Pochat, F. Voie d'accès aux amino-6
 cyano-3-1H-pyridones-2 substi-
 tuées en 5 par un groupement SR,
 5073
 Pock, R. see Mayr, H. 2155
 Pollicino, S. see Cerè, V. 839
 Pollini, G.P. see Baraldi, P.G. 4871,
 4669
 Pomerantz, M. and Bittner, S. C-C-C
 bond angle dependence of one
 bond ^{13}C - ^{13}C coupling constants,
 7
 Ponaras, A.A. Axial allylation on the
 disphenol Claisen rearrangement,
 3
 Ponsford, R.J. see Brown, A.G. 2693
 Ponsinet, G. see Commercon, A.
 3725
 Ponticelli, S.F.F. see Adembri, G.
 5399
 Pontoni, G., Coward, J.K., Orr, G.R.
 and Gould, S.J. Stereochemical
 studies of enzyme-catalysed alkyl-
 transfer reactions. An NMR
 method for distinguishing
 between the two prochiral
 hydrogens at C-1' of spermidine,
 151
 Ponty, A. see Welzel, P. 3199
 Poochaivatananon, P. see Reutrakul,
 V. 531, 535
 Porskamp, P.A.T.W., Haltiwanger,
 R.C. and Zwanenburg, B. Com-
 plete asymmetric inductions in
 Diels-Alder reactions of chiral
 sulfines, 2035
 Porter, J.R. see Paterson, I. 3395
 Porter, N.A. and Mitchell, J.C. Intra-
 molecular alkylation of peroxides
 and hydroperoxides; peroxide
 transfer via peroxyonium inter-
 mediates, 543
 Puech-Baronnat, M. see Kaouadji, M.
 4675
 Pouet, M.-J. see Halle, J.-C. 493,
 2255
 Poulter, C.D. see Griffey, R.H. 4067
 Pourcelot, G. see Huche, M. 585
 Powell, M.F. see Kronis, J.D. 2423
 Pownar, T.H. see Burke, S.D. 4529
 Prabhakar, S. see Lobo, A.M. 2205
 Pradère, J.P. see Tea-Gokou, C. 3713
 Pradhan, S.K., Akamanchi, K.G. and
 Divakaran, P.P. A novel reductive
 cyclization involving attack by an
 oxime on an unconjugated alkyne.
 A new route to 4-aza sterols, 5017
 Praly, J.-P. Réduction stéréosélective
 d'halogénures de glycosyles par le
 deuterure de tributylétain, 3075
 Prasad, G. see Schaap, A.P. 3047
 Pratt, J.E. see Davidson, R.S. 5903
 Prestwich, G.D. and Phirwa, S. Syn-
 thesis of 29-fluorophytosterols:
 A novel class of insect-activated
 selective poisons, 2461
 Previero, A. see Sola, R. 1501
 Price, D. see Iddon, B. 413
 Price, M.F. see Wilson, S.R. 569
 Priesnitz, U. see Heine, H.-G. 2635
 Prinzbach, H. see Maas, M. 2134
 Prinzbach, H., Schal, H.-P. and
 Fischer, G. Stereoelectronic
 aspects of the $[\pi_2 + \sigma_2]$ photo-
 cycloaddition reaction **-
 $[\pi_2 + \sigma_2]$ photocycloadditions
 in the tetracyclo [4.4.0.0^{2,10}.
 0^{3,7}]dec-4-ene system, 2147
 Prinzbach, H. see Beck, A. 2151
 Prinzbach, H. see Rücker, C. 4099
 Prinzbach, H. see Fessner, W.-O.
 5857
 Proba, Z.A. see Ogilvie, K.K. 865
 Proctor, G. see Batmangherlich, S.
 2889
 Pross, A. On the breakdown of rate-
 equilibrium relationships, 835
 Pryor, A.W. and Hendrickson, W.H.,
 Jr. The mechanism of radical pro-
 duction from the reaction of N,N-
 dimethylaniline with benzoyl
 peroxide, 1459
 Pulwer, M.J. see Padwa, A. 983
 Purcell, N. see Elliott, J.D. 965
 Purcell, T.M. see Fray, G.I. 2607
 Purohit, P.C. see Sonawane, H.R.
 3025, 3917
 Pyne, S.G. see Corey, E.J. 2821,
 3291, 4883
 Quader, A. see Claesson, A. 1297
 Quader, A. see Sahlberg, C. 5137
 Quast, H. see Dunkin, I.R. 3887
 Quast, H. and Görlich, Y. Synthesis
 of some 3,7-dicyano-1,5-dimethyl-
 semibullvalenes, 5591
 Quast, H., Görlich, Y., Christ, J.,
 Peters, E.-M., Peters, K., von
 Schnering, H.G., Jackman, L.M.,
 Ibar, G. and Freyer, A.J. Crystal
 and molecular structure and the
 cope activation barriers of some
 dicyano-1,5-dimethylsemibull-
 valenes, 5595
 Quin, L.D. see Caster, K.C. 5831
 Quiniou, H. see Tea-Gokou, C. 3713
 Quinn, P. see Harrison, D.M. 831
 Quirke, J.M.E. see Houghton, J.D.
 5703
 Rabaraon, A. see Baassou, S. 761
 Radüchel, B. An approach to the
 synthesis of 5-azaprostacyclin,
 3229
 Radunz, H.E. see Riefling, B.F. 5487
 Rafii, S. see González, A.G. 1075
 Raggan, J.W. see Hart, H. 4891
 Rahn, B.J. see Molander, G.A. 5449
 Raithby, P.R. see Gonzalez, A.G.
 3765
 Rajagopalan, K. see Selvaraj, S. 2509
 Rajappa, S., Screenivasan, R. and
 Rane, A.V. A novel synthesis of
 5-acylaminobenzimidazole 2-
 carbamates: Intramolecular regio-
 selective addition of quinone-
 imides, 3155
 Rajjarison, H.C., Roussel, C. and
 Berg, U. A DNMR study of iso-
 merica phenols obtained by ring-
 opening, ring-closeure of
 3-isopropyl-2,4,6-trimethyl-
 pyrylium salts: An approach to the
 regio-selectivity of the ring-
 closure, 2259

- Raju, N. see Corey, E.J. 5571
 Rakotonirina, R. see Metzner, P. 4203
 Ramadas, S.R., Chenchiah, P.C., Rao, J.A. and Kumaresan, S. Approaches to the synthesis of 12-thiasteroids: Synthesis of B-nor6,12-bisthaestra-1,3,5(10),8,14-pentaen-17-one, 5403
 Ramage, R., Owen, O.J.R. and Southwell, I.A. Synthesis of (+)-isoeremolactone, 4487
 Ramamurthy, V. see Row, T.N.G. 3263
 Ramanathan, H. see Marinovic, N.N. 1871
 Ramirez, J.S. see Barton, D.H.R. 2995
 Ramirez-Muñoz, M. see Julia, M. 1783
 Rampal, J.B. see Märkl, G. 4079
 Ranaivonjatovo, H. see Couret, C. 2769
 Ranaivonjatovo, H. see Escudie, J. 3625
 Rand, C.L. see Negishi, E. 3823
 Rane, A.V. see Rajappa, S. 3155
 Ranganathan, D. and Bamezai, S. A novel proline derived meso-ionic synthon, 1067
 Rao, A.V.R., Mehendale, A.R. and Reddy, K.B. An efficient and flexible approach for the synthesis of 4-demethoxy-daunomycinone and 4-demethoxy-11-deoxydaunomycinone, 1093
 Rao, A.V.R., Deshpande, V.H., Shastri, R.K., Tavale, S.S. and Dhaneshwar, N.N. Structures of aldanols A and B, two novel phenols from *Morus Alba* bark, 3013
 Rao, C.N.R. see Row, T.N.G. 3263
 Rao, D.N.R. and Symons, M.C.R. Radical cations of organic nitro-derivatives, 1293
 Rao, J.A. see Ramadas, S.R. 5403
 Rao, K.S. see Mehta, G. 809
 Rao, K.V. and Alvarez, F.M. Manassantins A/B and saucerneol: Novel biologically active lignoids from *Saururus cernuus*, 4947
 Rao, R.R. see Peltzer, A. 621
 Rao, U. and Balasubramanian, K.K. Claisen rearrangement of aryl propargyl ethers in poly(ethylene glycol)-a remarkable substituent and solvent effect, 5023
 Raphael, R.A. see Hughes, I. 1441
 Raphael, R.A. see Jackson, R.F.W. 2117
 Rasmussen, J.K. see Krebski, L.R. 4075
 Ratananukul, P. see McKervey, M.A. 117
 Raucher, S. and Lawrence, R.F. Preparation and Diels-Alder reaction of *N*-carbomethoxy-5-ethyl-1,2-dihydropyridine: An approach for the synthesis of catharanthine, 2927
 Ravelo, A.G. see González, A.G. 3033
 Rawal, V.H. and Cava, M.P. Synthesis of scillascillin, a naturally occurring benzocyclobutene, 5581
 Ray, T. see Pearson, A.J. 5827
 Raynal, S., Bergeret, W., Gautier, J.C. et Breque, A. Synthèse et structure des diacetyl-phosphinites alcalins, 1791
 Rayner, B. see Vasseur, J.J. 2753
 Read, R.W. see Spear, R.J. 1555
 Reay, S. see Boar, R.B. 617
 Rebek, J., Jr. and Tai, D.F. A new synthesis of lysergic acid, 859
 Reddy, K.B. see Rao, A.V.R. 1093
 Reed, J.N. and Snieckus, V. Ortho-amination of lithiated tertiary benzamides. Short route to poly-substituted anthranilamides, 3795
 Reese, C.B. see Christodoulou, C. 951
 Reese, P.B. see Hanson, J.R. 303, 3405
 Reetz, M.T. and Sauerwald, M. Stereoselective α -alkylation of ketones and esters using chromium tricarbonyl-complexed benzyl acetates, 2837
 Reeves, W.P. and McClusky, J.V. Comparison of unstirred, sonicated and stirred mixtures on the two-phase displacement of halide by thiocyanate ion, 1585
 Regen, S.L. see Kim, B. 689
 Regitz, M. see Hoffmann, K.-L. 5355
 Réglier, M. see Heumann, A. 1971
 Réglier, M. and Julia, S.A. Stereoselective conversion of lithiated benzylic or allylic 3-methyl-1(Z), 3-butadienyl sulfides into cis-disubstituted cyclopropane compounds, 2387
 Rehling, H. see Koller, W. 2131
 Reid, K. see Forrester, A.R. 5547
 Reid, S.T. and De Silva, D. Photocycloaddition of ethyl 2,3-dioxopyrrolidine-4-carboxylates to alkenes; the synthesis of ethyl 2,3-dioxohexahydroazepine-6-carboxylates, 1949
 Reid, S.T., Thompson, J.K. and Mushambi, C.F. A novel photo-reaction of 3-nitro-2-phenyl-2H-chromene in methanol, 2209
 Reina, M. see Gonzalez, A.G. 3765
 Reinoudt, D.N. see Pennings, M.L.M. 825
 Reinoudt, D.N. see Verboom, W. 3923
 Reissig, H.-U. and Böhm, I. Low temperature equilibration of cyclopropanes by Lewis acid catalysis, 715
 Reitz, A.B. see Maryanoff, B.E. 2477
 Remuson, R. see Trost, B.M. 1129
 Remy, D.E. A versatile synthesis of tetrabenzo-porphyrins, 1451
 Renaldo, A.F. see Overman, L.E. 2235, 3757
 Renard, M. and Hevesi, L. Generation of 1-seleon-allyl cations and their reactions with furan and pyrrole, 3911
 Renoux, B. see Gesson, J.P. 2757, 2761
 Renzi, G. see De Luca, G. 821
 Renzi, G. see Giacomello, P. 4157
 Repic, O. and Long, D.J. On the stereochemistry of the reduction of tetrahydrocarbazoles and 2,3-dialkylindoles containing tertiary amines, 1115
 Reuschling, D. see Koller, W. 2131
 Reutenerau, H. see Kaouadji, M. 4677
 Reutrakul, V. and Herunsee, K. Dichloromethyl phenyl sulfoxide: Synthetic applications, 527
 Reutrakul, V. and Poochaivatananon, P. Eliminative deoxygenation of substituted- α -halosulfoxides, 531
 Reutrakul, V. and Poochaivatananon, P. A highly convenient procedure for the hydrolysis of terminal phenyl vinyl sulfides, 535
 Reutrakul, V. and Rukachaisirikul, V. Fluoromethyl phenyl sulfoxide: Highly convenient syntheses of vinyl fluorides and fluoromethylketones, 725
 Revel, M. see Meriem, A. 1975
 Revial, G., Blanchard, M. and d'Angelo, J. Alkoxy-5 pentadieenoates: Etude de leur réactivité dans la réaction de Diels et Alder sous haute pression, 899
 Revial, G. see d'Angelo, J. 2103, 5869
 Rey, M. see Jackson, D.A. 4817
 Rhodes, Y.E. see Takakis, I.M. 4959
 Riba, M. see Camps, F. 3387
 Ricci, A. see Taddei, M. 2311
 Ricci, P. see Bouillant, M.-L. 51
 Rich, D.H. and Dhaon, M.K. Synthesis of a triprotected DL- β -carboxy-aspartic acid (Asa) derivative suitable for the synthesis of Asa-containing peptides, 1671
 Rich, D.H. see Holladay, M.W. 4401

- Rich, D.H. and Gardner, J.H. Synthesis of the cytostatic cyclic tetrapeptide, chlamydocin, 5305
- Rich, D.H. see Kawai, M. 5309
- Richards, I.C. see Pearson, A.J. 2465, 5827
- Riche, C. see D'Angelo, J. 1489
- Riche, C. see Beauhaire, J. 4417
- Richter, A.M. und Fanghänel, E. Donatorsubstituierte Polyacetylene und Analoga II. Notiz über die Synthese einfacher Derivate des neuen heterobicyclischen Grundkörpers 3H,6H-1,2-Dithiolo[4,3-c](1,2)-dithiol, 3577
- Richter, W.J. see Binger, P. 3599
- Rideout, D. see Breslow, R. 1901
- Riefling, B.G. and Radunz, H.E. An eight steps synthesis of an orally active antihypertensive carba-prostacyclin analog, 5487
- Riehl, J.-J. see Gillard, F. 587
- Rieke, R.D. see Inaba, S. 2451
- Riera, J. see Ballester, M. 2121
- Rietschel, E.Th. see Imoto, M. 4017
- Riffaud, M.-H. see Castellan, A. 5215
- Rigby, J.H., Kotnis, A. and Kramer, J. 1,3-benzodithiolium ion mediated annulations, 2939
- Rihs, G. see Fessner, W.-D. 5857
- Rinehart, K.L., Jr., Harbour, G.C., Graves, M.D. and Cheng, M.T. Synthesis of hexahydriopolyandrocarpine (a revised structure), 1593
- Ringer, E. see Braun, M. 1233
- Risch, N. and Brockmann, H. Chlorophyll B. Totalzuordnung des ¹³C-NMR-Spektrums, 173
- Risitano, F., Grassi, G. and Foti, F. An efficient preparation of 4-arylmethylisoxazol-5-ones by selective reduction of the 4-arylmethyleneisoxazol-5-ones, 5893
- Ritter, A.R. see Spessard, G.O. 655
- Rivera, P. see González, A.G. 4143
- Roberts, B.P. Comments on the structures of phosphoranyl radicals, 3377
- Roberts, B.P. see Cook, M.D. 3761
- Roberts, B.P. see Bamford, A.F. 3779
- Roberts, J.S. see Anderson, R.C. 3267
- Roberts, R.A. see Bulman-Page, P.C. 3555
- Robertson, G.M. see Pattenden, G. 4617
- Robev, S.K. New synthesis of quinazoline and benzoquinazoline derivatives, 4351
- Robin, J.-P. see Taafrout, M. 197, 2983, 3237
- Robins, M.J. see Hansske, F. 1589
- Robinson, R.P. see Wasserman, H.H. 3669
- Rocca, J.R., Tumlinson, J.H., Glancey, B.M. and Lofgren, C.S. The Queen recognition pheromone of *solenopsis invicta*, preparation of (E)-6-(1-pentenyl)-2H-pyran-2-one, 1889
- Rocca, J.R., Tumlinson, J.H., Glancey, B.M. and Lofgren, C.S. Synthesis and stereochemistry of tetrahydro-3, 5-dimethyl-6-(1-methylbutyl)-2H-pyran-2-one, a component of the queen recognition pheromone of *Solenopsis invicta*, 1893
- Rodriguez, J. see Bertrand, M. 1967
- Rodriguez, J., Dulcere, J.P. et Bertrand, M. La cohalogénéation des oléfins dans l'oxyde d'éthylène: Nouvel accès aux éthers vinylallyliques, 4423
- Rodriguez, M.L. see González, A.G. 3033, 4143
- Roeterdink, F., Scheeren, J.W. and Laarhoven, W.H. Controlled chemiluminescence during the oxidation of tetraaryl- $\Delta^{2,2}$ -Bilimidazolidines by triplet oxygen in the presence of fluorescers, 2307
- Rokach, J. see Zamboni, R. 331, 999, 4899
- Rokach, J., Adams, J. and Perry, R. A new general method for the synthesis of lipoxygenase products: Preparation of \pm 5-HETE, 5185
- Rolando, C. see Jacob, L. 4327
- Rondan, N.G. see Mueller, P.H. 485
- Ronzini, L. see Fiandanese, V. 3677
- Rood, I.D.C. and Klumpp, G.W. Reaction of tetracyclo [3.3.0.O².O³.6]oct-7-ene with HCL and DCL: Successive formation of edge- and corner-protonated cyclopropanes, 4599
- Rösch, L. see Altnau, G. 45
- Rosenblum, M. see Chang, T.C.T. 695
- Rosenmund, P. und Casutt, M. Eine neue Totalsynthese von (\pm) Deplanchein, 1771
- Rosenthal, A., Cech, D., Veiko, V.P., Orezkaja, T.S., Kuprijanova, E.A. und Shabrova, Z.A. Triestefestphasensynthese von Oligodesoxyridonucleotiden an Polystyren – Teflon Tragern, 1691
- Rosenthal, R.J. see Padwa, A. 983
- Rosenthal, R.J. see Adam, W. 5727
- Ross, B.C. see Cooke, M.D. 3373
- Ross, R.J. see Bridges, A.J. 4797
- Ross, W.J. see Baker, S.R. 4469
- Rossier, J.-C. see Jefford, C.W. 181
- Roth, H.D., Schilling, M.L.M. Mukai, T. and Miyashi, T. The electron transfer induced interconversion of cyclobutanes and diolefins, 5815
- Roth, K. see Becker, D. 5505
- Rouessac, F. see Taafrout, M. 197, 2983, 3237
- Rouessac, F., Zamarlik, H. et Gnonlonfoun, N. Synthèse du (\pm) loliolide par polycyclisation de l'acide homogéraniique, 2247
- Rouessac, F. see Gosselin, P. 5515
- Rougeot, E., Moskowitz, H. et Miocque, M. Méthode simple de synthèse de la 6H-[1]benzopyrano[4,3-b]quinoléine, 2379
- Rouleau, F., Plusquellec, D. et Brown, E. Chimie des sucres sans groupements protecteurs: Estérification régiosélective de l'hydroxyle anomère du lactose libre, 719
- Rouleau, F., Plusquellec, D. et Brown, E. Une méthode simple et rapide de préparation des anhydrides d'acides carboxyliques à partir de leurs chlorures d'acides, avec catalyse par transfert de phase, 4195
- Roush, W.R., Adam, M.A. and Peseckis, S.M. Regioselectivity of the reactions of trialkylaluminium reagents with 2,3-epoxyalcohols: Application to the synthesis of α -chiral aldehydes, 1377
- Roush, W.R., Harris, D.J. and Lesur, B.M. Studies on the synthesis of olivin: Diastereoselective synthesis of a functionalized D-fucose derivative, 2227
- Roush, W.R. and Lesur, B.M. Stereochemistry of vinyl cuprate additions to carbohydrate-derived enones and α,β -unsaturated esters, 2231
- Roush, W.R. and Spada, A.P. Synthesis of trichoverrol B, 3693
- Rousseau, G. and Sloughui, N. An improved synthesis of substituted cyclopropanone acetals and hemiacetals, 1251
- Rousseau, H. see Beugelmans, R. 1787
- Roussel, C. see Rajoharison, H.G. 2259
- Rousset, C. see Picq, D. 5619
- Rousset, C. see Haufe, G. 5877
- Roux, D.G. see Steynberg, J.P. 4147

- Roux, D.G. see Jacobs, E. 4627
 Rovirosa, J. see Martin, A.S. 4063
 Row, T.N.G., Swamy, H.R., Acharya, K.R., Ramamurthy, V., Venkatesan, K. and Rao, C.N.R. Reversible photodimerization of phenylbutadienes in the solid state, 3263
 Row, T.N.G. see Shitole, H.R. 2739
 Rowe, C.D. see Smith, P.A.S. 5169
 Rowe, D.J. see Barton, J.W. 299
 Roy, S. see Ali, E. 2497
 Rozhkov, I.N. see Bardin, V.V. 4875
 Ruano, J.Z. see González, A.G. 4143
 Rüchardt, C. see Birkhofer, H. 185
 Rüchardt, C. see Beckhaus, H.-D. 3307
 Rüchardt, C. see Meier, M. 4671
 Rücker, C. and Prinzbach, H. *cis*-Tris- σ -homobenzenes from *cis*-benzenetrioxide, 4099
 Rueffer, M., Ekundayo, O., Nagakura, N. and Zenk, M.H. Biosynthesis of the proto-berberine alkaloid jatrorrhizine, 2643
 Ruel, O., Guittet, E. et Julia, S. Etude de l'addition nucléophile de quelques thiols sur les alcyn-1-ols-3; additions régio- et stéréosélective du méthyl-2 propane-thiol-2, 61
 Ruel, O. see Ekogha, C.B.B. 4825
 Ruel, O., Ekogha, C.B.B. and Julia, S.A. Reactivity of the 1-t-butylthio-3-methoxy-1-alkenes towards metalating agents. II. Allylic deprotonation of the E-isomers and of the Z-propenyl derivative, 4829
 Ruess, K.-P. see Six, L. 1229
 Rüger, W. see Krebs, A. 4821
 Rukhaisirikul, V. see Reutrakul, V. 725
 Rümmele, O. see Martin, H.-D. 5469
 Runsink, J. see Koch, H. 3217
 Ruppert, I. see Volbach, W. 5509
 Russell, M.A. see Gilmore, C.J. 3269
 Russo, C. see Barbarella, G. 1621
 Russo, C. see Forchiassini, M. 2909
 Rutledge, P.S. see Cambie, R.C. 2319
 Rycroft, D.S. see Huneck, S. 115, 3787
 Rykowski, A. see Makosza, M. 3277
 Rykowski, A. see Goliński, J. 3279
 Sáa, C. see Castedo, L. 2107
 Sáa, J.M. see Castedo, L. 2107, 5419
 Sáa, J.M. see Boente, J.M. 2029, 2295, 2303, 4481
 Sabio, M.L. see Disch, R.L. 1863
 Saburi, M. see Ishii, Y. 2677
 Saccomano, N.A. see Stork, G. 465
 Sadavongvivad, C. see Kodpinid, M. 2019
 Saebø, J. see Gramstad, T. 3919
 Saegusa, T. see Ito, Y. 2881
 Safdar, A. see Davidson, R.S. 5907
 Sahlberg, C. see Claesson, A. 1297
 Sahlberg, C., Quader, A. and Claesson, A. Synthesis of conjugated dienes by Nickel-catalyzed reactions of 1,3-alkadien-2-yl phosphates with Grignard reagents, 5137
 Saigo, K., Kasahara, A., Ogawa, S. and Nohira, H. Application of *erythro*-2-methoxy-1,2-diphenylethylamine to enantioselective alkylation of cyclohexanone, 511
 Saigo, K., Sekimoto, K., Yonezawa, N. and Hasegawa, M. Optical resolution of *anti* head-to-head coumarin dimer and determination of its absolute configuration based on CD spectral data, 5381
 Saiki, A. see Takeda, K. 4569
 Saimoto, H., Houge, C., Hesbain-Frisque, A.-M., Mockel, A. and Ghosez, L. Nonstereospecificity in the cycloadditions of ketene-iminium salts to olefins. Evidence for a stepwise mechanism, 2251
 Saindane, M. see Liotta, D. 2473
 Saindane, M. see Goldsmith, D. 5935
 Sainsbury, M. see Campbell, M.M. 4745
 Saito, H., Fujise, Y. and Itô, S. [8](3,7)tropolonophane, 3879
 Saito, I., Nagata, R., Yuba, K. and Matsuura, T. Synthesis of α -silyloxyhydroperoxides from the reaction of silyl enol ethers and hydrogen peroxide, 1737
 Saito, I., Shimozono, K. and Matsuura, T. Trapping of intermediates with molecular oxygen in cyano enone-olefin photocycloaddition, 2195
 Saito, I., Nagata, R., Yuba, K. and Matsuura, T. Synthesis of α , ω -dicarboxylic acids and unsaturated carboxylic acids from silyl enol ethers, 4439
 Saito, T., Shibahara, N. and Motoki, S. Studies on α , β -unsaturated thione S-imides and S-oxides: The synthesis of β -aminovinylaryl-thione S-imides and S-oxides from the thiones, 4435
 Saito, Y. see Niwa, H. 5371
 Sakaguchi, S. see Matsuno, T. 911
 Sakai, A. see Nakayama, J. 3729
 Sakai, K. see Ichikawa, T. 3337
 Sakai, S. see Yamanaka, E. 3861
 Sakamaki, T. see Matsunaga, H. 3009
 Sakamoto, M. see Aoyama, H. 1169
 Sakamura, S. see Ichihara, A. 5373
 Sakata, N. see Nomoto, S. 3357
 Sakata, Y. see Higuchi, H. 2593
 Sakata, Y. see Doyama, K. 5253
 Sakdarat, S. see Williams, D.R. 3965
 Sako, M. see Maki, Y. 799
 Saksena, A.K. and Mangiaracina, P. Recent studies on veratrum alkaloids: A new reaction of sodium triacetoxypyrohydride [NaBH(OAc)₃], 273
 Sakuragi, H. see Arai, T. 2873
 Sakurai, H. see Hosomi, A. 4727
 Sakurai, S. see Hanaoka, M. 3845
 Sakurai, T. see Okuyama, E. 3113
 Sakuta, K. see Nishiyama, H. 4021
 Salazar, J.A. see Francisco, C.G. 3907
 Salemink, C.A. see Novak, J. 101
 Salvino, J.M. see Caine, D. 2083
 Samoshin, V.V. see Zefirov, N.S. 5133
 Sánchez, I.H., Soria, J.J., Larraza, M.I. and Flores, H.J. Sceletium (Aizoaceae) alkaloids: Total synthesis of racemic mesembranone, joubertinamine and epijoubertinamine, 551
 Sanchez, M. see Martin, G.J. 4989
 Sand, P. see Bergman, J. 3665
 Sandri, E. see Cerè, V. 839
 Sanduja, R. see D-Novi, M. 855
 Sankawa, U. see Xin-Sheng, Y. 2407, 3247
 Sano, H. see Ōmura, S. 3643
 Santelli, M. see Jellal, A. 1395, 2847
 Santikarn, S. see Brereton, R.G. 5775
 Santlestan, F., Mancilla, T., Klaébé, A. et Contreras, R. Conséquences stéréochimiques de la fixation de BH₃ sur la paire libre de l'azote des éphédries: échange isotopique NH/ND stéréospécifique, 759
 Sarau, H.M. see Perchonock, C.D. 2457
 Sard, H. see Danheiser, R.L. 23
 Sarda, P. see Elphimoff-Felkin, I. 4425
 Sardina, F.J., Mourino, A. and Castedo, L. Studies on the synthesis of side chain hydroxylated metabolites of Vitamin D. Stereo-specific syntheses of 25-hydroxy-7,8-dihydroergosterol and its C-24 epimer¹⁶, 447
 Sarma, A.S. and Gayen, A.K. Synthetic and stereochemical studies related to *trans*-clerodane diterpenoids and congeners, 3385
 Sasaki, K. see Kunai, A. 4443
 Sasatani, S. see Ishida, Y. 3255
 Sasatani, S., Miyazaki, T., Maruoka,

- K. and Yamamoto, H. Diisobutyl-aluminium hydride, a novel reagent for the reduction of oximes, 4711
- Sasson, Y. see Blum, J. 4139
- Satake, K. see Kumagai, T. 2275
- Sato, A. and Fenical, W. Gramine-derived bromo-alkaloids from the marine bryozoan *Zoobotryon verticillatum*, 481
- Sato, F., Watanabe, H., Tanaka, Y., Yamaji, T. and Sato, M. Stereoselective synthesis of vinylsilanes from alkynylsilanes via hydromagnesiation. Application to a synthesis of 7(E)-dodecenyl acetate and dihydrojasmine, 1041
- Sato, F. and Katsuno, H. A simple route to 3-furanyltrimethylsilane via hydromagnesiation, 1809
- Sato, F. see Fujisawa, T. 5745
- Sato, K. see Matsuda, H. 789
- Sato, K. see Minowa, N. 2391
- Sato, M. see Sato, F. 1041
- Sato, M. see Okuda, Y. 2015
- Sato, M. see Oda, H. 2877
- Sato, S. see Tsuboi, S. 2393
- Sato, S. see Matsuda, I. 2787
- Sato, S., Matsuda, I. and Izumi, Y. A facile synthesis of α -trimethylsilyl ketones and their regio-specific rearrangement to trimethylsilyl enol ethers, 3855
- Sato, T., Tajima, K. and Fujisawa, T. Diastereoselective synthesis of erythro- and threo-2-hydroxy-3-methyl-4-pentenoic acids by the ester enolate Claisen rearrangement of 2-but-enyl 2-hydroxyacetate, 729
- Sato, T. see Fujisawa, T. 1543
- Sato, T., Gotoh, Y., Wakabayashi, Y. and Fujisawa, T. Asymmetric reduction of α,β -unsaturated ketones with chiral hydride reagents prepared from lithium aluminium hydride and (S)-4-anilino- and (S)-4-(2,6-xylidino)-3-methylamono-1-butanol, 4123
- Sato, T. see Ishitsuka, M. 5117
- Sato, Y. see Maruyama, T. 2571
- Satoh, Y. see Hara, S. 735
- Sauer, G. see Neef, G. 5205
- Sauer, J. see Balcar, J. 1481
- Sauer, J. see Schuster, H. 1485, 4087
- Sauer, J. see Mayer, H. 4091, 4095
- Sauerwald, M. see Reetz, M.T. 2837
- Saulnier, M.G. and Gribble, G.W. Synthesis of 17-oxoellipticine, 3831
- Saulnier, M.G. and Gribble, G.W. 4-(phenylsulfonyl)-4H-furo[3,4-b]indole – a stable synthetic analogue of indole-2, 3-quinodimethane, 5435
- Sauter, F. see Daly, C.M. 5147
- Sauvage, J.P. see Dietrich-Buchecker, C.O. 5091, 5095
- Sauvetre, R. see Martin, S. 5615
- Savina, T.I. see Yagupolskii, Y.L. 87
- Savino, T.G., Chenard, L.K. and Swenton, J.S. Mechanistic aspects of photocycloaddition chemistry. An interesting relationship between substituent effects on 1,4-biradical closure-to-cleavage ratios and photocycloaddition regioselectivity, 4055
- Sawada, I. see Takeda, K. 4451
- Sawahata, M. see Hiyama, T. 4113
- Sawai, K. see Okuno, T. 5653
- Sawamura, K. see Okuno, T. 5653
- Saxena, S., Jain, P.K., Makrandi, J.K. and Grover, S.K. Facile oxidation of o-hydroxyphenyl benzyl ketones to unsymmetrical benzils with dimethyl sulphoxide/potassium hydroxide, 3401
- Scaiano, J.C. see Marcus, R.L. 3955
- Scalfi, C. see Seliger, H. 4963
- Schaap, A.P., Prasad, G. and Gagnon, S.D. Formation of a 1,2,4-dioxa-zolidine by electron-transfer photooxygenation of 1-butyl-2,3-diphenylaziridine, 3047
- Schaetzer, J. see Beckhaus, H.-D. 3307
- Schafter, A.I. see Corey, E.J. 3291
- Schäfer, H.-J. see Metz, P. 1959
- Schakel, M. see Klumpp, G.W. 4595
- Schal, H.-P. see Prinzbach, H. 2147
- Schamp, N. see De Kimpe, N. 2885
- Scharf, H.-D. see Koch, H. 3217
- Scharfman, R. see Baker, A.D. 2957
- Schauder, J.R., Denis, J.N. and Krief, A. Reduction of thiiranes to alkenes and alkanes, 1657
- Schaumburg, K. see Christensen, J.A. 5151
- Scheeren, H.W. see Aben, R.W.M. 4613
- Scheeren, J.W. see Roeterdink, F. 2307
- Scheffer, J.R. see Ariel, S. 4333
- Scheinmann, F. see Nixon, N.S. 597
- Scheinmann, F. see Ackroyd, J. 5139
- Schelbel, J. see Gompper, R. 3563
- Schell, F.M. and Smith, A.M. N-Chloramine rearrangements. The use of cyclobutylamine as a pyrrolidine precursor, 1883
- Schenk, K.-H. see Gotthardt, H. 4669
- Scheuer, P.J. see Bonini, C. 277
- Schieber, J.E. see Chwang, T.L. 3183
- Schierhorn, A. see Adam, G. 351
- Schilling, M.L.M. see Roth, H.D. 5815
- Schlecht, M.F. see Bunce, R.A. 4943
- Schleyer, P.v.R. see Wilhelm, D. 3985
- Schlüter, A.-D., Belzner, J., Hewang, U. and Szeimies, G. Formation of 1,2-dihydrobenzene from 1-chlorobenzvalence by strong bases: Evidence for the rearrangement of 1,6-dehydrobenzvalene to benzyne, 891
- Schmid, G.H. and Garratt, D.G. A comparison of transition states in nucleophilic displacement by alkenes at bivalent sulfur and selenium, 5299
- Schmidpeter, A. see Karaghiosoff, K. 2137
- Schmidt, G. see Corey, E.J. 3169
- Schmidt, R.R. and Wagner, A. Synthesis of a uracinine derivative via hetero-Diels-Alder reaction, 4661
- Schmidt, U., Beuttler, T., Lieberknecht, A. und Griesser, H. Aminosäuren und Peptide – XLII. Synthese von Chlamydocin + *epi*-Chlamydocin, 3573
- Schmieder, R. see Helmchen, G. 1235
- Schmitz, C. see Badet, B. 4331
- Shimizu, I. see Tsuji, J. 5635, 5639
- Schneider, D.F. see Labuschagne, A.J.H. 743
- Schneider, H.-J. see Agrawal, P.K. 177
- Schneider, J.A., Yoshihara, K., Nakanishi, K. and Kato, N. Typhasterol (2-deoxycasta-sterone): A new plant growth regulator from cat-tail pollen, 3859
- Schneider, S. see Köst, H.-P. 3975
- Schohe, R. see Jäger, V. 5501
- Scholler, D. see Pete, J.-P. 5887
- Schönauer, K. and Zbiral, E. Reactions with organophosphorus compounds, 50. Trimethylsilyl-ethoxymethylene triphenylphosphorane, a novel reagent for the homologation of carbonyl compounds, 573
- Schormann, N. see Fitjer, L. 5351
- Schou, H. see Christensen, J.A. 5151
- Schreiber, S.L. and Liew, W.-F. Criegee rearrangement of α -alkoxy hydroperoxides. A synthesis of esters and lactones that complements the Baeyer-Villiger oxidation of ketones, 2363
- Schreiber, S.L. and Sommer, T.J. Total synthesis of (\pm)-talaromycin B, 4781
- Schröck, W. see Kinast, G. 283
- Schröder, F.R. and Cramer, F. A new method for the preparation of N-(Nucleosidyl)- α -amino acids using trioctylmethylammonium salts of

- α -amino acids, 3571
- Schuda, P.F., Cichowicz, M.B. and Heimann, M.R. A facile method for the oxidative removal of benzyl ethers: The oxidation of benzyl ethers to benzoates by ruthenium tetraoxide, 3829
- Schuda, P.F. and Heimann, M.R. The synthesis of dl-coriolin, 4267
- Schulman, J.M. see Sabio, M.L. 1863
- Schultz, A.G. and Dittami, J.P. Synthesis of 6-alkyl-y-methoxy-carbonyl-2,4-cyclohexadien-1-ones and cyclohexadienone ketals, 1369
- Schultz, M. see Paulsen, H. 1759
- Schultz, B.S. and Pfleiderer, W. Synthesis of O⁴-p-nitrophenylethyl thymidine and uridine derivatives, 3587
- Schuster, D.J. see Wang, L. 2627
- Schuster, H., Sichert, H. und Sauer, J. Zum Mechanismus der Semibullvalen-Bildung aus 1,2,4,5-Tetrazinen und bifunktionellen Cyclopropenen, 1485
- Schuster, H. und Sauer, J. Intramolekulare (4+2)-cycloadditionen mit inversem Elektronenbedarf, 4087
- Schwager, L. see Tamariz, J. 1497
- Schwager, L. see Mahaim, C. 3603
- Schwarz, M., Klun, J.A., Leonhardt, B.A. and Johnson, D.T. (E, Z)-2, 13-octadecadien-1-ol acetate. A new pheromone structure for Sesiid moths, 1007
- Schwinging, J.E. see Hartman, G.D. 1011
- Schwichtenberg, E. see Martin, H.-D. 5469
- Sciavocelli, O. see Cutolo, M. 4603
- Scofield, T.C.V. see Pinto, A.C. 5043
- Scolastico, C. see Guanti, G. 817
- Scopes, D.I.C. see Iddon, B. 413
- Scott, F., Mafunda, B.G., Normant, J.F. and Alexakis, A. Spiroannelation via gem-dihalocyclopropane substrates and a cyclocuprate species, 5767
- Scott, A.I. see Chung, S.K. 2941
- Scott, W.J. see McMurry, J.E. 979
- Scotton, M. see Adembri, G. 5399
- Screenivasan, R. see Rajappa, S. 3155
- Screttas, C.G., Micha-Screttas, M. and Cazianis, C.T. The benzilic ester rearrangement, evidence for a set pathway in the benzilic ester and/or acid rearrangement, 3287
- Scriba, G. see Blaschke, G. 5855
- Scrimin, P., D'Angeli, F., Veronese, A.C. and Baioni, V. Cyclocondensations of DMF with α -haloamides, an aziridinone, or a Δ^2 -1,2,3-
- triazolin-5-one, 4473
- Scrimin, P. see Fornasier, R. 5541
- Scripko, J. see Kozikowski, A.P. 2051
- Sebold, U. see Eicher, T. 2977
- Secci, M. see Bonsignore, L. 5013
- Seconi, G. see Taddei, M. 2311
- Sedee, A.G.J. and van Henegouwen, G.M.J.B. A synthesis for P-quinol compounds from phenols fused with other saturated rings, 5779
- Sedrati, M. see Franck-Neumann, M. 1387, 1391
- Seebach, D. and Aebei, J.D. α -Alkylation of threonine, 3311
- Seebach, D. and Weber, T. α -Alkylation of a cysteine derivative without the use of a chiral auxiliary, 3315
- Segall, Y. see Kimmel, E.C. 2819
- Seghetti, E. see Toscano, L. 5527
- Seiferling, B. see Dunkin, I.R. 3887
- Seifert, K., Härtling, S. and John, S. Regiocontrolled electrochemical cyanation of ergolines, 2841
- Seitz, B. see Würthwein, E.-U. 581
- Sekane, S., Maruoka, K. and Yamamoto, H. Olefinic cyclization promoted by Beckmann rearrangement of oxime sulfonate synthesis of *dl*-muscone, 943
- Seki, Y. see Fujio, M. 2177
- Sekiguchi, A. and Ando, W. Thermal generation of bis(trimethylsilyl) methylsilylene. Rearrangement of the silylene to a silaethylene via 1,2-shift of trimethylsilyl group, 2791
- Sekiguchi, A. see Ando, W. 4033, 4245
- Sekimoto, K. see Saigo, K. 5381
- Sekine, M. see Kamimura, T. 2775
- Sekine, M. and Hata, T. Synthesis and properties of thymidine derivatives bearing the (PhS)₂P(O) and (PhS)(PhNH)P(O) groups, 5741
- Sekiya, M. see Ikeda, K. 913, 4707
- Self, R. see Cimino, G. 3029
- Seliger, H., Scalfi, C. and Eisenbeiss, F. An improved syringe technique for the preparation of oligonucleotides of defined sequence, 4963
- Selim, A. see Helmchen, G. 3213
- Selvaraj, S., Babu, K.G.S., Balasubramanian, K.K. and Rajagopalan, K. Studies in Claisen rearrangements a novel oxidative rearrangement of 3-aryloxymethyl-(4H)-benzopyrans, 2509
- Selwe, C. see Gartiser, T. 1609
- Semenovsky, A.V. see Grigorieva, N.Y. 5531
- Sengüler, N. see Gompper, R. 3567
- Seoane, E. see Arnó, M. 1741
- Serita, K. see Takahashi, S. 499
- Servi, S. Synthesis of the two enantio-meric forms of 5-hexadecanolide proposed pheromone component from *Vespa orientalis*, 2023
- Servi, S. see Fuganti, C. 3753, 5285
- Sessions, R.B. see Croker, S.J. 1559
- Sethi, S.P. see Mander, L.N. 5425
- Seto, H., Otake, N., Koyama, M., Ogino, H., Kodama, Y., Nishizawa, N., Tsuruoka, T. and Inouye, S. The structure of a novel nucleoside antibiotic, dapiramicin A, 495
- Seto, H. see Takahashi, S. 499
- Seto, H. see Nozoe, S. 1731, 1735
- Seto, H., Koyama, M., Ogino, H., Tsuruoka, T., Inouye, S. and Otake, N. The structures of novel nucleoside antibiotics, mihamycin A and mihamycin B, 1805
- Seto, H. see Xin-Sheng, Y. 2407, 3247
- Seya, K. see Takano, S. 4233
- Seyforth, D., Weinstein, R.M., Wang, W.-L. and Hui, R.C. High yield acyl anion transfer reactions: Nucleophilic acylation of aldehydes, 4907
- Shabrova, Z.A. see Rosenthal, A. 1691
- Shaker-Jomaa, R.M.A. see Boar, R.B. 617
- Shamim, M.T. see Wheeler, J.W. 5811
- Shamma, M. see Fajardo, V. 155
- Shamma, M. see Allais, D.P. 2445
- Shankaranarayanan, R. see Chung, S.K. 2941
- Sharma, R.P. see Barua, N.C. 1189
- Sharma, R.P. see Barua, P. 5801
- Sharma, R.P. see Chowdhury, P.K. 3383, 4485, 5429
- Shastri, R.K. see Rao, A.V.R. 3013
- Shea, K.J. and Gilman, J.W. Lewis acid catalyzed intramolecular Diels-Alder cycloadditions. A mild method for the synthesis of bicyclo[n.3.1] bridgehead alkenes, 657
- Shea, K.J. and Pham, P.Q. Reactions of organocupper reagents derived from chloroprene. Conjugate addition and nucleophilic substitution, 1003
- Shea, K.J., Greeley, A.C., Nguyen, S., Beauchamp, P.D. and Wise, S. Synthesis of meso bridgehead dienes [3.3] sigmatropic rearrangements of 1,n-divinyl bicyclo n, m, o alkanes, 4173
- Shechter, H. see Hsiao, C.-N. 2371
- Shechter, H. see Engler, T.A. 4645

- Sheldon, B.G.** see White, J.D. 4539
Sheldrick, G.M. see González, A.G. 959
Sheldrick, G.M. see Fitjer, L. 5351
Shepherd, T. see Glidewell, C. 3151
Sherrington, D.C. see Heffernan, J.G. 1661
Sheves, M. and Baasov, T. A blue shift of protonated retinal Schiff base. A model study for bacteriorhodopsin, 1745
Shiba, T. see Inage, M. 2011
Shiba, T. see Imoto, M. 4017
Shibahara, N. see Saito, T. 4435
Shibasaki, M., Torisawa, Y. and Ikegami, S. Synthesis of 9(0)-methano- $\Delta^6(^{\pm}\alpha)$ -PGI₁: The highly potent carbon analog of prostacyclin, 3493
Shibasaki, M., Fukasawa, H. and Ikegami, S. Regiocontrolled conversion of α,β -unsaturated ketones to olefins via allylsilanes: Synthesis of *dl*-9(0)-methano- $\Delta^6(^{\pm}\alpha)$ -PGI₁, 3497
Shibata, M. see Yoshida, Z. 4585
Shiyama, K. see Yoshihiji, M. 4227
Shibuya, M. Synthetic studies on garzinophilin A. Synthesis of the optically active C.1-C.18 segment, 1175
Shibuya, S. see Kano, S. 1813
Shields, C.J. see Dunkin, I.R. 3887
Shigehisa, T. see Wada, M. 1711, 1715
Shiiya, K. see Ohnuma, T. 4249
Shima, I. see Yoshihiji, M. 933
Shimada, J. see Nakamura, E. 3341
Shimada, N. see Yagisawa, N. 931
Shimamoto, T. see Inage, M. 2011
Shimizu, H. see Kataoka, T. 75
Shimizu, H. see Osuka, A. 2599
Shimizu, H. see Hori, M. 3733
Shimizu, H. see Onogi, K. 4337
Shimizu, I., Minami, I. and Tsuji, J. Palladium-catalyzed synthesis of α,β -unsaturated ketones from ketones via allyl enol carbonates, 1797
Shimizu, I., Ohashi, Y. and Tsuji, J. A new one-pot method for α,α -dialylation of ketones based on the palladium-catalyzed reaction of allylic carbonates and allyl β -keto carboxylates under neutral conditions, 3865
Shimizu, I. see Tsuji, J. 1793, 4713
Shimizu, M. see Kashima, C. 209
Shimoji, K. see Corey, E.J. 169, 3169
Shimozono, K. see Saito, I. 2195
Shin, C., Yamada, T. and Yonezawa, Y. Facile and useful one-pot synthesis of dehydrooligopeptides using Δ NCA, 2175
Shiner, C.S., Fisher, A.M. and Yacoby, F. Intermediacy of α -chloro amides in the basic hydrolysis of α -chloro nitriles to ketones, 5687
Shing, T.K.M. see Fleet, G.W.J. 3657, 3661
Shinkai, H. see Shinkai, S. 1539
Shinkai, S., Ishikawa, Y., Shinkai, H., Tsuno, T. and Manabe, O. A crown ether flavin mimic, 1539
Shinkai, S., Yamada, M., Sone, T. and Manabe, O. Template synthesis from starch as an approach to tailor-made "cyclodextrin", 3501
Shinkai, Y. see Harayama, T. 5241
Shiojima, K., Arai, Y., Masuda, K., Kamada, T. and Ageta, H. Fern constituents; Polypodatetraenes, novel bicyclic triterpenoids, isolated from polypodiaceous and aspidiaceous plants, 5733
Shiokawa, T. see Fukazawa, Y. 2199
Shiokawa, T. see Fujise, Y. 4261
Shiozaki, M. see Yanagisawa, H. 1037
Shirahama, H. see Konno, K. 939
Shirahama, H., Arora, G.S., Osawa, E. and Matsumoto, T. (*Z, E, E*)-humulene. Conformational analysis and transannular cyclisation, 2869
Shirahama, H. see Ohtsuka, T. 3851
Shiro, M. see Tsuji, N. 389
Shishido, K., Tanaka, K., Fukumoto, K. and Kometani, T. An efficient total synthesis of (\pm)-decaline and (\pm)-vertinaline, 2783
Shishoo, C.J., Devani, M.B., Bhadti, V.S., Ananthan, S. and Ullas, G.C. Reaction of nitriles under acidic conditions: A novel, direct formation of condensed 4-chloropyrimidines, 4611
Shitole, H.R., Vyas, P. and Nayak, U.R. Alloisolongifolene, a unique acid-catalyzed isomer of longifolene, 2411
Shitole, H.R., Dalavoy, V.S., Deodhar, V.B., Nayak, U.R., Acharya, K.R., Tavale, S.S., Row, T.N.G., Kamat, V.P. and Paknikar, S.K. X-ray structure of alloisolongifolol-*p*-nitrobenzoate: revision of the structure of alloisolongifolene, the parent hydrocarbon, 4739
Shizuri, Y., Niwa, M., Furukawa, H. and Yamamura, S. Isolation and structure of citreothiolactone, a novel metabolite of penicillium citreoviride B, 1053
Shizuri, Y., Kosemura, S., Ohtsuka, J., Terada, Y. and Yamamura, K. Structural and conformational studies on eupholioscopins A and B and related diterpenes, 2577
Shizuri, Y. and Yamamura, S. Efficient synthesis of several *Aniba* and *Magnolia* neolignans, 5011
Shono, T., Matsumura, Y. and Kanazawa, T. A general method for the synthesis of indoles bearing a variety of substituents at the β -position, and its application to the synthesis of L-tryptophan, 1259
Shono, T., Matsumura, Y. and Kanazawa, T. Stereoselective synthesis of (\pm)-conhydrine, (\pm)-N-methylephedrine, 4577
Shook, D. see Mazzocchi, P.H. 143
Shrof, H.N. see Smith, M.B. 2091
Shrubsall, P.R. see Baker, S.R. 4469
Shu, A.Y.L. see Lu, Y. 2433
Shubert, D.C. see Molander, G.A. 5449
Shudo, K. see Ohta, T. 71
Shudo, K. see Hashimoto, Y. 1523
Shute, R.E. see Bycroft, B.W. 601
Sibi, M.P. see Billedeau, R.J. 4515
Sibtain, F. see Alper, H. 5329
Sichert, H. see Schuster, H. 1485
Siddhanta, A.K. see Falck, J.R. 5715
Siegmeier, R. see Kessler, H. 281
Sigaut, F. see Levy, J. 4983, 4987
Silveira, L. see Pearson, A.J. 5827
Simon, K. see Korbonits, D. 5763
Simoni, D. see Baraldi, P.G. 4871, 5669
Simonidesz, V. see Galambos, G. 1281
Simonidesz, V. see Ivanics, J. 315
Simonnin, M.-P. see Halle, J.-C. 493, 2255
Simpson, G.W. see Battiste, M.A. 307
Simpson, G.W. see Coxon, J.M. 1427
Sims, J.J. see Wright, A.E. 4649
Sims, R.J., Tischler, S.A. and Weiler, L. Lactone synthesis via the intramolecular alkylation of β -keto ester dianions, 253
Sinay, P. see Lancelin, J.-M. 4833
Singaram, B. see Pelter, A. 623, 631, 635
Singaram, B. see Garad, M.V. 637
Singaram, S. see Pelter, A. 1433, 3162
Singh, P.R. and Khanna, R.K. Sodium naphthalene induced reductive demercuration and symmetrization of organomercuric halides, 973
Singh, P.R. and Khanna, R.K. Electron transfer mechanism in lithium aluminium hydride reduction of organomercuric halides, 973

- 1411
Singh, V. see **Hendrickson, J.B.** 431
Singleton, D.H. see **Curran, D.P.**
 0279
- Sinha, N.D., Grossbruchhaus, V.** and **Köster, H.** A new synthesis of oligodeoxynucleoside methylphosphonates on control pore glass polymer support using phosphite approach, 877
- Sinha, N.D., Biernat, J.** and **Köster, H.** β -Cyanoethyl N,N-dialkyl-amino/N-morpholinomonochloro phosphoamidites, new phosphitylating agents facilitating ease of deprotection and work-up of synthesized oligonucleotides, 5843
- Sinhababu, A.K.** and **Borchardt, R.T.** Silica gel-assisted reduction of nitrostyrenes to 2-aryl-1-nitroalkanes with sodium borohydride, 227
- Six, L., Ruess, K.-P.** and **Lieflander, M.** An efficient and stereoselective synthesis of 1,2-O-dialkyl-3-O- β -D-glycosyl-sn-glycerols, 1229
- Skattebøl, L.** and **Stenström, Y.** Synthesis of (\pm) lineatin, an aggregation pheromone component of *Trypodendron lineatum*, 3021
- Skinner, I.A.** and **Weedon, A.C.** Photoenolization of α,β -unsaturated esters; effect of base upon product distribution and reaction rate in photochemical deconjugation, 4299
- Slougui, N.** see **Rousseau, G.** 1251
- Smaardijk, A.A.** see **Wynberg, H.** 5899
- Smit, C.N., van der Knaap, Th.A.** and **Bickelhaupt, F.** Stable unsymmetrical diphosphenes, 2031
- Smit, W.A.** see **Ibragimov, M.A.** 961
- Smith, A.B.** see **Taylor, M.D.** 1867
- Smith, A.M.** see **Schell, F.M.** 1883
- Smith, D.M.** see **Glidewell, C.** 3151
- Smith, F.X.** see **Ketcha, D.M.** 2811
- Smith, F.X.** see **Hrubochak, D.M.** 4951
- Smith, J.K., Newcomb, M., Bergbreiter, D.E., Williams, D.R.** and **Meyers, A.J.** Highly regioselective deprotonations of acyclic ketimines, 3559
- Smith, K.M.** see **Abraham, R.J.** 2681
- Smith, M.B.** see **McManus, S.P.** 557
- Smith, M.B.** and **Shroff, H.N.** N-vinyl-2-ethoxypyrrolidinium tetrafluoroborate: An unusually reactive imidate salt, 2091
- Smith, M.B.** see **Hrubiec, R.T.** 5031
- Smith, M.R.** see **McManus, S.P.** 557
- Smith, P.A.S., Rowe, C.D.** and **Hansen, D.W., Jr.** Stereochemistry in the cyclization of *o*-azidophenyl *o*-azidophenylalkenes to indoles, 5169
- Smith, R.K.** see **Comins, D.L.** 2711
- Smith, T.A.** see **Croker, S.J.** 1559
- Smitka, T.A.** see **Bloem, R.J.** 249
- Sneden, A.T.** see **Hicks, R.P.** 2987
- Snider, B.B.** and **Faith, W.C.** The total synthesis of (\pm)-ptilocaulin, 861
- Snider, B.B.** see **Deutsch, E.A.** 3701
- Snieckus, V.** see **Reed, J.N.** 3795
- Snieckus, V.** see **Billedieu, R.J.** 4515
- Sobukawa, M.** see **Fukazawa, Y.** 2199
- Sochacka, E.** see **Matkiewicz, A.** 4387, 5391, 5395
- Sodano, G.** see **Cimino, G.** 3029
- Soderquist, J.A.** and **Leong, W.W.-H.** Unsymmetrical monoprotected α -diketones via the palladium-catalyzed vinylation of acid chlorides with organotin compounds, 2361
- Soffer, M.D., Burk, L.A., Troup, J.M.** and **Extine, M.W.** The total stereostructure of (-)-muurolene dihydrochloride, 1455
- Sohn, S.C.** see **Lee, I.** 4723
- Sokolenko, W.A.** see **Kogay, B.E.** 613
- Sola, R., Brugidou, J., Taillades, J., Commeyras, A.** et **Previero, A.** Composés détoniques supports catalyseurs d'hydratation des α -aminonitriles, 1501
- Solas, D.R.** see **Muchowski, J.M.** 3455
- Solladie, G., Zimmermann, R.** and **Bartsch, R.** Stereochemistry of the carbonation of carbanions α to a chiral sulfoxide, 755
- Solladie, G.** see **Ousset, J.B.** 4419
- Sommer, T.J.** see **Schreiber, S.L.** 4781
- Sonawane, H.R., Naik, V.G., Nanjundiah, B.S.** and **Purohit, P.C.** Photochemistry of organic multichomophoric molecules and reaction selectivity-I: Reactions of (+)-4 α -acetyl-2-carene, 3025
- Sonawane, H.R., Nanjundiah, B.S.** and **Purohit, P.C.** Stereochemical control on the photochemistry of α -methoxy- β,γ -cyclopropyl cyclic ketones: Reactions of epimeric 3-methoxy-4-caranones, 3917
- Sone, T.** see **Shinkai, S.** 3501
- Song, A.-T.** see **Zhao, Y.-F.** 1617
- Sonoda, N.** see **Chatani, N.** 5649
- Sonoda, T.** see **Iwamoto, H.** 4703
- Sorenson, E.M.** see **Erden, I.** 2731
- Sorgi, K.L.** see **Kozikowski, A.P.** 1563
- Soria, J.J.** see **Sánchez, I.H.** 551
- Souppe, J.** see **Namy, J.L.** 765
- Southgate, R.** see **Corbett, D.F.** 5543
- Southwell, I.A.** see **Ramage, R.** 4487
- Spada, A.P.** see **Roush, W.R.** 3693
- Spanget-Larsen, J.** see **Gleiter, R.** 1149
- Spassky, N.** see **Leborgne, A.** 1027
- Spear, R.J., Norris, W.P.** and **Read, R.W.** Direct (uncatalysed) formation of Meisenheimer complexes for primary, secondary and tertiary arylamines, 1555
- Speckamp, W.C.** see **Ent, H.** 2109
- Speckamp, W.N.** see **Jiemstra, H.** 1407
- Speranza, G.** see **Monti, D.** 417
- Speranza, M.** see **Giacomello, P.** 4157
- Spessard, G.O., Ritter, A.R., Johnson, D.M.** and **Montgomery, A.M.** Ring opening of cyclohexene epoxide with trimethylsilyl cyanide, 655
- Spina, K.P.** see **Babler, J.H.** 3835
- Spur, B., Crea, A., Peters, W.** and **König, W.** Formation and structure determination of 5,6-epoxy-8,11,14-Z-eicosatrienoic acid and 5-oxo-8,11,14-Z-eicosatrienoic acid, 1755
- Spraot, B.S.** and **Bannwarth, W.** Improved synthesis of oligodeoxynucleotides on controlled pore glass using phosphotriester chemistry and a flow system, 5771
- Spur, B., Crea, A., Peters, W.** and **König, W.** Synthesis of 11,12,14,15-tetrahydroleukotriene C,D,E via A, 2135
- Squires, T.G.** see **Aida, T.** 3543
- Sridharan, V.** see **Grigg, R.** 4363
- Srinivasan, P.C.** see **Vedachalam, M.** 3531
- Srivastava, S.** see **Jenner, G.** 2429
- Srivastava, S., Chang, S., Lauher, J., Jenner, G.** and **Le Noble, W.J.** Structure of solid di-9-pentacyclo[4.3.0.0^{2,4}.0^{3,6}.0^{5,7}]nonyl ether ("Coates' ether"). Bond shortening in an eclipsed bicyclopentyl, 2431
- Staab, H.A.** see **Zippies, M.F.** 1925
- Stagno d'Alcontres, G.** see **Caristi, C.** 1285
- Stammer, C.H.** see **Suzuki, M.** 3839
- Stark, K.M.** see **Bailey, M.S.** 3037
- Stec, W.J.** see **Guga, P.** 3899
- Steel, P.J.** see **Battiste, M.A.** 307
- Steel, P.J.** see **Coxon, J.M.** 1427
- Steglich, W.** see **Leyendecker, J.** 2375
- Steglich, W.** see **Dagne, E.** 5067
- Stegmann, U.** see **Eicher, T.** 2977

- Steigel, A. see Martin, H.-D. 5469
 Stein, C.A. see Baker, A.D. 2957
 Stenström, Y. see Skattebøl, L. 3021
 Sternbach, D.D., Hughes, J.W., Burdi, D.F. and Forstot, R.M. Synthesis of polyquinanes I: Intramolecular Diels-Alder reaction, 3295
 Sterner, O., Bergman, R., Kesler, E., Nilsson, L., Oluwadiya, J. and Wickberg, B. Velutinal esters of *Lactarius vellereus* nad *L. necator*. The preparation of free velutinal, 1415
 Sterner, O. see Kihlberg, J. 4631
 Stewart, A.O. see Williams, R.M. 2715
 Steyenberg, J.P., Ferreira, D. and Roux, D.G. The first condensed tannins based on a stilbene, 4147
 Stibbard, J.H.A. see Tamariz, J. 1497
 Stiehl, C. see Giese, B. 881
 Still, W.C. and Gennari, C. Direct synthesis of Z-unsaturated esters. A useful modification of the Horner-Emmons olefination, 4405
 Stille, J.K. see Godschalk, J.P. 1905
 Stille, J.K. see Labadie, J.W. 4283
 Stöckigt, J. see Pfitzner, A. 1695
 Stöckigt, J., Pfitzner, A. and Keller, P.J. Enzymatic formation of ajmaline, 2485
 Stöckigt, J. see Pfitzner, A. 5197
 Stoessl, A. see Holenstein, J.E. 4059
 Stoll, A.T. see Negishi, E. 5181
 Stolow, A. see Wolfe, S. 4071
 Stonik, V.A. see Kicha, A.A. 3893
 Stoodley, R.J. see Elliott, J.D. 965
 Stoodley, R.J. see Irving, J.R. 1429, 2501
 Stork, G., Winkler, J.D. and Saccomano, N.A. Stereochemical control in the construction of vicinally substituted cyclopentanes and cyclohexanes. Intramolecular conjugate addition of β -ketoester anions, 465
 Stork, G. see Ficini, J. 907
 Stork, G. and Atwal, K.S. Acid catalyzed intramolecular conjugate addition as a route to *trans* hydrindane systems, 3819
 Stork, G. and Kahn, M. A highly stereoselective osmium tetroxide-catalyzed hydroxylation of γ -hydroxy α,β -unsaturated esters, 3951
 Stork, G. and Stryker, J.M. Highly stereoselective axial addition of ethynyl carbanions to the carbonyl of cyclohexenones, 4887
 Storme, P. see Callant, P. 5797
 Stothers, J.B. see Holenstein, J.E. 4059
 Strausz, O.P. see Payzant, J.D. 651
 Strehler, C. see Martigneaux, M. 3327
 Streith, J. see Martigneaux, M. 3327
 Strekowski, L. see Battiste, M.A. 2611
 Stringer, O.D. see Davis, F.A. 1213, 3191
 Struchkov, Y.T. see Yagupolskii, Y.L. 87
 Stryker, J.M. see Stork, G. 4487
 Stumpe, A. see Köster, H. 747
 Stuttle, K.A.J. see Ansell, M.F. 3017
 Stütz, A.E. see Albert, R. 1763
 Su, W. see Corey, E.J. 4883
 Suárez, E. see Francisco, C.G. 3907, 4621
 Suau, R. see Boente, J.M. 2029, 2295, 2303, 4481
 Suau, R. see Castedo, L. 2107, 5419
 Suda, H., Kanoh, S., Umeda, N., Nakajo, T. and Motoi, M. Asymmetric reduction of aromatic ketones with borane-amine complexes modified with optically pure 2,2-dihydroxy-6,6'-dimethylbiphenyl, 1513
 Suehiro, K. see Enoki, N. 4341
 Sugahara, S. see Kuwajima, I. 1061
 Sugawara, M. and Baizer, M.M. Electrogenerated bases VII. Novel syntheses of ethyl glyoxalate and diethyl ketomalonate via electron-generated superoxide, 2223
 Sugawara, T., Inada, M. and Iwamura, H. Different photolytic behavior of 1,3-bis(α -diazobenzyl)benzene in solutions vs. in crystals and matrices, 1723
 Sugawara, T. see Kuwajima, I. 4429
 Sugimoto, I. see Yoshida, Z. 3469
 Sugimoto, T. see Yoshida, Z. 3469, 4585
 Suginome, H. see Miyaura, N. 1527
 Sugiura, H. see Nakayama, J. 2585
 Sugiura, S. see Tanaka, T. 4103
 Sugiyama, T. see Momose, D. 921
 Sugiyama, Y. see Kita, Y. 1273
 Sugiyama, Y. and Wedler, F.C. Quantitative separation and analysis of diastereomers of *L*-methionine-S,R-sulfoximine via cyclic N-blocked derivatives, 1471
 Sukh Dev see Kumar, V. 1289
 Sulmon, P. see De Kimpe, N. 2885
 Sultana, M. see Atta-ur-Rahman 1845
 Sunamoto, J. see Kondo, H. 2403
 Sundberg, R.J. and Nishiguchi, T. Synthesis and intramolecular photoaddition of an indole quinonediazide, 4773
 Sundermeyer, W. see Eisasser, A. 2141
 Sung, M.T. see Cao, T.M. 1019
 Suschitzky, H. see Iddon, B. 413
 Suschitzky, J.L. see Nixon, N.S. 597
 Suschitzky, H. see Daly, C.M. 5147
 Sütbeyaz, Y. see Balci, M. 311, 4135
 Sutherland, J.K. see Davies, D.T. 519
 Sutherland, M.D. see Métra, P.L. 1749
 Suzuki, A. see Hara, S. 731, 735
 Suzuki, A. see Miyaura, N. 1527
 Suzuki, A. see Takeda, K. 4451
 Suzuki, H. see Osuka, A. 2599, 5109
 Suzuki, K. see Tamagaki, S. 4847
 Suzuki, K., Katayama, E. and Tsuchihashi, G. Asymmetric pinacol-type rearrangement of α -hydroxy methanesulfonates promoted by triethylaluminum-preparation of optically pure α -aryl and α -vinyl ketones, 4997
 Suzuki, M., Yanagisawa, A. and Noyori, R. A short way to prostacyclin, 1187
 Suzuki, M., Gooch, E.E. and Stammer, C.H. A new synthesis of racemic coronamic acid and other cyclopropyl amino acids, 3829
 Suzuki, M. see Tanaka, T. 4103
 Suzuki, N., Tsukamoto, T. and Izawa, Y. Chemiluminescence of N-methyl-9-(dicarboalkoxymethyl)-acridanes: Successive formation of two 1,2-dioxetanone intermediates, 3005
 Suzuki, S., Mori, F., Takigawa, T., Ibata, K., Ninagawa, Y., Nishida, T., Mizuno, M. and Tanaka, Y. Synthesis of mammalian dolichols from plant polyprenols, 5103
 Suzuki, S., Fujita, Y. and Nishida, T. New diene formation by ene-type chlorination and palladium catalyzed dehydrochlorination: Synthesis of citral from diprenyl ether, 5737
 Suzuki, Y. see Kono, Y. 3803
 Sviridov, A.F., Ermolenko, M.S., Yashunsky, D.V., Kochetkov, N.K. and Zelinsky, N.D. Selenoesters in organic synthesis. 1. A novel synthesis of ketones, 4355
 Sviridov, A.F., Ermolenko, M.S., Yashunsky, D.V., Kochetkov, N.K. and Zelinsky, N.D. Selenoesters in organic synthesis. 2. Synthesis of α,β -unsaturated ketones, 4359
 Swaminathan, K.S., Ganesh, R.S., Venkatachalam, C.S. and Balasubramanian, K.K. A novel photochemical cyclisation of 4-chloro-3-(N-aryliminomethyl)(2H)-benzopyrans and benzothiopyrans, 3653
 Swamy, H.R. see Row, T.N.G. 3263

- Swanson, A.G.** The dependence of one-bond $^{13}\text{C}-^{13}\text{C}$ coupling constants of bond angles – a comment, 1833
- Swenton, J.S.** see Anderson, D.K. 1329
- Swenton, J.S.** see Savino, T.G. 4055
- Swern, D.** see Ketcha, D.M. 2811
- Sygula, A.** and Holak, T.A. A single molecule and crystal state conformation of 9,10-dihydroanthracene. A theoretical study, 2893
- Symons, M.C.R.** see Rao, D.N.R. 1293
- Symons, M.C.R.** and Wren, B.W. Radical cations of various ethene, ethine and cyclic ethers, 2315
- Szantay, C., Keve, T., Bölcseki, H.** and Acs, T. Synthesis of vinca alkaloids and related compounds XVII. Synthesis of deethyl-catharanthine, 5539
- Szeimies, G.** see Schlüter, A.-D. 891
- Szeimies, G.** see Von Norman, S. 4813
- Szwarc, H.** see Hebert, E. 1381
- Taafrout, M., Rouessac, F.** et Robin, J.-P. L'araliangine, nouveau lignane bisbenzocyclooctadiénolactonique de *Steganotaenia araliacea*, Hochst, 197
- Taafrout, M., Rouessac, F.** and Robin, J.-P. Neoisostegane, a new bisbenzocyclooctadienolactonic lignan from *Steganotaenia araliacea*, Hochst. (1), 2983
- Taafrout, M., Rouessac, F.** and Robin, J.-P. Prestegane A, from *Steganotaenia araliacea* Hochst.: The first natural dibenzyl-vutanolide lignan with a *meta*-phenol – a short synthesis of *cis* and *trans* (\pm) arctigenin, 3237
- Tabe, M.** see Ohnuma, T. 4249, 4253
- Tabushi, I.** and Nishiya, T. Colloidal platinum as an efficient and selective catalyst for reduction of metalloenzymes and metallocoenzymes, 5005
- Taddei, M., Papini, A., Fiorenza, M., Ricci, A.** and Seconi, G. Ring opening reactions of thiiranes with group IV B organometallics: A new regioselective route to β -amino and β -cyanide thiols, 2311
- Tagaki, W.** and Tamagaki, S. 4847
- Tahbaz, P.** and Berger, J.G. 2469
- Tai, D.F.** see Rebek, J., Jr. 859
- Taillades, J.** see Sola, R. 1501
- Taira, Z.** see Huneck, S. 115
- Taira, Z.** see Maruyama, T. 2571
- Tajima, K.** see Sato, T. 729
- Takabe, K.** and White, J.D. Synthesis of methyl 4-dihydrotrisporate B, a phohormone of *Blakeslea trispora*, 3709
- Takada, M.** see Minowa, N. 2391
- Takagi, K.** see Larock, R.C. 3457
- Takagi, N.** see Takemoto, T. 1057
- Takahashi, H.** see Tatsuta, K. 4867
- Takahashi, K., Nishijima, K., Takase, K.** and Katagiri, S. 5-(2,3-diphenylcyclopropenylidene)-2(5H)-thiophenone. Characterization of a thiophene-inserted type compound of diphenylcyclopropenone, 205
- Takahashi, K.** see Ogura, K. 503
- Takahashi, K.** see Ogura, K. 5761
- Takahashi, S., Serita, K., Arai, M., Seto, H., Furihata, K.** and Otake, N. Structure of pholipomycin, 499
- Takahashi, T., Nemoto, H.** and Tsuji, J. A general synthetic method for 2,6-cyclodecadienone system by intramolecular alkylation of protected cyanohydrins, 2005
- Takahashi, T., Nemoto, H., Tsuji, J.** and Miura, I. Simple total synthesis of (\pm)-acorgermacrone and (\pm)-mukulol by intramolecular alkylation of protected cyanohydrin, 3485
- Takahashi, T., Kitamura, K., Nemoto, H., Tsuji, J.** and Miura, I. A first total synthesis of germacrene and (\pm)-mukulol by intramolecular alkylation of protected cyanohydrin, 3489
- Takahashi, T., Kitamura, K.** and Tsuji, J. Syntheses of new humulene derivatives; (2E, 6E, 9E)- and (2Z, 6E, 9E)-cyclo-undecatrienes, by intramolecular alkylation of protected cyanohydrin. A route to humulene, 4695
- Takahashi, T.** see Ishibashi, M. 4843
- Takahashi, T.** see Kumirda, T. 5107
- Takahashi, T.** see Hirokami, S. 5237
- Takahashi, Y.** see Watabe, T. 5623
- Takai, K.** see Kanemotori, S. 2185
- Takai, K.** see Matsubara, S. 3741
- Takai, K., Kimura, K., Kuroda, T., Hiyama, T.** and Nozaki, H. Selective Grignard-type carbonyl addition of alkenyl halides mediated by chromium(II) chloride, 5281
- Takakis, I.M.** and Rhodes, Y.E. Acetolysis and formolysis of (R)- and (S)-1-deuterio-2-cyclopropylethyl p-toluenesulfonates, 4959
- Takaku, H., Ueda, S.** and Ito, T. Methoxyethoxy methyl group for the protection of uracil residue in oligoribonucleotide synthesis, 5363
- Takakusaki, K., Kakimoto, N., Takeuchi, Y.** and Tomoda, S. Synthesis of germanium derivatives of uracil and 5-fluorouracil, 1707
- Takakuwa, Y.** see Arai, K. 1531
- Takano, S., Morkawa, K.** and Hatakeyama, S. Enantioselective synthesis of (-)-sarracenin using D-glucose as chiral template, 401
- Takano, S., Hirama, M., Seya, K.** and Ogasawara, K. Nucleophilic displacement reactions of the methanesulfonates of the 1-O-benzoyl-1,2-,1,3-, and -1,4-glycols, 4233
- Takao, S.** see Nakata, T. 3873
- Takasaki, M.** see Nomoto, S. 3357
- Takasaki, M.** see Harada, K. 4839
- Takase, K.** see Yasunami, M. 69
- Takase, K.** see Takahashi, K. 205
- Takase, K.** see Fujimori, K. 781
- Takase, S.** see Goto, T. 4863
- Takata, T.** and Ando, W. Mild and selective oxygen atom transfer: $n\text{Bu}_4\text{NIO}_4$ with metalloporphyrins, 3631
- Takatsuto, S.** and Ikekawa, N. Stereoselective synthesis of plant growth-promoting steroids, dolicholide and 28-norbrassolinole, 773
- Takatsuto, S.** and Ikekawa, N. Remote substituent effect on the regioselectivity in the Baeyer-Villiger oxidation of 5 α -cholestane-6-one derivatives, 917
- Takaya, H.** see Miyashita, A. 2595
- Takeda, A.** see Utaka, M. 803, 2567
- Takeda, A.** see Tsuboi, S. 2393
- Takeda, K., Sawada, I., Suzuki, A.** and Ogura, H. A convenient synthesis of peptide using oxallates, 4451
- Takeda, K., Akagi, Y., Saiki, A., Tsukahara, T.** and Ogura, H. Convenient methods for syntheses of active carbamates, ureas and nitrosoureas using N,N'-disuccinimid carbonate (DSC), 4569
- Takee, K.** see Ohtaka, K. 4859
- Takei, H.** see Asaoka, M. 5127
- Takemoto, T., Nishimoto, N., Nakai, S., Takagi, N., Hayashi, S., Odashima, S.** and Wada, Y. Pfaffic acid, a novel nortriterpene from *Pfafia paniculata* Kuntze, 1057
- Takenaka, H.** see Nishizawa, M. 2581
- Takenaka, S.** see Minami, T. 767

- Takeuchi, R. see Watanabe, Y. 4121
 Takeuchi, S. see Kono, Y. 3803
 Takeuchi, Y. see Takakusaki, K.
 1707
 Takeuchi, Y. see Hayama, T. 2795
 Takigawa, T. see Suzuki, S. 5103
 Takinami, S. see Hara, S. 731
 Takita, T. see Yagisawa, N. 931
 Talapatra, B. see Allais, D.P. 2445
 Talapatra, S.K. see Allais, D.P. 2445
 Talbi, B. see Texier, F. 189
 Taljaard, H.C. see Meth-Cohn, O.
 4607
 Tamagaki, S., Suzuki, K., Okamoto,
 H. and Tagaki, W. Fe(III)-
 catalyzed hydroxylation of
 benzene with H_2O_2 in the
 presence of quinones, 4847
 Tamao, K. see Hayashi, T. 5661
 Tamariz, J., Schwager, L., Stibbard,
 J.H.A. and Vogel, P. Control of
 the Diels-Alder addition regio-
 selectivity by remote substituents.
 Synthesis of anthracycline
 precursors, 1497
 Tamaru, Y., Ochiai, H., Yamada, Y.
 and Yoshida, Z. Unsymmetrical
 ketone synthesis via palladium
 catalyzed carbonylation of
 organic halides, 3869
 Tamblyn, W.H. and Waltermire, R.E.
 Nucleophilic ring opening of
 diethyl 1,1-cyclopropane-
 dicarboxylate using $Na_2Fe(CO)_4$.
 3/2 dioxane, 2803
 Tamblyn, W.H., Aquadro, R.E.,
 DeLuca, O.D., Weingold, D.H.
 and Dao, T.V. Polynuclear borane
 anions as mild reducing agents 2.
 The octahydrotriborate (1-) anion
 in the presence of promoters,
 4955
 Tamoto, K. see Terashima, S. 2589
 Tamura, C. see Tsuboi, S. 2393
 Tamura, H. see Goto, T. 2181, 4863
 Tamura, H., Kondo, T., Kato, Y. and
 Goto, T. Structures of a succinyl
 anthocyanin and a molonyl
 flavone, two constituents of the
 complex blue pigment of corn-
 flower *Centaurea cyanus*, 5749
 Tamura, Y. see Kita, Y. 1273
 Tamura, Y. see Ishibashi, H. 3877
 Tanaka, I. see Morita, M. 5631
 Tanaka, K. see Shishido, K. 2783
 Tanaka, M. see Kuzuya, M. 4237
 Tanaka, N. see Kondo, T. 3647
 Tanaka, T. see Nakata, T. 2653, 3873
 Tanaka, T., Toru, T., Okamura, N.,
 Hazato, A., Sugiura, S., Manabe,
 K., Kurozumi, S., Suzuki, M.,
 Kawagishi, T. and Noyori, R. A
 short synthesis of (-)-prosta-
 glandin E₁', 4103
 Tanaka, Y. see Sato, F. 1041
 Tanaka, Y. see Suzuki, S. 5103
 Tanaka, S. see Iyoda, M. 2861
 Tang, K.-C. see Lashmet, P.R. 1121
 Tanguy, G., Weinberger, B. and des
 Abbayes, H. Catalytic phase
 transfer carbonylation of benzyl
 halides with iron pentacarbonyl
 4005
 Taniguchi, Y. see Ogawa, H. 1045
 Tanikawa, H. see Ando, W. 4245
 Tanimura, K., Kato, T., Waki, M. and
 Izumiya, N. Facile synthesis of
 (2R,3R)-phenylalanine-2, 3-d₂, and
 its application to conformational
 analysis of gramicidin S, 3737
 Taniyama, E. see Danishesky, S. 11,
 15
 Tanner, D., Wennerström, O. and
 Olsson, T. Electrocyclic ring
 closure of [2.2.6]paracyclo-
 phanepentaaene. Structure and
 dynamic stereochemistry of the
 product, 5407
 Tanner, D. see Nordinder, U. 5411
 Tarbin, J.A. see McKillop, A. 1505
 Tardella, P.A. see Lociuro, S. 593
 Tardivel, R. see Laurent, E. 903
 Taru, M. see Yoshimoto, K. 2779
 Tatsuta, K., Akimoto, K., Takahashi,
 H., Hamatsu, T., Annaka, M. and
 Kinoshita, M. Total synthesis of
 apramycin, 4867
 Taufer, I. see Helmchen, G. 3213
 Tavale, S.S. see Rao, A.V.R. 3013
 Tavale, S.S. see Shitole, H.R. 4739
 Taylor, E.C. and Davies, H.M.L.
 Rhodium(II) acetate-catalyzed
 reaction of ethyl 2-diazo-3-
 oxopent-4-enotes: Simple routes
 to 4-aryl-2-hydroxy-1-naphthoates
 and β,γ -unsaturated esters. The
 dianion of ethyl 4-(diethyl-
 phosphono)acetooacetate as a
 propionate homoenolate equivalent,
 5453
 Taylor, L.E.B. see Attah-Poku, S.K.
 677
 Taylor, M.D. and Smith, A.B. Total
 synthesis of (+)-hanegokedial,
 1867
 Tazaki, H. see Ichihara, A. 5373
 Tea-Gokou, C., Pradère, J.P.,
 Villiéras, J. et Quiniou, H. 6H-
 Thiazines-1,3-substituées en
 position 2 par un groupement
 labile, électrophiles ambients,
 3713
 Teisseire, P. see Giraudi, E. 489
 Templeton, G.E. see Meyer, W.L.
 5059
 Tenaglia, A. see Brun, P. 385
 Tencer, M. see Liu, M.T.H. 5713
 Terada, Y. see Shizuri, Y. 2577
 Terahara, A. see Ogita, T. 2283
 Teranishi, S. see Kaneda, K. 5009
 Terashima, S. and Tamoto, K. A
 novel racemization mechanism
 for the α -hydroxy ketone moiety
 (C₂-position) of optically active
 anthracyclinone derivatives, 2589
 Termini, J. see Croteau, A.A. 2481
 Terrett, N.K. see Fleming, I. 4151,
 4153
 Terrier, F. see Hallé, J.-C. 2255
 Texier, F. see Yebdri, O. 369
 Texier, F., Yebdri, P., Laidoudi, A.,
 Talbi, B., Balegronne, F. et
 Germain, G. Addition d'azlactones
 ylures d'azométhine potentiels
 aux esters acryliques et fumariques
 et au fumaronitrile: Obtention de
 carbolactones, 189
 Tezuka, T. and Iwaki, M. A novel
 base-catalyzed transformation of
 α -azobenzyl hydroperoxide into
 benzoic acid. A postulated
 oxenoid intermediate of the
 reaction, 3109
 Thakker, D.R. see Yagi, H. 1349
 Thal, C. see Tixidre, A. 3323
 Thal, C. see Brayer, J.-L. 4193
 Thebtaranonth, C. see Kodpinid, M.
 2019
 Thebtaranonth, Y. see Kodpinid, M.
 2019
 Thianpatanagul, S. see Grigg, R. 4363
 Thibeault, D. see Canonne, P. 2991
 Thiebault, H. see Laurent, E. 903
 Thomas, E.J. see Harkin, S.A. 5535
 Thomas, E.W. Reaction of methylene-
 cyclopropyllithium with electro-
 philes, 1467
 Thomas, E.W. Reaction of methylene-
 cyclopropylcarbinols with formic
 acid, 2347
 Thompson, J.K. see Reid, S.T. 2209
 Thomson, R.H. see Laatsch, H. 2701
 Thomson, R.H. see Alpertunga, B.
 4461
 Thorntwaite, D. see Davidson, R.S.
 5907
 Thornton, E.R. see Wydila, J. 233
 Tian, Y.-F. see Zhao, Y.-F. 1617
 Tiberio, R. see Zamir, L.O. 2815
 Tietze, L.F., Bergmann, A. and
 Brüggemann, K. Regioselective
 photochemical cycloaddition of
 enamine-carbaldehydes and
 alkenes; synthesis of 1,4-dihydro-
 pyridines and 2-hydroxy-1,2,3,4-
 tetrahydropyridines, 3579
 Tihange, G. see Mbui, M. 5873
 Tilstam, U. see Bergman, J. 3665
 Timmermans, P.J.J.A., De Ruiter,
 G.M.J., Tinnemans, A.H.A. and
 Mackor, A. Photocatalysis (VIII)
 (Stereo) selective photochemical

- co-dimerization of cyclohexene and cycloheptene, catalyzed by copper(I) triflate, 1419
- Tinnemans, A.H.A. see Timmermans, P.J.A. 1419
- Tischler, S.A. see Sims, R.J. 253
- Tischler, M. see Chen, S.F. 5461
- Tixidre, A., Alazard, J.-P. et Thal, C. Régiosélectivité d'oxydation de diènes et triènes hétérocycliques, 3323
- Tobe, Y., Ohtani, M., Kakiuchi, K. and Odaira, Y. The Bayer-Villiger oxidation via carbocation. Oxidation of 7-acetyl[4.2.1]- and 7-acetyl[4.2.2]propellanes, 3639
- Tochtermann, W. see Krieger, C. 707
- Tochtermann, W. see Liebe, J. 2549
- Toi, H. see Ogoshi, H. 929
- Tojo, G. see Castedo, L. 5419
- Tokiyama, A. see Nakayama, J. 3729
- Tokumaru, K. see Arai, T. 2873
- Tomas, M. see Padwa, A. 4303
- Tomasik, W. see Loepky, R.N. 4271
- Tomimatsu, K. see Kataoka, T. 75
- Tomioka, H., Miura, S. and Izawa, Y. Synthesis and photochemical reaction of Diels-Alder adduct of phosphole oxide and cyclopentadiene, 3353
- Tomita, H. see Nishinaga, A. 213
- Tomita, Y. see Ueno, A. 5245
- Tomiyoshi, N. see Matsuda, F. 1277
- Tomo, Y. see Yamamoto, 1997
- Tomo, Y. see Nagashima, H. 2395
- Tomoda, S. see Takakusaki, K. 1707
- Tomoda, S. see Hayama, T. 2795
- Tomoto, A. see Hori, M. 3733
- Tonachini, G. see Wolfe, S. 3789
- Tonellato, U. see Fornasier, R. 5541
- Toner, J.L. Cyclosexipyridines, 2707
- Tooyama, Y. see Aoki, M. 2267
- Toppet, S. see L'Abbé, G. 3149
- Tori, K. see Inamori, N. 5265
- Torii, S. see Uneyama, K. 2857
- Torisawa, Y. see Shibusaki, M. 3493
- Toru, T. see Tanaka, T. 4103
- Toscano, L. and Seghetti, E. Transformation of 3-O-mycarosyl-erythronolide B, an intermediate of erythromycin biogenesis, into 3-O-mycarosyl-(8S)-8-fluoro-erythronolide B using trifluoromethyl hypofluorite, 5527
- Toth, J.O., Luu, B. and Ourisson, G. Les acides ganodériques T à Z: Triterpenes cytotoxiques de *Ganoderma lucidum* (polyporacée), 1081
- Toulléc, J., Mladenova, M., Gaudemer-Bardone, F. and Blagoev, B. Entropic evidence for the formation of carbonyl compound-dependent intermediate complexes in the Ivanov reaction, 589
- Touzin, A.-M. see Ficini, J. 1025
- Touzin, A.M. see Desmaële, D. 3083
- Townsend, L.B. ass Acevedo, O.L. 4789
- Townsend, L.B. see Beylin, V.G. 4793
- Toya, Y., Nakatsuka, S. and Goto, T. Structure of *Cypridina* luciferinol, "reversibly oxidized *Cypridina* luciferin", 5753
- Toyota, A. and Nakajima, T. The ground-state electronic structure of the heptafulvalene trianon radical, 1179
- Toyota, K. see Yoshifuji, M. 4227
- Trainor, D.A. see D-Noví, M. 855
- Traldi, P. see Guella, G. 3897
- Trenerry, V.C. see Coxon, J.M. 1427
- Trichtinger, T., Charubala, R. and Pfleiderer, W. Synthesis of O⁶-p-nitrophenylethyl guanosine and 2'-deoxyguanosine derivatives, 711
- Trippett, S. see Dashan, L. 2039
- Trojánek, J. see Koblicová, Z. 4381
- Tromp, M. see Marugg, J.E. 3989
- Trost, B.M. and Pearson, W.H. A synthesis of the naphthalene core of streptovaricin D via a synthon of NH₂, 269
- Trost, B.M. and Remuson, R. Tandem annulations.
- 2-Bromomethyl-3-(trimethylsilylmethyl)buta-1,3-diene as a synthon for a zwitterion of 2,2'-biallyl, 1129
- Trost, B.M. and Ornstein, P.L. Bifunctional cyclopropyl reagents: A total synthesis of 7-E,9-Z methyl trisporate B, 2833
- Trost, B.M., Lautens, M. and Peterson, B. Molybdenum catalyzed eliminations of allylic acetates. New diene synthesis, 4525
- Trost, B.M. and Yoshida, J. An umpolung of aryl and vinyl halides using tris-(trimethylsilyl)aluminum: an approach to *meta*- and *para*-bridged aromatics, 4895
- Trotter, J. see Ariel, S. 4333
- Troughton, E.B. see Arnett, E.M. 3299
- Troup, J.M. see Soffer, M.D. 1455
- Tsai, Y.-M. see Hart, D.J. 4387
- Tsubo, S., Arisawa, K., Takeda, A., Sato, S. and Tamura, C. Revision of the structure of the reaction product of chloral with α -acetyl-cyclopentanone in the presence of base, 2393
- Tsuboi, S. see Utaka, M. 2567
- Tsuchihashi, G. see Yamashita, M. 79
- Tsuchihashi, G. see Suzuki, K. 4997
- Tsuchiya, M. see Kamimura, T. 2775
- Tsuda, Y. see Yoshimoto, K. 2779
- Tsuge, S. see Fujisawa, T. 1543
- Tsuji, E. see Nozoe, S. 1731
- Tsuji, J., Minami, I. and Shimizu, I. Palladium-catalyzed allylation of ketones and aldehydes via allyl enol carbonates, 1793
- Tsuji, J. see Shimizu, I. 1797, 3865
- Tsuji, J. see Nagashima, H. 2395
- Tsuji, J. see Takahashi, T. 2005, 3485, 3489, 4695
- Tsuji, J., Minami, I. and Shimizu, I. Allylation of ketones via their enol acetates catalyzed by palladium-phosphine complexes and organotin compounds, 4713
- Tsuji, J., Minami, I. and Shimizu, I. A novel palladium-catalyzed preparative method of α,β -unsaturated ketones and aldehydes from saturated ketones and aldehydes via their silyl enol ethers, 5635
- Tsuji, J., Minami, I. and Shimizu, I. One-step synthesis of α,β -unsaturated ketones by the reaction of enol acetates with allyl methyl carbonate catalyzed by palladium and tin compounds, 5639
- Tsuji, N., Kamigauchi, T., Nakai, H. and Shiro, M. X-ray analysis of dibromogriseusin A, revised absolute configuration of griseusins, 389
- Tsuji, T. and Nishida, S. Auto-merization in 4.2.2 propellala-2,4,7,9-tetraene system, 1269
- Tsuji, T. and Nishida, S. Syntheses and properties of 2,5-etheno [4.2.2]propella-3,7,9-triene and its derivatives, 3361
- Tsuji, Y. see Watanabe, Y. 4121
- Tsukahara, T. see Takeda, K. 4569
- Tsukamoto, T. see Suzuki, N. 3005
- Tsukitani, Y. see Kikuchi, H. 1549
- Tsukitani, Y. see Iguchi, K. 4433
- Tsukube, H. Lipophilic macrocyclic tetramine as specific carrier of amino acids and related anions, 1519
- Tsunoo, T. see Shinkai, S. 1539
- Tsuno, Y. see Fujio, M. 2177
- Tsunoda, T., Kodama, M. and Itô, S. Total synthesis of (\pm)-silphinene, 83
- Tsuruoka, T. see Seto, H. 495, 1805
- Tsuyuki, T. see Ishibashi, M. 4843
- Tubul, A., Meou, A. et Bertrand, M. Un nouveau carbene ambiphile:

- 1'- α -cyclohexylidène-cyclobutylidène, 4199
- Tumlinson, J.H. see Rocca, J.R. 1889, 1893
- Tundo, A. see Leardini, R. 3381
- Tureček, F. see Koblíková, Z. 4381
- Turkenburg, L.A.M., De Wolf, W.H. and Bickelhaupt, F. 8, 11-dichloro[5]metacyclophane, 1817
- Turkenburg, L.A.M., De Wolf, W.G., Bickelhaupt, F., Cofino, W.P. and Lammertsma, K. [5]Metacyclophanes. A spectroscopic and theoretical investigation of structure and conformation, 1821
- Turner, A.B. and van Leersum, P.T. Synthesis and preliminary odour evaluation of the 14 β -epimer of the boar taint steroid, 4589
- Turner, J.V. see Orban, J. 2697
- Turner, S.E. see Cooke, M.D. 3373
- Turro, N.J. see Moss, R.A. 685, 3418
- Turro, N.J. see Cox, D.P. 5313
- Tute, M. see Grigg, R. 4363
- Tyrrell, A.W.R. see Ferres, H. 3769
- Tzschach, A. see Heinicke, J. 5481
- Ubierna, J.J. see Ballester, M. 2121
- Uchiyama, M. see Hayakawa, Y. 1165, 5641
- Ueda, S. see Takaku, H. 5363
- Uemura, S. and Fukuzawa, S. Novel oxidation of alkyl phenyl tellurides and telluroxides with meta-chloroperbenzoic acid: Replacement of tellurium moiety by methoxy group accompanied by ring-contraction and phenyl migration, 4347
- Ueno, A., Tomita, Y. and Osa, T. Photoresponsive binding ability of azobenzene-appended γ -cyclo-dextrin, 5245
- Ueno, K. see Ando, W. 4033
- Ugarkar, B. see Ensley, H.E. 5189
- Uguen, S. see Julia, M. 1783
- Ukachukwu, V.C. see Caine, D. 3959
- Ukai, J., Ikeda, Y., Ikeda, N. and Yamamoto, H. Direct, stereoselective synthesis of ether *E*- or *Z*-1,3-dienes, 4029
- Ukita, T. see Ochiai, M. 4025
- Ullas, G.V. see Shishoo, C.J. 4611
- Ulrich, E.L., Westler, W.M. and Markley, J.L. Reassignments in the ^1H NMR spectrum of flavin adenine dinucleotide by two-dimensional homonuclear chemical shift correlation, 473
- Umeda, N. see Suda, H. 1513
- Umezawa, H. see Yagisawa, N. 931
- Uneyama, K., Isimura, A., Fujii, K. and Torii, S. Electrogenerated acid as a powerful catalyst for transformation of epoxides to ketons and acetonides, 2857
- Uosaki, Y. see Niwa, H. 5731
- Urabe, H. and Kuwajima, I. Hydroxy group-assisted isomerization and alkylation of allylsilanes in basic media. α -(1-trimethylsilylallyl) ketone as an α -alkenyl ketone equivalent, 4241
- Urabe, H. and Kuwajima, I. Generation of stannyli derivatives of methyl ketones via a selective silyl-stannyli exchange and its application to aldol reaction, 5001
- Urbach, H. see Henning, R. 5339, 5343, 5347
- Urch, C.J. see Fleming, I. 4591
- Usman, N. see Ogilvie, K.K. 865
- Utaka, M., Nakatani, M. and Takeda, A. Photosensitized oxygenation of the enol forms of 1,2-cyclohexanediones, 803
- Utaka, M., Makino, H., Oota, Y., Tsuboi, S. and Takeda, A. Facile preparation of 2,6-dimethyl-2,6-tetrahydropyran carbolactone, a versatile intermediate for the syntheses of (\pm)-frontaline, (\pm)-cinenic acid, and (\pm)-linaloyl oxide, 2567
- Uyehara, T. see Aoki, M. 2267
- Uyehara, T., Yamada, J., Kato, T. and Bohlmann, F. Total synthesis of (\pm)-isosesquicarene: A structural revision, 4445
- Uyehara, T. see Kato, T. 4715
- Uzinskas, I. see Perchonock, C.D. 2457
- Vägberg, J. see Bäckvall, J.-E. 411
- Valentin, E. see Barbarella, G. 1621
- Vallée, Y. see Beslin, P. 3617
- van Bekkum, H. see Peters, J.A. 3141
- van Bladeren, P.J. and Jerina, D.M. Facile synthesis of K-region arene oxides, 4903
- van Boeckel, C.A.A. and Beetz, T. Hydrazinedithiocarbonate (HDTC) (HDTC) as a new reagent for the improved removal of chloroacetyl and bromoacetyl protective groups, 3775
- van Boom, J.H. see Marugg, J.E. 3989
- Vanderbilt, D.P. see Battiste, M.A. 2611
- van der Eycken, E. see Callant, P. 5797
- van der Gen, A. see van Schaik, T.A.M. 1303
- van der Knapp, Th.A. see Smit, C.N. 2031
- van der Marel, G.A. see Marugg, J.E. 3989
- van der Veen, J.M. see Wang, L. 2627
- Vanderveer, D.G. see Caine, D. 1353
- Vandewalle, M. see Callant, P. 5797
- van Dijk, B.G. see Verboom, W. 3923
- van Henegouwen, G.M.J.B. see Sedee, A.G.J. 5779
- van Krachten, E.M.G.A., Haces, A. and Okamura, W.H. Configurability of allenic anions, use of a vitamin D derived CD fragment as a stereochemical probe and the stereoselective synthesis of precursors, 3939
- van Leersum, P.T. see Turner, A.B. 4589
- van Meerssche, M. see Le Clef, B. 1035
- van Norman, S., Butkowskyj-Walkiw, T. and Szeimies, G. On the intermediacy of 3-*tert*-butoxy-1,2-dehydroquadricyclane, 4813
- Van Royen, L.A., Mijnheer, R. and de Clercq, P.J. Intramolecular Diels-Alder reaction with furan diene. A new synthesis of 11-keto steroids, 3145
- van Schaik, T.A.M., Henzen, A.V. and van der Gen, A. A Horner-Wittig solution to the synthesis of ketene 0,0-acetals, 1303
- Varenne, J. see Fourrey, J.-L. 1963
- Vasella, A. see Bernet, M. 5491
- Vasquez, P.C. see Baumstark, A.L. 123
- Vasseur, J.J., Rayner, B. et Imbach, J.-L. Nouveau groupement lipophile protecteur du phosphate pour la synthèse d'oligo-nucléotides, 2753
- Vatele, J.-M. An easy and efficient synthesis of α -methylene- γ,δ -unsaturated esters from allylic alcohols, 1239
- Vaultier, M., Knouzi, N. et Carrié, R. Reduction d'azides en amines primaires par une méthode générale utilisant la réaction de Staudinger, 763
- Vaya, J. see Kelley, T.R. 2331
- Vedachalam, M., Mohan, B. and Srinivasan, P.C. A facile preparation of 2-alkylindoles – potential intermediates for alkaloids, 3531
- Veiko, V.P. see Rosenthal, A. 1691
- Weith, M., Huch, V., Majoral, J.-P., Bertrand, G. and Manuel, G. Stannylene and germylene as powerful dechlorinated reagents. New route to diphosphene, 4219
- Venegas, M.G. see Little, R.D. 4499

- Venier, C.G. see Aida, T. 3543
 Venkatachalam, C.S. see
 Swaminathan, K.S. 3653
 Venkatesan, K. see Row, T.N.G.
 3263
 Venkateswaran, R.V. see Banerjee,
 U.K. 423, 4625
 Venkateswarlu, R. see Pelter, A. 523
 Verboom, W., van Dijk, B.G. and
 Reinhoudt, D.N. Novel applica-
 tions of the "t-amino effect" in
 heterocyclic chemistry; synthesis
 of 5*H*-pyrrolo- and 1*H*,6*H*-
 pyrido[1,2- α][3,1] benzoxazines,
 3923
 Verdine, G.L. see Nelson, G.L. 991
 Verhé, R. see de Kimpe, N. 2885
 Verkruissse, H.D. see Kulik, W. 2203
 Vermeylen, L. see le Clef, B. 1035
 Veronese, A.C. see Scrimin, P. 4473
 Versace, R. see Girijavallabhan, V.M.
 3179
 Veyrieres, A. see Alais, J. 2383, 5223
 Vialle, J. see Beslin, P. 3617
 Viallefond, Ph. see Bernardini, A.
 3717
 Viallefond, Ph. see Bajgrowicz, J.A.
 3721
 Vicens, J., Etter, M.C. and Errede,
 L.A. Solid State hydrolysis of
 acetylanthranyl-assistance by
 hydrogen bonding, 723
 Vidal, M.C. see Boente, J.M. 2295,
 2303, 4481
 Vidari, G. see de Bernardi, M. 1635
 Viehe, H.G. see Le Clef, B. 1035
 Viehe, H.G. see Merényi, R. 2765
 Vijverberg, C.A.M. see Peters, J.A.
 3141
 Villemain, D. Synthèse du
 triacontanol-1 par métathèse
 fonctionalisée, 2855
 Villiéras, J. see Tea-Gokou, C. 3713
 Visnick, M. see Battiste, M.A. 2611
 Visser, R.G. see Kamphuis, J. 2299
 Vita-Finzi, P. see de Bernardi, M.
 1635
 Vogel, P. see Tamariz, J. 1497
 Vogel, P. see Gavioud, R. 1983
 Vogel, P. see Mahaim, C. 3603
 Vogel, P. see Zhichen, Z. 3607
 Vogler, H. Theoretical study of the
 lower singlet excitations of
 [2.2]paracyclophane quinhy-
 drones, 2159
 Volbach, W. und Ruppert, I.
 CF₃P(NEt₂)₂ als Schüsselsubstanz
 für CF₃-substituierte Phosphane-
 Direktsynthese und Verwendung,
 5509
 Volkmann, R.A. see Mietz, C.N.
 4503, 4507
 Von Schnering, H.G. see Christl, M.
 353
 Von Schnering, H.G. see Quast, H.
 5595
 Vo Quang, Y., Marais, D., Vo Quang,
 L. et Le Goffic, F. Préparation
 simple et stéréosélective d'alkoxy-
 3 propénals E, 5209
 Vo Quang, L. see Vo Quang, Y. 5209
 Vorbrüggen, H. see Nickolson, R.C. 4
 47
 Vorbrüggen, H. and Krolikiewicz, K.
 Conversion of heterocyclic N-
 oxides into α -alkylated hetero-
 cycles. Trimethylsilanol as leaving
 group - IV^{1,2}, 889
 Vorbrüggen, H. and Krolikiewicz, K.
 A simple reduction of aromatic
 heterocyclic-N-oxides with hexa-
 methyldisilane: Reactions with
 Hexamethyldisilane and fluoride
 ion, 5337
 Vostrowsky, O. see Becker, D. 5505
 Vrudhula, V.M. see Jarvis, B.B. 3539
 Vyas, P. see Shitole, H.R. 2411
 Wacker, O., Kump, W. and Müller,
 B.W. A rearrangement in the
 bicyclomycin, series, 5607
 Wada, M., Shigehisa, T. and Akiba,
 K. Chemoselective reaction of
 allylsilanes with α -chlorosulfides
 containing a carbonyl group,
 1711
 Wada, M., Shigehisa, T., Kitani, H.
 and Akiba, K. One-pot synthesis
 of γ -butyrolactones and 4,5-
 dihydrofurans from α -chloro-
 α -ketosulfides and olefins, 1715
 Wada, M. see Akiba, K. 5269
 Wada, T. see Mandai, T. 1171
 Wada, Y. see Takemoto, T. 1057
 Waegell, B. see Brun, P. 385
 Waegell, B. see Heumann, A. 1971
 Wagenaar, A. see Hovius, K. 3137
 Wagner, A. see Schmidt, R.R. 4661
 Wahlberg, I., Eklund, A.-M., Nishida,
 T., Enzell, C.R. and Berg, J.-E.
 7,8-epoxy-4-basman-6-one, a
 tobacco diterpenoid having a
 novel skeleton, 843
 Wakabayashi, Y. see Sato, T. 4123
 Wakamatsu, H. see Nagashima, H.
 2395
 Wakamatsu, K. see Niwa, H. 4117,
 5371
 Waki, M. see Tanimura, K. 3737
 Waksmunski, F. see Mrozik, H. 5333
 Wallace, T.W. see Azadi-Ardakani, M.
 1829
 Walley, D.R. see Belletire, J.L. 1475
 Wallis, C.J. see Collington, E.W.
 3121, 3125
 Waltermire, R.E. see Tamblyn, W.H.
 2803
 Wang, B.C. see Kozikowski, A.P.
 1563, 3705
 Wang, C.-L.J. Azaprostanoids II.
 Synthesis of 12-azacarbopropo-
 stacyclin analogs, 477
 Wang, D. and Chan, T.H. Chiral
 silicon compounds. Asymmetric
 reduction of ketones, 1573
 Wang, L., Schuster, D.I. and van der
 Veen, J.M. Synthesis, isolation
 and characterisation of *cis*- and
 trans-2,7-dimethyl-3,5-cyclo-
 heptadienone, 2627
 Wang, W.-L. see Seyforth, D. 4907
 Ward, R.S. see Pelter, A. 523, 621,
 3133
 Warner, P., Chu, I.-S. and Boulanger,
 W. Bridged dienes: Synthesis
 of bicyclo[4.3.1]deca-1,5-diene,
 4165
 Warner, P. and Peacock, S. Strain
 energies of some bridgehead
 dienes via MM2 calculations,
 4169
 Warpehoski, M.A. see Wierenga, W.
 2437
 Warren, S. see Buss, A.D. 111, 3931,
 5293
 Warren, S. see Cavalla, D. 295
 Warren, S. see Durman, J. 2113,
 3927
 Warren, S. see Cornish, C.A. 2603
 Warren, S. see Brownbridge, P.
 3391
 Wasserman, H.H. and Dion, R.P.
 Acid-catalyzed thermolysis of
 dicyclopropyl ketimines. Sub-
 stituent effects on the course of
 the rearrangement, 3409
 Wasserman, H.H. and Robinson,
 R.P. The synthesis of (\pm)-
 verbascenine, 3669
 Watabe, T., Takahashi, Y. and
 Oda, M. 1,2-dihydro-3,10-
 dihydroxycyclobut[*b*]
 anthracene-4,9-dione a key
 intermediate for 4-demethoxy-
 anthracyclones, 5623
 Watanabe, H. see Sato, F. 1041
 Watanabe, T. see Murahashi, S.
 1049
 Watanabe, T. see Aoyama, Y. 1183
 Watanabe, Y. see Miyashita, A. 2595
 Watanabe, Y., Tsuji, Y., Ohsumi, T.
 and Takeuchi, R. The platinum
 catalyzed reduction of nitro-
 arenes to aminoarenes with
 carbon monoxide and water,
 4121
 Waterhouse, I. see Collington, E.W.
 3125
 Waterman, P.G. see Jeffreys, J.A.D.
 1085
 Wätjen, F. see Christensen, J.A. 5151

- Watson, S.E. see Anderson, R.C. 3267
- Waykole, L. see Goldsmith, D. 5935
- Weatherstone, T.A.P. see Bradley, J.P. 2851
- Webb, R.R. and Danishefsky, S. Ureidoallylation of double bonds, 1357
- Webb, R.R. see Danishefsky, S. 11
- Webb, V.L. see Buchanan, G.W. 4519
- Weber, T. see Seebach, D. 3315
- Wedemann, P. see Binger, P. 5847
- Wedler, F.C. see Sugiyama, Y. 1471
- Weedon, A.C. see Skinner, I.A. 4299
- Wei, C.-C., Borgese, J. and Weigle, M. *Seco*-dethiacephalosporins, 1875
- Weigle, M. see Wei, C.-C. 1875
- Weiler, L. see Sims, R.J. 253
- Weinberger, B. see Tangy, G. 4005
- Weingold, D.H. see Tamblyn, W.H. 4955
- Weinreb, S.M. see Bremmer, M.L. 261
- Weinreb, S.M. see Garigipati, R.S. 987
- Weinstein, R.M. see Seyerth, D. 4907
- Weiss, J. see Liebe, J. 2549
- Weiss, R.H. see White Dixon, D.K. 4393
- Welvart, Z. see Hebert, E. 1381, 4683
- Welzel, P., Hobert, K., Ponty, A. and Milkova, T. 4-Androsten-3,17-dione from cholesterol, β -sitosterol, and campesterol by chemical degradation, 3199
- Welzel, P. see Böttger, D. 5201
- Wendenbaum, S., Demange, P., Dell, A., Meyer, J.M. and Abdallah, M.A. The structure of pyoverdine *Pa*, the siderophore of *Pseudomonas aeruginosa*, 4877
- Wender, P.A. and Dreyer, G.B. Synthetic studies on arene-olefin cycloadditions – V. Total synthesis of (\pm)-isoiridomycin, 4543
- Wender, P.A. and Howbert, J.J. Synthetic studies on areneolefin cycloadditions -VI-. Two syntheses of (\pm)-coriolin, 5325
- Wendler, N.L. see Girotra, N.N. 3687
- Wennerström, O. see Tanner, D. 5407
- Wennerström, O. see Norinder, U. 5411
- Werner, G., Hagenmaier, H., Albert, K., Kohlhorn, H. and Drautz, H. The structure of the bafilomycins, a new group of macrolide antibiotics, 5193
- West, R. see Blinka, T.A. 1567
- Westler, W.M. see Ulrich, E.L. 473
- Weyler, V. see González, A.G. 847, 1075
- Wheeler, J.W., Shamim, M.T., Brown, P. and Duffield, R.M. Semiterpenoid esters from the venom of the European Hornet, *vespa crabro* (Hymenoptera: vespidae), 5811
- White, J.D. see Takabe, K. 3709
- White, J.D., Kang, M. and Sheldon, B.G. (*2S, 3R*)-1,2-epoxy-3-butanol. A useful synthon for the preparation of chiral 1,2-diols, 4539
- White, M.S. see Clark, J.H. 1097
- White, S.K. see Meyers, A.I. 3551
- White Dixon, D.K., Weiss, R.H. and Nelson, W.M. The 1,4,2,3-dioxadiazine ring system, 4393
- Whitefield, M. see Davies, A.G. 4465
- Whitesell, M.A. and Kyba, E.P. Addition of amine nucleophiles to diphosphorylalkynes. The chemistry of the derived enamines, 1679
- Wickberg, B. see Sterner, O. 1415
- Wickberg, B. see Kihlberg, J. 4631
- Wickham, G. see Laycock, B. 5785
- Wickham, G. see Young, D. 5789
- Widera, R. see Mühlstädt, M. 3203, 3979
- Wiechert, R. see Neef, G. 5205
- Wieland, P. and Kalvoda, J. Synthesis of 1,1 α -ethano corticosteroids, 5603
- Wierenga, W., Griffin, J. and Warpehoski, M.A. A versatile and efficient process to 3-substituted indoles from anilines, 2437
- Wilhelm, D., Clark, T. and Schleyer, P.V.R. The stereochemistry of the dibenzylideneethylene dianion, 3985
- Wilhelm, E. see Würthwein, E.-U. 581
- Williams, D.H. see Brereton, R.G. 5775
- Williams, D.J. see Boar, R.B. 617
- Williams, D.J. see Lobo, A.M. 2205
- Williams, D.J. see Ferres, H. 3769
- Williams, D.R. and Moore, J.L. Thione reductions for preparation of five-membered heterocycles, 339
- Williams, D.R. and Barner, B.A. Synthetic studies of 1,7-dioxa[5,5]undecan-4-ones, 427
- Williams, D.R. see Smith, J.K. 3559
- Williams, D.R. and Sakdarat, S. Opportunities for selective removal of methoxyethoxy-
- methyl (MEM) ethers, 3965
- Williams, E.G. see Kay, I.T. 5915
- Williams, L. see Pelter, A. 623, 627
- Williams, R.D. see Chwang, T.L. 3183
- Williams, R.M. and Stewart, A.O. C-Glycosidation of pyridyl thioglycosides, 2715
- Wilson, I.B. see Harris, R.B. 231
- Wilson, J.W. see Pelter, A. 623, 627, 631, 635
- Wilson, J.W. see Garad, M.V. 637
- Wilson, P. see Mazzocchi, P.H. 143
- Wilson, R.M. and Chow, T.J. A comparison of the decomposition of a 3-nitreno-1,3-oxazolin-2-one and the isomeric 1,3,4-oxadiazin-2-one, 4635
- Wilson, S.R. and Price, M.F. Intramolecular protodesilylation of allyl silanes: 1,3- and 1,4-asymmetric induction, 569
- Wing, R.M. see Wright, A.E. 4649
- Winkler, J.D. see Stork, G. 465
- Wise, S. see Shea, K.J. 4173
- Woell, J.B. see Alper, H. 5691
- Wolf, J.-G. see Couret, C. 2769
- Wolf, J.-G. see Escudie, J. 3625
- Wolfe, S., LaJohn, L.A., Bernardi, F., Mangini, A. and Tonachini, G. D-orbital effects and the structure of the alpha-thiocarbonion, 3789
- Wolfe, S., Stolow, A. and LaJohn, L.A. A theoretical reexamination of carbanions adjacent to sulf oxide, sulfone and sulfonium centres, 4071
- Wolff, S. see Matlin, A.R. 2961
- Wollenweber, H.-W. see Imoto, M. 4017
- Wolter, A. see Köster, H. 747
- Wolter, A. see Biernat, J. 751
- Wolter, A. and Köster, H. Anthranilic acid: A new coreagent for the deblocking of 2,2,2-trichloroethylphosphate protecting groups, 873
- Wong, H. see Kaneko, T. 5165
- Wong, Y.-F. see Ariel, S. 4333
- Wood, R.D. and Ganem, B. A simple solution to the oxazole problem in virginiamycin *M*, 4391
- Woodgate, P.D. see Cambie, R.C. 2319
- Woods, M. see Mrozik, H. 5333
- Worley, S.D. see McManus, S.P. 557
- Wózniak, W. see Jończyk, A. 1065
- Wren, B.W. see Symons, M.C.R. 2315
- Wright, A.E., Wing, R.M. and Sims, J.J. Poitediene a new metabolite from the marine red alga *Laurencia poitei*, 4649
- Wright, B.B. see Barcus, R.L. 3955
- Wu, H. see Nakamura, H. 4105

- Wu, T.-S. see Mitscher, L.A. 4809
 Wu, T.-S. see McPhail, A.T. 5377
 Wu, X.-M. see Nemoto, H. 4257
 Würthwein, E.-U., Wilhelm, E. und Seitz, B. Reaktionen von 2-Azabutadienen mit Elektrophilen: N-Vinyl-iminium-Salze, 581
 Wydila, J. and Thornton, E.R. Photolysis studies of α -diazoamides. The effect of carboxamide substituents on selectivity ratios, 233
 Wynberg, H. and Smaardijk, A.A. Asymmetric catalysis in carbon-phosphorus bond formation, 5899
 Wysoki, M. see Becker, D. 5505
- Xi, S.-K. see Zhao, Y.-F. 1617
 Xin-Sheng, Y., Ebizuka, Y., Noguchi, H., Kiuchi, F., Itaka, Y., Sankawa, U. and Seto, H. Structure of arnebinol, a new ansa-type monoterpenylbenzenoid with inhibitory effect to prostaglandin biosynthesis, 2407
 Xin-Sheng, Y., Ebizuka, Y., Noguchi, H., Kiuchi, F., Sankawa, U. and Seto, H. Structure of arnebinone, a novel monoterpenylbenzoquinone with inhibitory effect to prostaglandin biosynthesis, 3247
 Xu, Z.H. see Kozikowski, A.P. 1563, 3705
- Yacoby, F. see Shiner, C.S. 5687
 Yagi, H., Thakker, D.R., Ittah, Y., Croisy-Delcey, M. and Jerina, D.M. Synthesis and assignment of absolute configuration to the *trans* 3,4-dihydriodiol and 3,4-diol-1,2-epoxides of benzo[c]phenanthrene, 1349
 Yagisawa, N., Takita, T., Umezawa, H., Kato, K. and Shimada, N. A facile total synthesis of oxanosine, a novel nucleoside antibiotic, 931
 Yagupolskii, Y.L., Savina, T.I., Fit, D.S. and Struchkov, Y.T. Aryl esters of tris(fluorosulphonyl) methane acid form, 87
 Yahata, N. see Ogura, K. 5761
 Yakobson, G.G. see Bardin, V.V. 4875
 Yamada, J. see Uyehara, T. 4445
 Yamada, K. see Niwa, H. 937, 4117, 5371, 5731
 Yamada, K. see Ichikawa, T. 3337
 Yamada, K. see Nakatsuka, S. 5627
 Yamada, M. see Shinkai, S. 3501
 Yamada, T. see Shin, C. 2175
 Yamada, Y. see Kikuchi, H. 1549
 Yamada, Y. see Momose, D. 921, 2669
 Yamada, Y. see Matsunaga, H. 3009
 Yamada, Y. see Tamari, Y. 3869
 Yamada, Y. see Iguchi, K. 4433
 Yamaguchi, H. see Ochiai, M. 777
 Yamaguchi, M. and Hirao, I. An efficient method for the alkynylation of oxiranes using alkynyl boranes, 391
 Yamaguchi, M. and Hirao, I. A synthesis of alkynyl azacycloalkanes by the coupling reaction of alkynyl boranes and lactams, 1719
 Yamaguchi, M., Nobayashi, Y. and Hirao, I. The alkynylation reaction of oxetanes, 5121
 Yamaguchi, M. see Kawanami, Y. 5131
 Yamaguchi, M. see Ito, Y. 5385
 Yamaguchi, R., Nakazono, Y. and Kawanisi, M. On the regioselectivity of the reaction of N-methoxycarbonylpyridinium chloride with Grignard reagents: Highly regioselective synthesis of 2-substituted N-methoxy-carbonyl-1,2-dihydropyridines, 1801
 Yamaguchi, Y. see Kato, T. 4715
 Yamaji, T. see Sato, F. 1041
 Yamakawa, K. see Hisatome, M. 5757
 Yamamoto, H. see Sakane, S. 943
 Yamamoto, H. see Ishida, Y. 3255
 Yamamoto, H. see Ukai, J. 4029
 Yamamoto, H. see Mori, A. 4581
 Yamamoto, H. see Sasatani, S. 4711
 Yamamoto, K. and Tomo, Y. Conversion of 1-alkoxy-2-(trimethylsilyl)-3-hydroxy moiety to olefins in Peterson olefination; an unprecedented stereochemical consequence, 1997
 Yamamoto, T. see Hayashi, T. 5661
 Yamamura, K. see Shizuri, Y. 2577
 Yamamura, S. see Shizuri, Y. 1053, 5011
 Yamamura, S. see Nishiyama, S. 3351
 Yamana, M., Ishihara, T. and Ando, T. A convenient synthesis of 2,2-difluoro enol silyl ethers from chlorodifluoromethyl ketones, 507
 Yamana, M. see Ishihara, T. 5657
 Yamana, Y. see Hirao, T. 1255
 Yamamoto, E., Maruta, E., Kasamatsu, S., Aimi, N. and Sakai, S. Introduction of hydroxyl group at C-14 of indole alkaloids: The partial synthesis of 14 α -hydroxyrauniticine, 3861
 Yamanaka, S. see Kato, T. 4715
 Yamane, T. see Morita, M. 5631
 Yamanouchi, T. see Minami, T. 767
 Yamasaki, Y. see Chatani, N. 5649
 Yamashita, M., Onozuka, J., Tsuchihashi, G. and Ogura, K. A new synthesis of cyclopentanones by the ring expansion of 1-acyl-1-[p-tolyl(or methyl)thio]cyclobutanes, 79
 Yamazaki, M. see Okuyama, E. 3113
 Yamazaki, T. see Hirokami, S. 5237
 Yanagi, Y. see Kunai, A. 4443
 Yanagida, M. see Yashashi, T. 2665
 Yanagida, N. see Asaoka, M. 5127
 Yanagisawa, A. see Suzuki, M. 1187
 Yanagisawa, H., Ando, A., Shiozaki, M. and Hiraoka, T. Synthesis of optically active azetidin-2-ones from L-threonine, 1037
 Yanagiya, M. see Matsuda, F. 1277
 Yashunsky, D.V. see Sviridov, A.F. 4355, 4359
 Yassin, S. see Makiewicz, A. 5395
 Yasuda, H. see Kita, Y. 1273
 Yasui, S. see Nakamura, K. 2001
 Yasui, S., Nakamura, K. and Ohno, A. Reduction by a model of NAD(P)H. 42. Direct evidence for one electron transfer mechanism in the reduction of arene-diazonium salts, 3331
 Yasunami, M., Amemiya, T. and Takase, K. The synthesis of cycloheptaazulenium ion: a new 14 π electron system, 69
 Yasunami, M. see Fujimori, K. 781
 Yates, P. see Macas, T.S. 147
 Yates, P. and Kronis, J.D. The acid-induced decomposition of 7-substituted 3-diazo-2-norbornanones. The structures of the products and their distribution, 2419
 Yates, P. see Kronis, J.D. 2423
 Yeats, C. see Kocienski, P. 3905
 Yeats, R.B. Rearrangements of octalin tosylates absorbed on alumina, Part I. synthesis of a substituted bicyclo[4,4,1]undec-1-ene, 3423
 Yebdri, O. see Texier, F. 189
 Yebdri, O., Henri-Rousseau, O. et Texier, F. Orientation de la cyclo-addition d'oxazolones mésioniques aux alcènes, 369
 Yoakim, C. see Guindon, Y. 2969, 3969
 Yokomatsu, T. see Kano, S. 1813
 Yokoohji, K. see Nagano, T. 3481
 Yokota, K. see Ogoshi, H. 929
 Yokoyama, M. see Hatanaka, Y. 2399

- Yokoyama, M.** see **Imamoto, T.** 5233
Yokoyama, Y. see **Murakami, Y.** 2189
Yokoyama, T. see **Oku, A.** 4699
Yokoyama, T. see **Kato, T.** 4715
Yoneda, S. see **Yoshida, Z.** 3469, 3473
Yoneda, S. see **Matsumura, N.** 3239
Yonemitsu, O. see **Oikawa, Y.** 1987, 3635, 4037
Yonezawa, N. see **Saigo, K.** 5381
Yonezawa, Y. see **Shin, C.** 2175
Yoon, N.M., Park, K.B. and Gyoung, Y.S. Chemoselective reduction of catbonyl compounds with borohydride exchange resin in alcoholic solvents, 5367
Yoon, U.C. see **Brumfield, M.A.** 5567
Yoshida, K. see **Grieco, P.A.** 3807
Yoshida, K. see **Nakatsuka, S.** 5627
Yoshida, Y. see **Hata, S.** 4729
Yoshida, Z., Kawase, T., Awaji, H., Sugimoto, I., Sugimoto, T. and Yoneda, S. Synthesis and properties of ethanediylidene-2,2'-bis(1,3-dithiole), 3469
Yoshida, Z., Kawase, T., Awaji, H. and Yoneda, S. Synthesis and properties of 1,4-butenediylinden-2,2'-bis(1,3-dithiole), 3473
Yoshida, Z., Shibata, M. and Sugimoto, T. A remarkably stable aromatic anion, cyclopent[e]azulene, 4585
Yoshida, Z. see **Tamaru, Y.** 3869
Yoshide, J. see **Trost, B.M.** 4895
Yoshifuji, M., Shima, I., Ando, K. and Inamoto, N. Thermal reactions of (2,4,6-tri-tert-butylphenyl) phosphorous dichloride and its derivatives; formation of 2,3-dihydro-1H-phosphindoles, 933
Yoshifuji, M., Shibayama, K., Toyota, K. and Inamoto, N. Preparation and characterization of sterically protected primary phosphine sulfide and oxide, 4227
Yoshifuji, M. and Inamoto, N. Reaction of a diaryldiphosphene with hexacarbonylchromium(0); formation of (arene) tricarbonylchromium(0) complexes, 4855
Yoshihara, K. see **Schneider, J.A.** 3859
Yoshihashi, M. see **Hisatome, M.**
- 5757
- Yoshikawa, S.** see **Ishii, Y.** 2677
Yoshimoto, K., Taru, M. and Tsuda, Y. A new synthetic method for 1-O-acyl- β -D-glucopyranoses using tri-O-trifluoracetyl-1,6-anhydroglucose. Synthesis of tuliposide-A, 2779
Yoshimura, T. see **Oae, S.** 1265
Yoshino, T. see **Miyahara, Y.** 5277
Young, D., Kitching, W. and Wickham, G. Electrophilic substitution with allylic rearrangement (S_E'). *Syn* or *anti* stereoselectivity in trifluoroacetolysis of 4-alkylcyclohex-2-enylsilanes, -germanes and -stannanes, 5789
Young, D. and Kitching, W. Electrophilic substitution with allylic rearrangement (S_E'). Syn-stereospecificity accompanying sulfur dioxide insertion into 4- and 6-alkylcyclohex-2-enyltrimethylstannanes, 5793
Yuasa, Y. see **Kano, S.** 1813
Yuba, K. see **Saito, I.** 1737, 4439
Yufit, D.S. see **Yagupolskii, Y.L.** 87
Yuki, H. see **Kawada, Y.** 791
Yukizaki, H. see **Fujisawa, T.** 5745
Yurchenko, A.G. see **Klimko, Y.E.** 3259
- Zahra, J.-P.** see **Jellal, A.** 1395
Zahra, J.-P. see **Bertrand, M.** 1967
Zakaria, M. see **Jeffreys, J.A.D.** 1085
Zaks, W.J. see **Markgraf, J.H.** 241
Zamarlik, H. see **Rouessac, F.** 2247
Zamboni, R. and Rokach, J. Synthesis of the aza analog of LTA₄, 331
Zamboni, R. and Rokach, J. Stereospecific synthesis of 5S-HETE, 5R-HETE and their transformation to 5(\pm)HPTE, 999
Zamboni, R., Milette, S. and Rokach, J. The stereospecific synthesis of 14S,15S-oxido 5Z,8Z,10E,12E-eicosatetraenoic acid, 4988
Zamir, L.O., Tiberio, R. and Jensen, R.A. Differential acid-catalyzed aromatization of prephenate, arogenate, and spiroarogenate, 2815
Zamir, L.O. see **Luthe, C.** 4409
Zanardi, G. see **Leardini, R.** 3381
Zard, S.Z. see **Barton, D.H.R.** 5227
- Zayas, J. and Platz, M.S.** The chemistry of diphenylcarbene in polycrystalline (S)-2-butanol. The formation of an enantioselectively pure product of radical-radical coupling, 3689
Zbiral, E. see **Schönauer, K.** 573
Zbiral, E. see **Öhler, E.** 5599
Zefirov, N.S., Samoshin, V.V. and Zemlyanova, T.G. The influence of remote substituents on the reactivity of the cyclohexene double bond, 5133
Zelinsky, N.D. see **Sviridov, A.F.** 4355, 4359
Zemlyanova, T.G. see **Zefirov, N.S.** 5133
Zenk, M.H. see **Rueffler, M.** 2643
Zenki, S. see **Murahashi, S.** 1049
Zhao, Y.-F., Xi, S.-K., Tian, Y.-F. and Song, A.-T. Intramolecular condensation of N-homopiperonyl-N-dialkylphosphoryl glycine under the catalysis of lewis acid, 1617
Zhichen, Z., Carrupt, P.-A. and Vogel, P. The circular dichroism of 2,3-dimethylidene-5-norbornyl derivatives, 3607
Zhong, S. see **Jeffreys, J.A.D.** 1085
Ziegler, F.E. and Mencel, J.J. Application of dithianylidene anions to the synthesis of de-AB-8-carbomethoxycholestan-9-one: A steroid and vitamin D synthon, 1859
Zimmermann, G. see **Kopinke, F.D.** 869
Zimmermann, R. see **Solladie, G.** 755
Zimmermann, R. see **Appel, R.** 3591
Zippelius, M.F., Krieger, C. and Staab, H.A. $\pi \dots \pi$ -interactions of flavins: Synthesis and molecular structure of a valvinocyclophane, 1925
Zirotti, C. see **Fuganti, C.** 3753, 5285
Zollo, P.H.A. see **Lancelin, J.-M.** 4833
Zoran, A. see **Blum, J.** 4139
Zoretic, P.A., Bhakta, C. and Khan, R.H. Total synthesis of d,l-megaphone, 1125
Zuber, J.A. see **Jefford, C.W.** 181
Zuliani, L. see **Mongelli, N.** 3527
Zwanenburg, B. see **Porskamp, P.A.T.W.** 2035