

# Author Index 1986

**Abad A., Agullo C., Arno M., Domingo L.R. and Zaragoza R.J.** An approach to erythrophleum alkaloids. Synthesis of methyl(-)-4-epi-cassamate, 3289

**Abarca B., Ballesteros R., Jones G. and Mojarrad F.** Nucleophilic substitutions on bromotriazolo-pyridines - an improved route to 2,6-disubstituted pyridines and to 1,3-disubstituted isoquinolines, 3543

**Abarca B., Asensio G., Ballesteros R. and Luna C.** Tris(2-thienyl)methyl cation: an unprecedent  $^{13}\text{C}$  NMR behavior, 5657

**Abd El Sami Z.K.M., Al Ashmawy M.I. and Mellor J.M.** Regioselective hydroxysulphenylation of derivatives of allylic alcohols and amines, 5289

**Abd El Sami Z.K.M., Al Ashmawy M.I. and Mellor J.M.** Trifluoroacetoxy-sulphenylation of unsaturated nitriles as a route to lactones, 5293

**Abdel-Sayed A.N. and Bauer L.** Polarization transfer via long range coupling as a simple one-dimensional NMR technique for  $^1\text{H}$ - $^{13}\text{C}$  correlation. Application to the definitive assignment of the syn and anti  $^{13}\text{C}$  & resonance of 2-substituted adamantanes, 1003

**Abed O.H** see Isaacs N.S. 1209, 995

**Abel K** see Kauffmann T. 5351

**Abel T** see Kauffmann T. 5355

**Abeles R.H** see Imperiali B. 135

**Abell K.W.Y. and Kirby A.J.**

Acceleration of P-O cleavage reactions of phosphate monoester dianions in dipolar aprotic solvents, 1085

**Abeywickrama A.N. and Beckwith A.L.J.** Homolytic reductive dehalogenation of aryl halides by sodium borohydride, 109

**Abidi S.L.** Ethyldyne alkynes from isopropylidene olefins, 267

**Abiko A., Roberts J.C., Takemasa T. and Masamune S.** KMnO<sub>4</sub> revisited: Oxidation of aldehydes to carboxylic acids in the tert-butyl alcohol - aqueous NaH<sub>2</sub>PO<sub>4</sub> system, 4537

**Abla M.A** see Ferraz H.M.C. 811

**Ablenas F.J** see Fletcher D. 4853

**Abramovitch R.A., Cooper M.M., Jeyaraman R. and Rusek G.** Remote intramolecular functionalization of aryl-nitrenium ions: synthesis of amino-dihydrophenanthridines and benzo[*c*]chromans, 3705

**Abu-Aqil M.S** see Fataftah Z.A. 4067

**Achiwa K** see Aono M. 4039, see

Takahashi H. 4477, see Takahashi T. 1819

**Action E.M., Ryan K.J., Tracy M. and Arora S.K.** Synthesis of anthracycline C-glycosyl isosteres, 4245

**Adam W., Griesbeck A. and Staab E.** A convenient "one-pot" synthesis of epoxy alcohols via photo-oxygenation of olefins in the presence of titanium(IV) catalyst, 2839

**Adam W., Kliem U. and Lucchini V.** Preparative UV-VIS laser photochemistry: molecular oxygen trapping of the Paterno-Büchi triplet diradicals derived from 1,4-dioxene, 2953

**Adam W. and Crämer E.** Transannular ring expansion of the spirocyclopropane moiety in the acid catalyzed rearrangement of oxiranes derived from norbornene and bicyclo[2.2.2]octene, 3361

**Adams J. and Bellley M.** Formation of reactive tricyclic intermediates via the intramolecular cyclopropanation of dihydropyrans. Synthesis of eucalyptol, 2075

**Addess K.J** see Ciaccio J.A. 3697

**Adelbayo A.T.O.M., Bowman W.R. and Salt W.G.** S RNL and oxidative addition reactions of nitro-imidazole anions, 1943

**Adlington R.M** see Baldwin S.J.E. 5423

**Afonso A** see McCombie S.W. 305

**Aga M., Okada K. and Oda M.** Position and dienophile dependent Diels-Alder reactions of vinylcycloheptatrienes, 5653

**Agami C., Puchot C. and Sevestre H.** Is the mechanism of the proline-catalyzed enantioselective aldol reaction related to biochemical processes?, 1501

**Agarwal K** see Katti S.B. 5327

**Agarwal S.K., Boyd D.R., Porter H.P., Jennings W.B., Grossman S.J. and Jerina D.M.** Arene oxides and

trans-dihydrodiols of quinoline, 4253

**Agathocleous P., Cox G. and Page M.I.** Stereochemistry and ring opening of a carbocyclic analogue of a 1-oxapenam, 1631

**Agawa T** see Hirao T. 933, 929

**Aggarwal V.K. and Warren S.** Phenylthio(PhS) migration in the stereocontrolled synthesis of allylic alcohols with 1,4 related chiral centres, 101

**Agrawal S** see Christodoulou C. 1521

**Agullo C** see Abad A. 3289

**Ahmad S. and Iqbal J.** Cobalt (II) chloride catalysed coupling of thiols and anhydrides: a new and efficient synthesis of thiol esters, 3791

**Ahn S.H., Kim D., Chun M.W. and Chung W.-K.** Highly stereoselective intramolecular alkylation of ester enolate: an approach to trans-hydrindane system, 943

**Aida T** see Harpp D.N. 441

**Aimi** see Sakai S. 5219, 4585

**Aitken D.J., Rees L., Suckling C.J. and Wood H.C.S.** Novel reactivity of 2-(chloromethoxyethyl) acetate, 3417

**Aizpurua J.M., Cossío F.P., Lecea B. and Palomo C.** Erratum, 5666

**Aizpurua J.M., Cossío F.P., Lecea B. and Palomo C.** New stereochemical outcomes in the cycloaddition of cinnamylideneamines: a concise new approach to 4-acetoxy-azetidin-2-ones, 4359

**Akai S** see Tamura Y. 195

**Akasaki T** see Ando W. 4473

**Akermark B** see Connell R. 5559

**Akhila A., Sharma P.K. and Thakur R.S.** A novel biosynthesis of irregular sesquiterpene artemone in *Artemisia pallens*, 5885

**Akhtar M** see Stevenson D.E. 5661

**Akiba K** see Okata K. 3257, see Wada M. 4771

**Akiba K., Sakaguchi A. and Yamamoto Y.** Formation of 2-oxa-8,9-diaza-bicyclo[3.3.1]nona-3,6-diene derivatives from pyrimidine: utility for tetrahydropyrimidine synthesis, 5651

**Akiba K., Okada K. and Okata K.** Formation of ammoniophosphorphanes by transannular interaction in

- dibenzo[c,f] [1,5]azaphosphocine system, 5221
- Akita H., Matsukura H. and Oishi T.** Determination of absolute structure of (-)-oudemansin B, 5397
- Akita H., Matsukura H. and Oishi T.** Lipase catalyzed enantioselective hydrolysis of 2-methyl 3-acetoxy esters, 5241
- Akkerman O.S.** see van de Heisteeg B.J.J. 6123
- Akoka S** see Martin G.J. 2855
- Akkira M** see Canonne P. 2001
- Akut P.M** see Nadkarni S.R. 5265
- Al Ashmawy M.I** see Abd El Sami Z.K.M. 5293, 5289
- Al Dilaimi A** see Graff M. 1577
- Al-Bayati R** see Peiter A. 749
- Alam M** see Linz G.S. 4833
- Alami M** see Cahiez G. 569
- Alazard J.-P. and Thal C.** Photo-oxidation d'un amiodiène et d'amino-diène-boranes, 1319
- Alberola A., González A.M., González B., Laguna M.A. and Pulido F.J.** Synthesis of Z-β-siloxy-acrylonitriles and study of their dienophilic properties, 2027
- Albini F.M.** see Corsaro A. 1517
- Albrecht P** see Verne-Mismer J. 5257
- Alcaide B., Pérez-Ossorio R., Plumet J. and Sierra M.A.** On the reaction of phenylglyoxal with 2-aminopyridine, 1627
- Alcaide B., Pérez-Ossorio R., Plumet J., Rico M. and Rodriguez-Campos I.M.** Reaction of α-diketones with ethanolamine, 1381
- Alcaide B., López-Mardomingo C., Pérez-Ossorio R., Plumet J. and Rodríguez-López J.** Regio-controlled addition in the reaction of N-(α-methoxyphenacyl)anilines with methyl lithiocobutrate, 5129
- Alcaide B., García-Blanco S., García-González M.T., Martínez-Carrera S., Pérez-Ossorio R., Plumet J. and Rodríguez-Campos I.M.** Revision of the structure of a reaction product from butanedione and ethanolamine, 4217
- Aldersley M.F., Dean F.M. and Hassah A.S.** Derivatives of naphtho[2,3-c]pyran-5,10-dione; a simple synthesis and a note of their chromogenic properties, 255
- Alewood P.F.** see Johns R.B. 4791, see Perich J.W. 1373
- Alexakis A** see Mangeney P. 3143, see Marek I. 5499
- Alexakis A., Berlan J. and Besace Y.** Organocupper conjugate addition reaction in the presence of trimethylchlorosilane, 1047
- Ali A.R.M** see Goh S.H. 2501
- Ali H** see Gedye R. 279
- Allen R** see Gassman P.G. 6307
- Allred E.L** see Sanders C.G. 3231
- Alo B.I** see Green J.R. 535
- Alonso D** see Ortuno R.M. 1079
- Alonso R., Castedo L. and Domínguez D.** An approach to the total synthesis of ribasine alkaloids, 3539
- Alonso-López M., Martín-Lomas M. and Penadés S.** Asymmetric Michael reaction using macrocyclic lactose derivatives as chiral catalysts, 3551
- Alpegiani M** see Hanessian S. 4857
- Alpegiani M., Bedeschi A., Perrone E. and Franceschi G.** 2-Selenacephems and 1-dethia-1-selenapenems, 3041
- Alper H** see Calet S. 2739, 3573
- Alper H., Kwiatkowska C., Petrigiani J.-F. and Sibtain F.** An exceptionally mild, phase transfer catalyzed method for the conversion of thiocarbonyl compounds to carbonyls, 5449
- Altentbach H.-J. and Soecke H.** Phosphor- und schwefel-substituierte Allene - IV. Eine einfache Synthese von 2[5H]-Furanonen und β-Methylen-γ-butyrolactonen durch Addition von Malonsäureester an Allen-sulfoxide, 1561
- Alvergne G** see Haufe G. 4449
- Amick T.J. and Shechter H.** Carbenic reactions of 4-diazo-4H-imidazole with benzene derivatives, 901
- Amouroux R** see Stambouli A. 4149
- Amouroux R., Ejjiyar S. and Chastrette M.** Diastereosélectivité dans la réaction des organomagnésiens sur le tétra-hydrofurul et son gem-diacétate en présence de HMPT. Accès aux diols-1,2 éthyroïte, 1035
- Amri H. and Villiers J.** Hydroxy-alkylation de la methylvinyl-cétone et de l'acrylonitrile en présence de diaza-1,4 bicyclo[2.2.2]octane, 4307
- An S.-H. and Bobek M.** Methyl 3,4-dioxy-2-deoxy-2(R)-[1H,3R-2,4-dioxo-1-pyrimidinyl]-2-fluoro-β-D-arabinopyranoside: novel nucleoside analogues via condensation of gem-2,2-difluoro methyl glycosides with silylated heterocyclic bases, 3219
- Añorbe B** see Palazón J.M. 4987
- Añorbe B., Martín V.S., Palazón J.M. and Trujillo J.M.** Enantiomeric synthesis of 6(R), 7(R) and 6(S), 7(S) trans- and cis-laureolidol, 4991
- Ancillotti M** see Ricci A. 5985
- Andermann G** see Huber D. 5731
- Anderson C.L** see Soderquist J.A. 3961
- Anderson D.A** see Hwu J.R. 4965
- Anderson J.E. and Bettels B.R.** Rotation of geminal isopropyl groups. Dynamic N.M.R. of dimethyl-disopropyl cyclopropane, 3909
- Andersson F., Fügedi P., Gregg P.J. and Nashed M.** Synthesis of 1,2-cis-linked glycosides using dimethyl(methylthio)sulfonium triflate as promoter and thioglycosides as glycosyl donors, 3919
- Ando K** see Tomioka K. 715
- Ando M** see Horie K. 4615, see Iyoda T. 5633, see Sakurai H. 75
- Ando T** see Ishihara T. 2879, 357
- Ando W** see Furuhata T. 4035, see Takata T. 1591
- Ando W. and Huang L.** Asymmetric induction to sulfur atom: stereocontrolled S-oxidation of thiazolidines, 3391
- Ando W., Hayakawa H. and Tokitoh N.** Oxidation of 1,2,3-butatrienes: a facile formation of methylenecyclopropanes and their subsequent photodecarbonylation, 6357
- Ando W., Kumamoto Y. and Tokitoh N.** Photolysis of sterically protected bicyclic 1,2,3-selenadiazole, 6107
- Ando W., Tsumuraya T. and Goto M.** Reaction of germylene with thionketenes: synthesis of alkylidenedigermithianes, 5105
- Ando W. and Saso H.** Reaction of silylene with alenes: alkylidenesilacyclopropanes and silatrimethylenemethane, 5625
- Ando W., Sonobe H. and Akasaka T.** Reaction of singlet oxygen with thirane: implication for a spirodioxathirane intermediate, 4473
- Ando W. and Tsumuraya T.** Synthesis of germathiranes, 3251
- Andreini B.P., Carpita A. and Rossi R.** Diastereoselective synthesis of (E)-1-trimethylsilyl-3-en-1-yne by palladium-catalyzed cross-coupling reaction between trimethylsilyl ethynyl zinc chloride and stereoisomeric mixtures of 1-bromo-1-alkenes, 5533
- Andreoli P., Cainelli G., Contento M., Giacomini D., Martelli G. and Panunzio M.** A synthetic approach to azetidinones from nitriles and lithium triethoxyaluminium hydride, 1695
- Andrews S.S.** see Phillion D.P. 1477
- Andrews R.C** see Marshall J.A. 5197
- Andrews S.W** see Molander G.A. 3115
- Andrianialisoa R.Z. and Langlois N.** Synthèse des néothramycines, 1149
- Angle S.R** see Trost B.M. 1445
- Arnker K** see Jurczak J. 1711
- Armoura H** see Tamura Y. 81, 2117
- Antonakis K** see Bessodes M. 579
- Aono M., Hyodo C., Terao Y. and Achiwa K.** Generation of thiocarbonyl ylides with release of disiloxane from bis(trimethylsilylmethyl) sulfoxides, 4039
- Aoyama H** see Sakamoto M. 1335
- Aoyama T** see Mori S. 6111
- Aoyama T. and Shioiri T.** New methods and reagents in organic synthesis. 62 trimethylsilyl-diazomethane: a convenient reagent for the preparation of acylsilanes, 2005
- Aoyama Y** see Ogoshi H. 6365
- Apelöig Y., Karni M., Stang P.J. and Christensen S.B.** The selectivity of isopropylidene carbene, 6115
- Appel R** see Papadopoulos K. 3491
- Appel R., Fölling P., Schuh W. and Knobf F.** 1,3-Diphospho-1,3-butadiene, 1661
- ApSimon J.W** see Young J.C. 1019
- Arai H** see Nishiyama H. 1599, 361, see Tamao K. 3377
- Arai I** see Ishihara K. 983
- Arai M** see Kinoshita M. 1815, 1811
- Araki T** see Watanabe Y. 5385, 215
- Arcadi A., Cacci S. and Marinelli F.** Palladium-catalysed reductive addition of aryl iodides to aryl and alkylethynylsilanes: a stereo and regioselective route to functionalized 2,2-disubstituted vinylsilanes, 6397
- Arca S** see Guirado A. 4063
- Archer S** see Ross B.S. 5343
- Arenz T** see Bestmann H.J. 1995
- Argade A.B., Mehendale A.R. and Ayyangar N.R.** Marschalk reaction approach for a simple synthesis of (±)-4-demethoxydaunomycinone, 3529
- Argade N.P** see Balasubramanyan V. 2487
- Argyropoulos J.N** see Ashby E.C. 465
- Ariel S., Askari S.H., Scheffer J.R. and Trotter J.** Cyclopropanol formation via β-hydrogen atom abstraction: the five membered transition state analogue of the Norrish type II reaction, 783
- Arjona O., de la Pradilla R.F., Pérez S., Plumet J., Carrupt P.-A. and Vogel P.** Chemo- and stereo-selective functionalization of 7-oxabicyclo[2.2.1]hept-5-en-2-one with dichloroketene, 5505
- Armetto D., Horspool W.M., Ortiz M.J., Perez-Ossorio R. and Romano S.** The novel photochemical 1,4-addition of azadienol esters to cyclo-octa-1,3-diene, 3293
- Amistead D.M** see Burke S.D. 6295
- Arno M** see Abad A. 3289
- Arnold K.A** see Gatto V.J. 327
- Arora S.K** see Acton E.M. 4245

- Arseniyadis S** see Heathcock C.H. 770
- Arya F., Bouquant J. and Chuche J.** Preparation of 3-azabicyclo [3.2.0] heptenes by intramolecular [2+2] cycloaddition, 1913
- Arzoumanian H. and Petrignani J.-F.** Solid-liquid phase transfer and cobalt catalyzed synthesis of but-2-enolide, 5979
- Asano O** see Nakatsuka S. 4327
- Aso T** see Morita N. 3873
- Asato A.E. and Liu R.S.H.** The preparation of vicinal difluorocyclic carbonyl compounds and their application to the synthesis of difluororetinal analogs, 3337
- Asensio G** see Abarca B. 5657, see Barluenga J. 1715, 3303
- Ashby E.C. and Argyropoulos J.N.** Evidence for a single electron transfer mechanism in the reduction of benzophenone with lithium alkoxides, 465
- Ashizawa M** see Nakazawa T. 3005
- Asirvatham E** see Posner G.H. 659, 663
- Askari S.H** see Ariel S. 783
- Aso Y** see Hu N.X. 6099, see Miyamoto H. 2011
- Asserq J.-M** see Welch S.C. 1115
- Atkins R.K., Frazier J., Moore L.L. and Weigel L.O.** Alkylation of N-trimethylsilylated primary amines with arylethylen oxide. An efficient synthesis of 1-phrmetanolamines, 2451
- Atmani A. and Kajima M.** Fused azetidinones from 2-keto-dihydropyrimidines, 2611
- Aubert F** see Perrin P. 6193
- Auvray P., Knochel P. and Normant J.F.** An easy synthesis of the 2-phenylsulfonyl-substituted allylic bromides and acetates and their reactivity towards nucleophiles, 5095
- Auvray P., Knochel P. and Normant J.F.** Diastereoselective addition of the 2-phenylsulfonyl-substituted allylic bromides to aldehydes in the presence of zinc or chromium (II) chloride, 5091
- Averina N.V** see Kas'jan L.A. 2921
- Axenrod T., Huang X.H. and Watnick C.** Substituent effects on  $^{13}\text{C}$ - $^{15}\text{N}$  spin couplings and  $^{13}\text{C}$  chemical shifts in benzenediazonium ions, 11
- Ayyangar N.R** see Argade A.B. 3529
- Azerad R** see Buisson D. 4453, 2631
- Baar M.R., Ballesteros P. and Roberts B.W.** Interception of [2+2] cycloadducts in the zinc bromide mediated reaction of di-tert-butyl methylenemalonate with simple enol ethers, 2083
- Baba A** see Shibata I. 3021
- Baba A., Fujiwara M. and Matsuda H.** Unusual cycloaddition of oxiranes with isocyanates catalyzed by tetraphenylstibonium iodide; selective formation of 3,4-disubstituted oxazolidinones, 77
- Babine R.** Asymmetric epoxidation of vinyl carbinol: a new approach to the synthesis of 2,6-dideoxyhexoses, 5791
- Babu J.R. and Bhatt M.V.** New reagents IV. Reduction of sulphonyl chlorides and sulfoxides with aluminium iodide, 1073
- Bach R.D., Tubergen M.W. and Klix R.C.** Lewis acid catalyzed rearrangements of structurally related  $\alpha,\beta$ -unsaturated epoxy ketones and oximes. A complementary approach to the synthesis of isomeric 1,4-diketo-spiro[n,m] alkanes, 3565
- Bach R.D. and Klix R.C.** Model studies aimed at the synthesis of fredericamycin A. A simple O-quinodimethane route to the spiro naphthalene portion, 1983
- Bachi M.D. and Bosch E.** Synthesis of  $\alpha$ -alkylidene- $\gamma$ -lactones by intramolecular addition of alkoxy-carbonyl free-radicals to acetylenes, 641
- Baciocchi E., Dell'Aira D. and Ruzziconi R.** Dimethyl aryl-malonates from cerium(IV) ammonium nitrate promoted reactions of dimethyl malonate with aromatic compounds in methanol, 2763
- Back T.G., Proudfoot J.R. and Djerasi C.** Application of selenosulfonation to marine sterol synthesis. Preparation of 24,28-dehydroaplysterol, xestosterol and ostreasterol from a common acetylenic intermediate, 2187
- Badia M.C** see Karanewsky D.S. 1751
- Baez A** see Cerwick W.H. 1979
- Bagby B** see Saha M. 915
- Bailey T.R.** Unsymmetrical heterobiaryl synthesis. A highly efficient palladium-catalyzed cross-coupling reaction of heteroaryl trialkylstananes with aryl halides, 4407
- Bailey W.F., Patricia J.J., Nurmi T.T. and Wang W.** Metal-halogen interchange between  $t$ -butyllithium and 1-iodo-5-hexenes provides no evidence for single-electron transfer, 1861
- Bailey W.F., Patricia J.J. and Nurmi T.T.** Reactions of 1-halo-5-hexenes with alkylolithiums. Evidence for a pronounced halogen effect on the mechanism of the metal-halogen interchange reaction of primary alkyl halides, 1865
- Bacicchi L. and Picconi G.** On the isomerization of dialkyl indazolones to dohydro-quinazolinones, 5255
- Baird M.S. and Jefferies I.** Labelling studies of the formation of cyclopentadienes from the reaction of 1,1-dibromo-2-vinylcyclopropanes with methyl lithium, 2493
- Baird M.S. and Hussain H.H.** The regioselective oxidation of 1-trimethylsilylcyclopropanes to  $\alpha$ -trimethylsilyl- $\alpha,\beta$ -unsaturated ketones, 5143
- Baker R., O'Mahony M.J. and Swain C.J.** A formal synthesis of (+)-milbemycin  $\beta_1$ : a Wittig approach, 3059
- Baker R. and Brimble M.A.** Synthesis of two key intermediates required for the construction of the bis-spiroacetal moiety of epi-17-deoxy-(O- $\beta$ -D-glucopyranosyl)-17-salinomycin, 3311
- Baklan V.F** see Yurchenko A.G. 1399
- Balachander N., Wang S.-S. and Sukenik C.N.** The reaction of LiAlH<sub>4</sub>/MPA with oximes: mechanism and synthetic applications, 4849
- Balakrishnan P** see Baumstark A.L. 3079
- Balasubramanian K.K** see Rajamannar T. 3777
- Balavoine G** see Guibe F. 2365
- Balavoine G., Barton D.H.R., Boivin J., Gref A., Ozbalik N. and Rivière H.** Selective oxidation of saturated hydrocarbons using an electrochemical modification of the gif system, 2849
- Baldisera L** see Gedye R. 279
- Baldwin J.E., Lowe C., Schofield C.J. and Lee E.** A  $\gamma$ -lactam analogue of penems possessing antibacterial activity, 3461
- Baldwin J.E., Lowe C., Schofield C.J. and Lee E.** Erratum, 5042
- Baldwin J.E., Adlington R.M. and Sweeney J.B.** Improved synthesis of  $\alpha$ -methylene- $\gamma$ -lactones via organotin reagents, 5423
- Baldwin R.M** see Kabalka G.W. 3843
- Baldwin S.W. and Mazzuckelli T.J.** Face selectivity in the [2+2]-photoannulation of chiral 3(2H)-furanones with alkenes, 5975
- Balkovec J.M** see Trost B.M. 1445
- Ballesteros P** see Baar M.R. 2083
- Ballesteros R** see Abarca B. 3543, 5657
- Ballistreri F.P., Failla S., Tomaselli G.A. and Curci R.** A new facile synthesis of  $\alpha$ -dicarbonyl compounds by oxidation of alkynes with Mo(VI) peroxocomplex promoted by mercuric acetate, 5139
- Balme G., Fournet G. and Gore J.** Carbopalladation des alkylidene-cyclopropanes. Obtention de dienes-1,3 et de styrenes fonctionnalisés, 3855
- Balme G., Fournet G. and Gore J.** Reaction du trimethyl chlorosilane avec les alcools  $\alpha$ -cyclopropaniques en présence ou en l'absence d'halogénures de lithium, 1907
- Balsubramanian V. and Argade N.P.** Reactions of cyclic anhydrides XI. A facile approach to pyrrole-3,1-benzoxazinones via anilic acids, 2487
- Balmer M.P., Singh G., Ila H. and Junjappa H.** Cycloaromatization of  $\alpha$ -oxeketendithiopacetals with benzylmagnesium chloride: a novel naphthalene annelation reaction, 117
- Ban Y** see Ohnuma T. 219, see Wakamatsu T. 6071, 3895
- Banaszek A** see Garcia J. 639
- Bandiera T** see Corsaro A. 1517
- Barfi L** see Guanti G. 3547, 4639
- Banno K., Tanaka T., Okamura N., Hazato A., Sugiyama S., Manabe K., Tomimori K. and Kurozumi S.** Improved synthesis of isocarbacyclin using regioselective alkylation of allylic alcohols, 6353
- Banoub J., Boullanger P., Potier M. and Descoates G.** An efficient and stereoselective synthesis of 3,4,6-tri-O-acetyl- $\alpha$ -D-glucopyranose 1,2-[exo-alkyl ortho-acetates], 4145
- Bansal H.S** see Pearson A.J. 287, 283
- Baran J.S** see Hanson G.J. 3577
- Baranyai M** see Parkes K.E.B. 2535
- Baratti J** see Langrand G. 29
- Barba F** see Guirado A. 4063
- Barcelo G** see Sennvey G. 5375
- Barili P.L., Bertì G., Catelani G., Colonna F. and Marra A.** New results in the isopropylidenation of galactopyranosides. Useful intermediates for the synthesis of galactose derivatives, 2307
- Barluenga J., González J.M., Campos P.J. and Asensio G.** A new and versatile method for iodo-functionalization of 1,3-dienes, 1715
- Barluenga J., Rodríguez M.A., González J.M., Campos P.J. and Asensio G.** A new electrophilic addition to acetylenes. Synthesis of 1,2-iodofunctionalized olefins, 3303

- Barracough P., Iyer R., Lindon J.C. and Williams J.M.** An adventitious synthesis of a 5-methyl-imidazo[4,5-c]pyridine derivative, 5997
- Barrans J** see Diallo O. 2971
- Barre G., Hocquaux M., Jacquet B., de Min M., Maurette M.T. and Oliveros E.** Differentiation entre les dihydroxy-2,5 et -3,5 naphto-quinones-1,4 par resonance magnetique nucleaire du  $^{13}\text{C}$  et  $^1\text{H}$ , et heteronucleaire a deux dimensions, 6197
- Barrett A.G.M. and Capps N.K.** Synthetic approaches to the avermeteins: studies on the hexahydrobenzofuran unit, 5571
- Barrett A.G.M. and Sturges M.A.** [2+2] Cycloaddition reactions of cationic iron vinylidene complexes, 3811
- Barth J** see Kolb M. 1579
- Bartmann W., Beck G., Granzer E., Jendralla H., Kerekjarto B.v. and Wess G.** Convenient two-step stereospecific hydroxy-substitution with retention in 8-hydroxy- $\delta$ -lactones, 4 ( $R$ )-hetero substituted mevinolin and -analog, 4709
- Bartmess J.E., Kester J., Borden W.T. and Koser H.G.** Triphenylcyclopropenide anion in the gas phase, 5931
- Barton D.H.R.** see Balavoine G. 2849, see Castagnino E. 6337
- Barton D.H.R., Finet J.-P., Khamsi J. and Pichon C.** Copper catalyzed O-phenylation of phenols and enols by pentavalent organobismuth compounds, 3619
- Barton D.H.R., Finet J.-P. and Khamsi J.** Metallic copper catalysis of N-arylation of amines by triaryl-bismuth diacylates, 3615
- Barton D.H.R., Garcia B., Togo H. and Zard S.Z.** Radical decarboxylative addition onto protonated heteroaromatic (and related) compounds, 1327
- Barton D.H.R., Bridon D. and Zard S.Z.** Radical decarboxylative phosphorylation of carboxylic acids, 4309
- Bartrolí J** see Evans D.A. 4957
- Basak A. and Dugas H.** Design and synthesis of DNA intercalating crown ether molecules, 3
- Basavaiah D. and Gowriswari V.V.L.** A simple synthesis of  $\alpha$ -methylene- $\beta$ -hydroxykanones, 2031
- Bashir-Hashemi A** see Demir A.S. 5567
- Bashyal B.P., Chow H.-F. and Fleet G.W.J.** Enantiospecific synthesis of 2S,3R,4R,5S-trihydroxy-pipeolic acid, 2R,3R,4R,5S-trihydroxy-pipeolic acid, 2S,4S,5S-dihydroxy-pipeolic acid, and bulgecinine from D-glucuronolactone, 3205
- Basu B** see Bhattacharyya S. 5303
- Bata A** see Poppe L. 5769
- Bates A.D.** see Jones R.C.F. 5285
- Bates G.S.** see Fryzuk M.D. 1537
- Bateson J.H., Feil S.C.M. and Southgate R.** Synthesis of the 3-acetoxy-7-oxo-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylate system, 6001
- Batta G** see Somsá L. 5877
- Battioni J.-P** see Lavallee D.K. 3521
- Battiste M.A. and Coxon J.M.** A reinterpretation: evidence for the exclusion of corner brominated cyclopropane in the bromination of trans-cyclopropane-1,1,2,3-d., 517
- Battistini C., Scarafiele C., Vioglio S., Perrone E. and Franceschi G.** A new reductive acylation of azetidinone disulphide in the route to penems, 513
- Baudin J.-B. and Julia S.A.** Synthesis of indoles from N-aryl-1-alkenylsulphinamides, 837
- Baudy-Floc'h M** see Legrel P. 5509
- Bauer L** see Abdel-Sayed A.N. 1003
- Baum G** see Hartke K. 2743
- Baumstark A.L., Balakrishnan P. and Boykin D.W.**  $^{13}\text{C}$  NMR spectroscopic study of steric hindrance in phthalic anhydrides and phthalides, 3079
- Baxter E.W.** see Sundberg R.J. 2687
- Baxter H.N** see Skell P.S. 5181
- Bazbouz A** see Cristau H.-J. 2965
- Baze M.E.** see Ennis M.D. 6031
- Beak P. and Burg D.A.** An anionic 3+2 cyclization-elimination route to cyclopentenes, 5911
- Beale M.H., Macmillan J. and Makinson I.K.** An efficient synthesis of 2-hydroxy-gibberellins, 1109
- Beau J.-M** see Lesimple P. 6201
- Beaucourt J.P** see Perrin P. 6193
- Beaulieu P** see Hanessian S. 5071
- Beccalli E.M., Marchesini A. and Molinari H.** The Vilsmeyer-Haack reaction with 3,4-disubstituted isoxazolin-5-ones. A new synthesis of 1,3-oxazin-6-ones and 1,3-oxazine-2,6-diones, 627
- Beck A., Knothe L., Hunkler D., Prinzbach H. and Rihs G.** "Heptahendecafulvalene" Synthesis - X-ray structure analysis - cycloaddition reactions ([18+2]), 485
- Beck G** see Bartmann W. 4709
- Becker A.M., Irvine R.W., McCormick A.S., Russell R.A. and Warrener R.N.** A new route to 3-hydroxy-phthalides: application to the synthesis of racemic [ $5-13\text{C}$ ] daunomycinone, 3431
- Becker D. and Haddad N.** About the stereochemistry of intramolecular [2+2] photocycloadditions, 6393
- Becker D., Gottlieb L. and Loewenthal H.J.-E.** Ring opening of 3'-methoxy-acenaphthylene-1,2-dione. Application of  $^{13}\text{C}-2\text{D}$ -inadequate-N.M.R. spectroscopy to structure assignment of some substituted naphthalenes, 3775
- Becker S** see Vandresse R. 3517
- Beckmann E** see Fischer G. 1273
- Beckwith A.L.J.** see Abeywickrema A.N. 109
- Beckwith A.L.J. and O'Shea D.M.** Kinetics and mechanism of some vinyl radical cyclisations, 4525
- Beddoes S.E.** see Houghton J.D. 4655
- Bedeschii A** see Alipagiani M. 3041
- Bednarski M.D., Waldmann H.J. and Whitesides G.M.** Aldolase-catalyzed synthesis of complex C<sub>a</sub> and C<sub>b</sub> monosaccharides, 5807
- Beeson C** see Hellberg L.H. 3955
- Beetz T. and van Boekel C.A.A.** Synthesis of an antithrombin binding heparin-like pentasaccharide lacking 6-O sulphate at its reducing end, 5889
- Behforouz M., Curran T.T. and Bolan J.L.** Regiospecific addition of organocupper reagents to  $\alpha,\beta$ -unsaturated esters, 3107
- Behr J.-P.** DNA strongly binds to micelles and vesicles containing lipopolymamines or lipointer-calants, 5861
- Beifuss U** see Tietze L.F. 1767
- Beirich C** see Kaufmann T. 5355
- Belli K.H.** Facile selective amidolysis of phenolic benzoates with 1-butanolamine in benzene, 2263
- Bell T.W.** see Ciaccio J.A. 3697
- Bell T.W. and Ciaccio J.A.** Conversion of epoxides to bromohydrins by B-bromobis(dimethyl-amino)borane, 827
- Bellan J., Etemad-Moghadam G., Payard M. and Koenig M.** New method of obtaining a stable diphosphirane, 1145
- Bellassoued M., Dubois J.-E. and Bertounesque E.** Erythro selective cross aldol reaction via  $\alpha$ -silyl trimethylsilyl esters, 2623
- Belleisia F., Gheffi F., Pagnoni U.M. and Pinetti A.** The base-catalyzed cyclization of 10-oxocitral. Synthesis of chrysanthemidinal and dehydroirodiodial, 381
- Belleire J.L. and Fremont S.L.** Oxidative coupling. II. The total synthesis of enterolactone, 127
- Belleire J.L. and Spletzer E.G.** Oxidative coupling. III. The DUOC reaction, 131
- Belle M** see Adams J. 2075
- Belzner J. and Szeimies G.** Thermal rearrangement of some [1.1.1]-propellanes, 5839
- Ben Salem R. and Jenner G.** Mechanism of the (O---H---O) hydrogen transfer in ene reactions, 1575
- Ben-David Y** see Ghera E. 3935
- Benati L., Monteverechi P.C. and Spagnolo P.**  $^{11}\text{N}$ -Nitroarene-sulphenanilides: their use in the synthesis of unsymmetrical disulphides, 1739
- Bender S.L** see Evans D.A. 799
- Bentley T.W., Richards D.J. and Hutchings M.G.** Electrochemical oxidative substitution and dimerisation of 1-arylazo-2-naphthols, leading to a new synthesis of some unsymmetrical diarylamines, 5261
- Bergbreiter D.E** see Ludwig J.W. 2731
- Bergh C.L** see Wuts P.G.M. 3995
- Berglund B.A** see Zefirov N.S. 3971
- Bergman J** see Lidgren G. 3283
- Bergman J. and Pelman B.** A new synthesis of 1,2-disubstituted carbazoles. Electrophilic cyanation with Viehe's reagent, 1939
- Bergquist P.R** see Karuso P. 2177
- Berlan J** see Alexakis A. 1047
- Bernath G** see Filóp F. 2517
- Bernardinelli G** see Oppolzer W. 4713, see Sakemi S. 4287
- Berrier C** see Bissect P. 4731
- Berrier C., Jacques J.-L., Jouannetaud M.-P. and Renoux A.** Hydroxylation of indolines and indoles by hydrogen peroxide in superacids, 4565
- Berry N.M., Darey M.C.P. and Harwood L.M.** Photo-chemical 2-alkylation of cyclohexane-1,3-diones with enol ethers, 2319
- Bertaina C** see Lemaire F. 5847
- Bertiaume G** see Lavallée J.-F. 5455
- Bertiaume G., Lavallée J.-F. and Deslongchamps P.** Intramolecular Michael addition of cyclic  $\beta$ -ketoster on conjugated olefinic ketone, a stereoelectronically controlled process, 5451
- Berti G** see Barilli P.L. 2307
- Bertounesque E** see Bellassoued M. 2623
- Besace Y** see Alexakis A. 1047
- Beslin P. and Dilubala A.** Reactivity of a novel ambident dianion formed by double deprotonation of  $\beta$ -thio-substituted dithiopropanoates: a lithio-acrylate equivalent, 1687
- Bessodes M., Komitsis D. and Antonakis K.** Rapid and selective de-tritylation of primary alcohols using formic acid, 579
- Bestmann H.J. and Schmidt M.** Permonone-53, Synthese von (3S-6R)-und (3S-6S)-3-hydroxy-1,7-

- dioxaspiro [5.5] undecan - eine Komponente des Olivenfliegen-phermomonkomplexes (*Dacus oleae*), 1999
- Bestmann H.J.** and **Arenz T.** Synthese deuterierter und brom-substituierter Olefine aus Dialkylboryl-alkylidendiphenylphosphoranen, 1995
- Betancor C., Carrau R., Francisco C.G. and Suárez E.** Thermal rearrangement of allylic cyanamides, 4783
- Bettela B.R** see Anderson J.E. 3909
- Beugelmans R., Lechevallier A., Kiffer D. and Maillos P.** Substitution nucleophile radicaleaire en chaîne (SRN1). 16ème Mémoire: N-acycloylation de l'imidazole, du benzimidazole, du pyrazole et du triazole, 6209
- Bhandal H., Pattenden G. and Russell J.J.** Oxidative free-radical cyclisations via cobalt(II) reagents. Novel approach to functionalised butyrolactones, 2299
- Bhatt B. and Harrison D.M.** The total synthesis of (-)-dihydro-aszonalenin and the stereochemistry of aszonalenin, 5873
- Bhatt M.V.** see Babu J.R. 1073
- Bhatt M.V. and Shashidhar M.S.** Carbonyl participation during the hydrolysis of aryl benzene-sulphonates, 2165
- Bhattacharjee S.** see Saha B. 3913
- Bhattacharyya A., Mukhopadhyay R. and Pakrashi S.C.** Structure and synthesis of alamaridine, a novel benzopyridoquinolizine alkaloid from *Alangium lamarcii*, 1215
- Bhattacharya B.K., Lim M.-I., Otter B.A. and Klein R.S.** Synthesis of furo[3,2-d]pyrimidine nucleosides: a novel C-nucleoside isostere of adenosine, 815
- Bhattacharya S., Karpha T.K., Basu B. and Mukherjee D.** Reductive methylation of  $\alpha$ -naphthyl ketones stereocontrolled synthesis of trans-octahydrophenanthrenes related to diterpenes, 5303
- Bhude R.S., Levison B.S., Sharma R.B., Ghosh S. and Salomon R.G.** Di-*tert*-butylmethylsilyl (DTBMS) trifluoromethanesulfonate. Preparation and synthetic applications of DTBMS esters and enol ethers, 671
- Bickelhaupt F** see Kostermans G.B.M. 1999, see van Heisteeg B.J.J. 6123, see van der Baan J.L. 6267
- Biellmann J.F** see Lutz E. 3940
- Billedeau R** see Castelhano A.L. 2435
- Bimanand A.Z** see Gupta Y.N. 295
- Binder J. and Zbiral E.** A new procedure for homologation of carbonyl compounds to  $\alpha$ -hydroxy-carboxylic esters by means of diethyl-[trimethylsilylethoxy-methyl]phosphonate, 5829
- Binder R** see Comperer R. 691
- Birtwistle D.H., Brown J.M. and Foxton M.W.** Stereoselectivity in the hydroboration of chiral cyclohexane-derived allylic alcohols, 4367
- Bischoff R** see Coull J.M. 3991
- Bisseck P., Charles G. and Berrier C.** Transposition d'un A<sup>14</sup> stéroïde: application à la synthèse d'un stérol marin 24-méthyle, 4731
- Bissonnette M** see Lavelée P. 679
- Bittler D** see Nickisch K. 5463
- Blackwell B.A** see Young J.C. 1019
- Blade R.J. and Robinson J.E.** A novel application of molybdenum mediated diene synthesis in the preparation of piperovatine, 3209
- Blagbrough I.S., Mackenzie N.E., Ortiz C. and Scott A.I.** The condensation reaction between isocyanates and carboxylic acids. A practical synthesis of substituted amides and anilides, 1251
- Blanc A** see Stambouli A. 4149
- Blasberger D** see Kashman Y. 1367
- Blechert S** see Kaczmarek R. 2845
- Bloch R. and Gilbert L.** Stereo-selective aldol condensations induced by a thermolabile group, 3511
- Blondeau D** see Rousseaux O. 3127
- Bloom A.J. and Mellor J.M.** Synthesis of 1-nitro-1,3-dienes via nitro-trifluoroacetoxylation of 1,3-dienes, 873
- Bloom S.H** see Chamberlin A.R. 551
- Bo L. and Fallis A.G.** Regioselective control of allyl anions with cadmium chloride:  $\alpha$  vs  $\gamma$  condensation with aldehydes, 5193
- Bobek M** see An H.-S. 3219
- Bodensteich M. and Criengl H.** A novel approach to carbocyclic analogues of nucleosides, 4291
- Bodo B., Trowitzsch-Kienast W. and Schomburg D.** Absolute configuration of bourgeanic acid: X-ray crystal structure of a 4'-bromo-phenacyl derivative of hemibourgeanic acid, 847
- Bodzay S.J** see Harpp D.N. 441
- Boehler M** see Crews P. 2797
- Boente J.M., Castedo L., Domínguez D. and Ferro C.-C.** Claviazepine, the first dibenzopyranazepine alkaloid, 4077
- Boente J.M., Castedo L., Domínguez D. and Rodriguez de Lera A.** Noyaine, the first C-ring secocularine alkaloid, 5535
- Boesten W.H.J** see Vriesema B.K. 2045
- Boger D.L. and Patel M.** Diels-Alder cycloadditions of rigid dieno-philes: a probe for allylic axial substituent control of the pi-facial selectivity in the Diels-Alder reaction, 683
- Bohey M** see Guillemin J.C. 1147
- Bognár R** see Herczegh P. 1509
- Böhlén L** see Lindgren G. 3283
- Böhlmann F. and Steimle-Meyer A.** Synthesis of brachycoumarin and cyclobrachycoumarin, 5359
- Boisdon M.T** see Diallo O. 2971
- Boivin J** see Balavoine G. 2849
- Bokel M** see Kraus W. 1002
- Bolan J.L** see Behforouz M. 3107
- Boland W** see Schotten T. 2349
- Boldrin G.P., Mengoli M., Tagliavini E., Trombini C. and Umani-Ronchi A.** Palladium catalyzed allylation of reformatsky reagents. Synthesis of  $\gamma$ - $\delta$ -unsaturated esters, 4223
- Boite J., Gourcy J.-C. and Veschambre H.** Utilisation des méthodes biologiques pour la préparation de synthons chiraux-1. Reduction de  $\beta$ -dicetones acycliques par *Saccharomyces cerevisiae* (levure de boulanger), 565
- Bończa-Tomaszewski Z.** Intramolecular cyclization of steroidiketone-aldehydes to acetals, 3767
- Bonfiglio J.N.** see Garst M.E. 4533
- Bonin M., Royer J., Grierson D.S. and Husson H.-P.** Asymmetric synthesis VIII. Biogenetically patterned approach to the chiral total synthesis of (-)-pumiliotoxin-C, 1569
- Bonrath W** see Kauffman T. 5351
- Booth R., Dial C., Conaway R., Pagni R.M. and Kabalka G.W.** The iodination of aromatic substrates on alumina, 2207
- Bordas X** see Garcia J. 639
- Borden W.T** see Bartmess J.E. 5931
- Bordieu C. and Goucaud A.** First synthesis of 1,2-dihydro 1,2- $\lambda^3$ -azaphosphorines, 4725
- Bordoloi M.J., Sharma R.P. and Sarma J.C.** Biomimetic transformation of a guianolide to a pseudo-guianolide, 4633
- Borg R.M. and Mariano P.S.** Allyl-stannane photoadditions to iminium salts. Efficiencies of sequential electron transfer destannation versus desilylation pathways, 2821
- Borghese A** see Van Hoecke M. 4569
- Bortolini O., Di Furia F., Licini G., Modena G. and Rossi M.** Asymmetric oxidation of 1,3-dithiolanes. A route to the optical resolution of carbonyl compounds, 6257
- Bosch E** see Bachti M.D. 641
- Bose A.K., Krishnan L., Wagle D.R. and Manhas M.S.** A novel chemical transformation of 3-vinyl-4-substituted-2-azetidinones, 5955
- Bossio R., Marcaccini S. and Pepino R.** A novel class of nitrile ylide, 4643
- Boukouvalas J** see Jefford C.W. 4011
- Boullanger P** see Banoub J. 4145
- Boullanger P. and Descotes G.** The N-allyloxycarbonyl derivative of D-glucosamine: a potent precursor of  $\beta$ -glycosidation, 2599
- Bouquant J** see Arya F. 1913
- Bourdon F** see Gauthier J.Y. 15
- Bourdon R** see Koli S.M. 2613
- Bourdon S** see Koli S.M. 2613
- Bourgin D** see Brodeck H. 343
- Bourguignon J** see Cazin J. 2375, see Tintillier P. 2357
- Bovenkamp J.W** see Buchanan G.W. 2239
- Bowman W.R** see Adebayo A.T.O.M. 1943
- Boyd D.B., Foster B.J., Hatfield L.D., Hornback W.J., Jones N.D., Munroe J.E. and Swartzendruber J.K.**  $\gamma$ -Lactam analogues of carbapenems, 3457
- Boyd D.B., Elzey T.K., Hatfield L.D., Kinrich M.D. and Morin J.M., Jr.**  $\gamma$ -Lactam analogues of the penems, 3453
- Boyd D.R** see Agarwal S.K. 4253
- Boykin D.W** see Baumstark A.L. 3079
- Bradford V.S** see Warpehoski M.A. 2735
- Brani G., Loupy A. and Pédoissaut M.** Effet de l'eau et d'autres additifs sur l'alkylation de KCN en transfert de phase solide-liquide sans solvant, 4171
- Brandi A** see Goti A. 5271
- Brandi A., Guarna A., Goti A. and De Sarlo F.** Rearrangement of nitrone cycloadducts to methylene cyclopropane. Synthesis of indolizidine and quinolizidine derivatives, 1727
- Brannon M.J** see Meyer W.L. 1449
- Braun M. and Weith R.** Synthesis of spirocyclic diketones related to fredericamycin A, 179
- Braun R., Schuster F. and Sauer J.** (4+2)-Cycloadditionen in Micellen: Ein Vergleich des Produktspektrums und der Reaktionsgeschwindigkeit mit Reaktionen in Lösung, 1285
- Braverman S., Freund M., Reisman D. and Goldberg I.** Synthetic applications of the carbanion walk mechanism: a novel and facile method for the preparation of 1,3-dimethylenecyclobutane and conjugated vinylallene derivatives, 1297
- Bray T.L** see Giguere R.J. 4945
- Breault G.A** see Parker K.A. 3835
- Breneman C.M** see Lipschutz B.H. 4273
- Brennan J., Hussain F.H.S. and Virgili P.** 4-Fluoroazetidinone derivatives from seco-

- penicillanate sulphonium tetra-fluoroborates, 3199
- Breslow R see Maitra U. 3087
- Brewster A.G. and Leach A. 6- vs 7-ring selectivity during acetal formation, 2539
- Bridon D see Barton D.H.R. 4309
- Brienne M.J. see Tran P.L. 2371
- Brillon D. and Deslongchamps P. Study on the influence of unsaturations on the formation of C-11, C-12, C-13 and C-14 membered rings, 1131
- Brimble M.A. see Baker R. 3311
- Bringmann G. and Schneider S. Rational synthesis of deuterium-labelled pyridoxal and pyridoxyl alkaloids, 175
- Brinker U.H. and Weber J. 1,2-Dimethylspiro[2.3]hex-1-ene by addition of cyclobutylidene to 2-butyne, 5371
- Brocard J., Lebibi J., Pelinski L. and Mahmoudi M. Complexation diastereoselective d'alcohols benzyliques par le chrome hexacarbonyle. Difference de reactivite des diastereoisomers en milieu acide, 6325
- Brockson T.J. see Ferraz H.M.C. 811
- Brodeck H., Bourgin D. and Neier R. Photochemical ring closure of muconic acid anhydride, 343
- Brooker D.R. see Ponpipom M.M. 309
- Brouillard R see Cheminat A. 4457
- Brouwer A.M. and Jacobs H.J.C. Photoreactions of (E)- and (Z)-2,5-dimethylhexatriene formation of a cyclopentene derivative: a novel reaction in thiene photochemistry, 1395
- Brown B.B. and Volkmann R.A. Stereo-selectivity in 6-halo-penicillanate Grignard reactions, 1545
- Brown E. and Daugan A. (R)-(+)β-Vinaryl-γ-butyrolactone, a new key-intermediate for the asymmetric synthesis of various lignans, 3719
- Brown E. and Lebreton J. A total synthesis of C-nor D-homosteroids of the A + B + C + D type, involving a reductive alkylation step for construction of the D-ring, 2595
- Brown J.D. see Comins D.L. 2219, 4549
- Brown J.M. see Birtwistle D.H. 4367
- Brown J.M., Cutting I., Evans P.L. and Maddox P.J. Factors affecting stereochemical control in directed homogeneous hydrogenation of α-hydroxyalkyl-acrylates, 3307
- Brown L see Houghton J.D. 4655
- Brown P. and Southgate R. A stereo-controlled route to optically active 1-methyl carbapenems, 247
- Brown R.F.C., Brown N.R., Coulston K.J., Danen L.B., Eastwood F.W., Irvine M.J. and Pullin A.D.E. Detection of infrared spectroscopy of benzene formed by flash vacuum pyrolysis and trapped in an argon matrix, 1075
- Brown R.T. and Curless D. Stereospecific synthesis of *Eruthro*-cinchona alkaloids from secologaniin, 6005
- Brown S.L., Davies S.G., Foster D.F., Seeman J.I. and Warner P. Improved stereochemical control and mechanistic aspects of the alkylation on enolates from  $[(n\text{-C}_5\text{H}_5)\text{Fe}(\text{CO})(\text{PPh}_3)\text{COCH}_2\text{R}]$ , 623
- Brown N.R. see Brown R.F.C. 1075
- Broxterman Q.B., Hoogeveen H. and Kingma R.F. Preparation of 1,3-dialkynyladamantanes and their aluminum bromide-mediated cyclo-adducts, 1055
- Bruhnke J.D. see Garst J.F. 1963
- Bruice T.C. see Dicken C.M. 5967
- Brun P see Rodriguez J. 835
- Brunet P see Dugas H. 7
- Brunettiere A.P. see Pezschk M. 3715
- Bryson T.A., Roth G.A. and Liu J. Alkylation of substituted pyrrole dianions; synthetic studies directed at the B/C ring systems of CC-1065, 3685
- Bryson T.A. and Roth G.A. Synthetic studies directed at the B/C ring systems of CC-1065; preparation of substituted cyclopropyl-indolenones, 3689
- Bu'Lock J.D., Morris G.A. and Richards M.K. Biosynthetic origins of the large macrolide, oligomycin A, 2917
- Buchanan G.W., Ripmeester J.A., Bovenkamp J.W. and Rodrigue A. Solid phase carbon-13 NMR studies of dicyclohexyl-18-crown-6 ethers and some alkali metal phenoxide complexes, 2239
- Buckland S.J. see Halton B. 5159
- Buckland S.J., Halton B. and Stanovnik B. 1,3-Diradical intermediates in 3H-pyrazole photolyses: 1,4-addition to dienes, 1309
- Buckland S.J. see Karuso P. 2177
- Buddrus J. see Jäger V. 2587
- Budgen G. see Pelter A. 5033
- Bugianesi R.L. see Ponpipom M.M. 309
- Buisson D. and Azerad R. Diastereoselective and enantioselective microbial reduction of cyclic  $\alpha$ -alkyl β-ketoesters, 2631
- Buisson D., El Baba S. and Azerad R. Yeast-catalyzed asymmetric reduction of benzil and benzoin to hydrobenzoins, 4453
- Buist P.H. and Dimmick G.P. Use of sulfur as a chemical connector, 1457
- Bulman Page P.C. and Rosenthal S. A simple and general synthesis of α-keto esters, 1947
- Bulman Page P.C., Rayner C.M. and Sutherland I.O. Stereospecific synthesis of exo- and endo-1,3-dimethyl-2,9-dioxabicyclo-[3.3.1]nonane, 3535
- Bungardner C.L. see Perrington S.T. 2715
- Bungardner C.L., Bunch J.E. and Whangbo M.-H. On the role of the CF<sub>3</sub> group in determining the relative stability of E, Z-isomers, 1883
- Bunce R.A. and Pierce J.D. A one-step preparation of (E)-4-mercapto-2-butenoic esters and nitriles relative Michael reactivities in simple unsaturated systems, 5583
- Bunch J.E. see Bungardner C.L. 1883
- Buono G. see Langrand G. 29
- Burg D.A. see Beak P. 5911
- Burik A see Marugg J.E. 2271
- Burke S.D. and Cobb J.E. Intramolecular phosphine-directed hydroformylation. Application to the total synthesis of (+)-phyllanthocin, 4237
- Burke S.D., Armistead D.M. and Shankaran K. Not the enolate Claisen rearrangement. A surprising route to the "right-wing" of indanomycin (X-1457A), 6295
- Burke S.D., Schoenen F.J. and Murtiashaw C.W. The ester enolate Claisen rearrangement. Synthesis of a C(1)-C(6) erythronolide fragment, 449
- Burke S.D. and Paofsky G.J. The ester enolate Claisen rearrangement. Total synthesis of (±)-ethisolidine, 445
- Burke S.D., Paofsky G.J. and Piscopio A.D. Total synthesis of (±)-isocavenaciolide and (±)-avenaciolide, 3345
- Burrows C.J. see Marecek J.F. 5943
- Burton D.J. see Dolbier W.R., Jr. 4387, see Jeong I.H. 3709
- Bushby R.J. and Jarecki C. The generation and E.S.R. observation of a derivative of vinyl-TMM (2-methylenecyclohept-3-en-1,5-diyil), 2053
- Bushby R.J. and Mann S. The generation and sigmatropic rearrangement of a derivative of vinyl-TMM (2,5-dimethyl-3-isopropyl-4-isopropylidenehex-2-en-1,5-diyil), 2057
- Busquets X.F. see Tombo G.M.R. 5707
- Busemann R. and Heesing A. Konsekutive Umlagerungen eines 2-Azabicyclo[2.2.2]octen-Derivates in das 1-Azatricyclo[3.2.1.0<sup>2,7</sup>]octan und das 6-Azabicyclo[3.2.1]octan-System, 561
- Buszek K.R. see Jung M.E. 6165
- Butcher J.A., Jr. see Dutta A.K. 3343
- Butcher J.A., Jr. and Dutta A.K. A convenient synthesis of macrocyclic paracyclophanes, 3341
- Butler R.N., Fitzgerald K.J. and Fleming M.T. 1-Hydrazonyl-tetrazoles: fragmentative cyclisation; a new route to substituted 1,2,4-triazoles, 4921
- Bye M.R. see Mistry A.G. 1051
- Byrne B. and Laffleur Lawter L.M. The preparation of trimethylsulfonium chloride from methyl chloroformate and dimethyl sulfide, 1233
- Cabiddu S., Floris C. and Melis S. Metalation reactions. IX. Dilithiation of aromatic thioethers, 4625
- Cacci S. see Arcadi A. 6397
- Cacci S., Ciattini P.G., Morera E. and Ortari G. Palladium-catalyzed carbonylation of aryl triflates. Synthesis of arenearboxylic acid derivatives from phenols, 3931
- Cacci S., Ciattini P.G., Moreira E. and Ortari G. Palladium-catalyzed triethylammonium formate reduction of aryl triflates. A selective method for the deoxy-generation of phenols, 5541
- Cahiez G. and Alami M. Organo-manganese (II) reagents XI. A study of their reactions with cyclic conjugated enones: conjugate addition and reductive dimerization, 569
- Cahiez G., Rivas-Enterrios J. and Granger-Veyron H. Organomanganese (II) reagents XII: An efficient one-pot preparation of unsymmetrical secondary or tertiary alcohols, 4441
- Cahiez G. and Figadore B. Organo-manganese (II) reagents XIII: Highly selective addition of organomanganese halides to aldehydes in the presence of ketones, 4445
- Cainelli see Andreoli P. 1695
- Cairns S.M. and McEwen W.E. Apparent absence of reversal of oxaphosphetane formation in some Wittig reactions, 1541
- Caldirola P., De Amici M. and De Micheli C. An easy synthesis of dihydromuscimol, 4651
- Caldirola P., Ciancaglione M., De Amici M. and De Micheli C. Conversion of isoxazolines to β-

- hydroxy esters. Synthesis of 2-deoxy-D-ribose, 4647
- Calet S.** and **Alper H.** A simple synthesis of azabicyclo[1.1.0]butane sulfones and sulfoxides, 2739
- Calet S.** and **Alper H.** Stereospecific rhodium(I) catalyzed desulfurization of thiranes, 3573
- Calhoun G.C.** and **Schuster G.B.** Triplex catalyzed Diels-Alder reactions: addition of indene to 1,3-cyclohexadiene, 911
- Callot H.J.** see Verne-Mismer J. 5257
- Calmes M., Daunis J., Jacquier R., Nkusi G., Verducci J.** and **Viallefont P.** Polyacrylic cross-linked resins with pendant chirality as auxiliary in supported asymmetric synthesis, 4303
- Calogeropoulou T** see Hammond G.B. 4265
- Calverley M.J.** An allylic nucleophilic substitution reaction of 2,3-hydroxyvitamin D derivatives, 4903
- Cambie R.C.** see Karuso P. 2177
- Cameron D.W., Feutrill G.I., Griffiths P.G.** and **Merrett B.K.** An expeditious synthesis of anthracycles, 2421
- Cameron D.W., Conn C., Crossley M.J., Feutrill G.I., Fisher M.W., Griffiths P.G., Merrett B.K.** and **Pavlatos D.** 1,4-Anthraquinonoid dienophiles applicable to synthesis of linear tetacycles, 2417
- Cameron D.W., Feutrill G.I., Gamble G.B.** and **Stavrakis J.** Synthesis of specifically O-alkylated anthraquinones by cycloaddition, 4999
- Camici L., Ricci A.** and **Taddei M.** Heterocyclic silyl enol ether chemistry: Synthesis and reactivity of 3-trimethylsiloxyfuran and 3-trimethylsiloxythiophene, 5155
- Campbell A.L.** and **Khanna I.K.** Metallation of rigid 2-aryl-1,3-dioxanes, 3963
- Campos P.J.** see Barriuenga J. 3303, 1715
- Camps P., Lluch M.A., Climent M.J.** and **Miranda M.A.** Unexpected formation of chroman-4-ones during the synthesis of 4-hydroxymethyl-2H-chromenes from 4-aryloxybut-2-yn-1-ois, 2041
- Canonne P., Kassou M.** and **Aksasira M.** Syntheses stéréosélectives des cetoacides bicycliques pontés, 2001
- Capdevila J.** see Mossat P. 6035, see Yadagiri P. 6039
- Caple R** see Simonian S.O. 1245, see Smit W.A. 1241, see Zefirov N.S. 3971
- Capobianco M., Mezzina E., Savoia D., Tagliavini E., Trimbini C.** and **Umani-Rondin A.** Prostanoids from D-glucose. Palladium-catalyzed alkylation of 1,2-O-isopropylidene-3-deoxy-5-acetoxy-a-D-erythro-pent-5-en-furanose, 1387
- Capon B.** and **Kwok F.-C.** The tautomerism of hydroxy derivatives of five-membered oxygen, nitrogen, and sulfur heterocycles, 3275
- Caporusso A.M., Lardicci L.** and **Da Settimo F.** Metal catalysis in organic reactions. XVIII. Stereochemistry of the transition-metal catalyzed cross-coupling of (S)-1-bromo-3-methyl-1,2-pentadiene with isobutylmetal compounds, 1067
- Cappo N.K.** see Barrett A.G.M. 5571
- Caramella P** see Corsaro A. 1517
- Carling R.W.** and **Holmes A.B.** Studies on the synthesis of gloeosporone - synthesis of the proposed 2,8-disubstituted oxocane structure, 6133
- Carmely S** see Kashman Y. 1367
- Caro B** see Gentric D. 3849
- Carpino P.A.** see Spaltenstein A. 147, 2095
- Carpita A** see Andreini B.P. 5533, see Rossi R. 2529
- Carpita A.** and **Rossi R.** Synthesis of stereoisomerically pure (E)-1,5-dien-3-enes and (E)-1-bromo-3-yn-1-enes by diastereoselective palladium-catalyzed cross-coupling reaction of 1-alkynyl-zinc chlorides with a stereoisomeric mixture of 1,2-dibromoethylene, 4351
- Carr C.S.** see Hoffman R.V. 5811
- Carrau R** see Betancor C. 4783
- Carretero J.C.** see De Lombaert S. 5099
- Carrie R** see Peillerin B. 5723
- Carrié R** see Grée R. 4983, see Khokhli M. 1031, see Pellon P. 4299
- Carrupt P.-A** see Arjona O. 5505, see Houriet R. 37
- Carter S.P.** see Padwa A. 2683
- Casati P** see Fuganti C. 3191, 2061, 5275
- Cassidy J.F.** and **Williams J.M.** Vinyl sulphones derived from thioglycosides: synthesis and alkylation, 4355
- Castagnino E., Corsano S., Barton D.H.R.** and **Zard S.Z.** Decarboxylative radical addition onto protonated heteroaromatic systems including purine bases, 6337
- Castedo L.** see Alonso R. 3539, see Boente J.M. 4077, 5535
- Castedo L., Mourão A.** and **Sarandeses L.A.** Palladium-catalyzed synthesis of dienynes related to vitamin D from enol triflates, 1523
- Castelhano A.L., Horne S., Billedeau R.** and **Krantz A.** Reactions of an electrophilic glycine cation equivalent with Grignard reagents. A simple synthesis of 8,Y-unsaturated amino acids, 2435
- Castle P.L.** and **Widdowson D.A.** New developments in palladium catalysed cross coupling: the coupling of alkyl iodides with alkyl Grignard reagents, 6013
- Catalan C.A.N** see Proudfoot J.R. 423
- Catalani G** see Barilli P.L. 2307
- Caton M.P.L.** see Huckstep M.R. 5919
- Caubère P** see Fort Y. 5487, see Riendel A. 5067, see Vanderesse R. 5483, 3517
- Cava M.P.** see Lakshminathan M.V. 4687
- Cazin J., Dupas G., Bourguignon J.** and **Quéguiner G.** Biomimetic reduction with non water-sensitive NADH models, 2375
- Cederbaum F.E.** see Negishi E. 2829
- Cefelín P** see Janout V. 3525
- Ceković Z.** and **Sacić R.** Free radical annulation of cyclopentane ring, 5893
- Ceković Z.** and **Sacić R.** Free radical carbocyclic ring reconstruction, 5981
- Celebuski J.E.** see Pearson W.H. 6301
- Cha Y** see Moss R.A. 4125, see Turro N.J. 6149
- Chaffee A.L.** see Johns R.B. 4791
- Chak B** see Wan P. 2937
- Chalaïs S., Laszlo P.** and **Mathy A.** Catalysis of the cyclohexadienone-phenol rearrangement by a Lewis-acidic clay system, 2627
- Challenger S.** and **Procter G.** Anhydro-D-glucopyranose in organic synthesis; preparation of a fragment for a synthesis of rosaramycin, 391
- Chamberlin A.R.** and **Bloom S.H.** Stereoselective formation of a hydridane ring system by anionic olefin cyclization. Trapping of the alkylolithium intermediate with electrophiles, 551
- Chambron J.-C.** and **Sauvage J.-P.** A macrocyclic ligand incorporating both a 2,2'-bipyridyl and a 2,9-diphenyl 1,10-phenanthroline fragment: reciprocal control of one site by complexation of the other site to a transition metal, 865
- Champion E** see Young R.N. 539
- Chan M.-C** see Ho K.M. 5383
- Chan T.H** see Hambly G.F. 2563, see Harpp D.N. 441
- Chan T.H.** and **Koumaglo K.A.** "tunable" stereoselective alkene synthesis by iodosilylation of vinylsilanes, 883
- Chan Y.-Y., Zhu C.** and **Leung H.-W.** Sensitized photooxygenation. II. Solvent effect in the reaction of singlet oxygen with 3,4-dihydro-6-methyl-2H-pyran-5-carboxylic acid ethyl ester, 3737
- Chandrasekaran S** see Rathore R. 4079, see Strelkowski L. 6045
- Chandrasekhar J** see Schleyer P.v.R. 4411
- Chang C.-W** see Chen Y.L. 3449
- Chang M.N** see Ponpipom M.M. 309
- Chapleo C.B** see Galan A.A. 4995
- Chapman K.T** see Evans D.A. 5939
- Charles G** see Bissec P. 4731
- Charpin P., Durach E., Kagan H.B.** and **Theobald F.R.** Formation of a crystalline molecular complex between a chiral sulfoxide and a chiral amide, 2989
- Chastrette F** see Stambouli A. 4149
- Chastrette M** see Amouroux R. 1035, see Stambouli A. 4149
- Chatani N., Takeyasu T.** and **Hanafusa T.** Addition of trimethylsilyl cyanide to alkenes with the aid of a palladium or nickel catalyst, 1841
- Chatani N.** and **Hanafusa T.** Palladium- or nickelcatalyzed reaction of alkenes with trimethylsilyl cyanide. A new synthesis of 5-aminopyrrole-2-carbonitriles, 4201
- Chattopadhyay S** see Davis F.A. 5079
- Chaudhary A.G** see Rao A.V.R. 993
- Chaussard J** see d'Incan E. 4175
- Chawla H.M.** and **Hassner A.** Dye sensitized photooxygenation of substitute oxime carbamates, 4619
- Chebaane K.** and **Guyot M.** Occurrence of Erythro-docosaphingia-4,8-diene, as an ester, in *Anemone sulcata*, 1495
- Chemburkar S** see Gawley R.E. 2071
- Chennat A.** and **Brouillard R.** PMR investigation of 3-O-( $\beta$ -D-glucosyl)malvidin structural transformations in aqueous solutions, 4457
- Chen C** see Huang Y. 2903
- Chen C.-P., Shih C.** and **Swenton J.S.** A general approach to quinone imine ketals. Interesting intermediates for preparation of 5-oxygenated indoles and quinone imines, 1891
- Chen C.-S** see Gu Q.-M. 1763
- Chen Q.-Y.** and **Yang Z.-Y.** Erratum, 3436
- Chen Q.-Y.** and **Yang Z.-Y.** Palladium-catalyzed reaction of phenyl fluoroalkanesulfonates with

- alkynes and alkenes, 1171  
**Chen Y.-P** see Kaneko K. 2387  
**Chen Y.L., Chang C.-W.** and **Hedberg K.**  
 Synthesis of a potent  $\beta$ -lactamase inhibitor 1,1-dioxo-6-(2-pyridyl)methylenepenicillanic acid and its reaction with sodium methoxide, 3449  
**Chenard R.L.** 3-Stannyl-1-silyloxy-cyclohex-1-enes: synthetic equivalents for ketone  $\alpha,\beta$ -dianions, 2805  
**Chenard B.L., Van Zyl C.M.** and **Sanderson D.R.** Reactions of cis-silyl tin olefins: (anti-Denmark) Nazarov cyclization of  $\beta$ -silyl divinyl ketones, 2801  
**Cheon S.H., Christ W.J., Hawkins L.D., Jin H., Kishi Y.** and **Taniguchi M.** A practical synthesis of trans-iodoolefins, 4759  
**Chiachio U** see Padwa A. 2683  
**Chiarino D., Napoletano M.** and **Sala A.** A convenient synthesis of muscimol by a 1,3-dipolar cyclo-addition reaction, 3181  
**Chiba M** see Takahashi H. 4477  
**Chicarelli M.I.** and **Maxwell J.R.** A novel fossil porphyrin with a fused ring system: evidence for water column transformation of chlorophyll?, 4653  
**Chiefari J., Janowski W.** and **Prager R.** Decarboxylation of phthalide-carboxylic acids in the presence of imines - a facile route to isoindol[1,2-b][3]benzazepin-5-ones and phthalideisoquinolines, 6119  
**Chilot J.J., Doutreau A., Gore J.** and **Saroli A.** Attaque nucléophile du carbone central de l'enchaînement cumule lors de la cyclisation de diols  $\omega,\omega'$ -alléniques, 849  
**Cho H., Ohnaka Y., Hayashimatsu M., Ueda M.** and **Shima K.** Synthesis of novel 1,4-, 3,4-, and 4,5-dihydropyrimidines: first successful  $\text{PCl}_3$ , chlorination and regioselective alkoxycarbonylation, 6377  
**Choi J.H., Kim D.W.** and **Shim S.C.** Phot-enhanced reduction of carbonyl compounds by sodium borohydride, 1157  
**Choi Y.-H., Kim J., Pezzuto J.M., Kinghorn A.D., Farnsworth N.R., Lotter H.** and **Wagner H.** Agrostistachin, a novel cytotoxic macrocyclic diterpene from *Agrostistachys hookeri*, 5795  
**Chong J.M.** and **Wong S.** Alkylation of stabilized acetylides in  $\text{DMSO}$ . Preparation of  $\alpha,\beta$ -acetylenic alcohols and acetals, 5445  
**Chong R.J., Siddiqui M.A.** and **Snieckus V.** Synthetic connections to the aromatic directed metatlation reaction. A modified von Niementowski quinoline synthesis from anthranilamides, 5323  
**Choshen E., Elitz R.** and **Rav-Acha C.** The formation of cation-radicals by the action of chlorine dioxide on p-substituted styrenes and other alkenes, 5989  
**Chow H.-F** see Bashyal B.P. 3205  
**Christ W.J** see Cheon S.H. 4759  
**Christensen S.B** see Apeloig Y. 6115, see Townsend C.A. 887  
**Christodoulou C., Agrawal S.** and **Gait M.J.** Incompatibility of acid-labile 2' and 5' protecting groups for solid-phase synthesis of oligoribonucleotides, 1521  
**Christol H** see Cristau H.-J. 1775  
**Chu M., Wu P.-L., Givre S.** and **Fowler F.W.** The 1-aza-Cope rearrangement, 461  
**Chuche J** see Arya F. 1913  
**Chun M.W** see Ahn S.H. 943  
**Chung W.-K** see Ahn S.H. 943  
**Chung Y.S** see Nicolaou K.C. 1881  
**Ciaccio J.A.** see Bell T.W. 827  
**Ciaccio J.A., Addess K.J.** and **Bell T.W.** Dilithium tetrachlorocuprate. A reagent for regio-selective cleavage of epoxides to chlorohydrins, 3697  
**Ciancaglione M** see Caldirona P. 4647  
**Ciattini P.G** see Cacchi S. 3931, 5541  
**Cimetiere B., Jacob L.** and **Julia M.** Resolution of oxiranes. Application to the synthesis of the platelet aggregation factor, 6329  
**Cioffi E.A.** and **Prestegard J.H.** Deuterium labelling of a glycosphingolipid using an ultrasoundated nickel catalyst, 415  
**Cluifolini M.A.** and **Wood C.Y.** The aza-Achmatowicz rearrangement: a route to useful building blocks for N-containing structures, 5085  
**Clardy J** see Gerwick W.H. 1979, see Naengchompong W. 2439, 5675, see Schiehser G.A. 5587, see Sun F. 275  
**Clarembaud M.** and **Krief A.** A novel method for the geminal dialkylation of the carbonyl group of aromatic aldehydes and ketones, 1719  
**Clarembaud M.** and **Krief A.** Metalation of benzyl selenides and of  $\alpha$ -aryl selenoacetals. Scope and limitations, 1723  
**Clarembaud M.** and **Krief A.** On the structure of  $\alpha$ -metallo benzyl-selenides, 4917  
**Clark G.R** see Karuso P. 2177  
**Clarke P.D., Fitton A.O., Suschitzky H., Wallace T.W., Dowlatshahi H.A.** and **Suschitzky J.L.** Synthesis of 2-substituted chromones, chromanones, and their thio analogues using organocopper reagents, 91  
**Cléophax J** see Gateau-Olesker A. 41  
**Clement M.J.** see Camps P. 2041  
**Cobb J.E** see Burke S.D. 4237  
**Colclough M.E** see Peiter A. 1935  
**Collet A** see Viret J. 5865  
**Colleuille Y** see Mignani G. 2591  
**Colombo L** see Palazzi C. 1735  
**Colonna F** see Barilli P.L. 2307  
**Colonna S** see Huang Y. 2179  
**Colonna S.** and **Manfredi A.** Catalytic asymmetric Weitz-Scheffer reaction in the presence of bovine serum albumin, 387  
**Comins D.L.** and **Brown J.D.** Addition of Grignard reagents to 1-acyl-4-methoxypryridinium salts. An approach to the synthesis of quinolizidinones, 4549  
**Comins D.L.** and **Brown J.D.** Addition of metallo enolates to 1-acyl-pryridinium salts. A short synthesis of (*i*)-epi-lupinine, 2219  
**Comins D.L.** and **Stroud E.D.** Synthesis of 3'-substituted indoles via N-acylindolium ions, 1869  
**Conaway R** see Booth R. 2207  
**Confalone P.N.** and **Earl R.A.** Intramolecular [3+2] cyclo-additions of functionalized azomethine ylides, 2695  
**Conn C** see Cameron D.W. 2417  
**Connell R., Scavo F., Helquist P.** and **Akermark B.** Functionalized oxazoles from rhodium-catalyzed reaction of dimethyl diazo-malonate with nitriles, 5559  
**Contento M** see Andreoli P. 1695  
**Cook J.M** see Venkatachalam M. 4111  
**Cook M.J., Nasri K.** and **Vather S.M.** The contrasting conformational behaviour of 5-aryl-5-methyl-1,3-dioxanes and 1-aryl-1-methyl-cyclohexanes, 3853  
**Coombes R.G., Diggle A.W.** and **Kempaell S.P.** The kinetics of the reactions of 2,6-di-t-butyl-4-methylphenol and 2,4,6-trimethylphenol with nitrogen dioxide in solution, 2037  
**Cooper M.M** see Abramovitch R.A. 3705  
**Cooper M.S.** and **Heaney H.** Mannich reactions of aryl-trialkylstannanes using preformed dialkyl-methyleneminium salts, 5011  
**Cooper P.J** see Nelson D.J. 4693  
**Corbera J** see Ortúñoz R.M. 1081  
**Corey E.J., d'Alarcão M.** and **Matsuda S.P.T.** A new irreversible inhibitor of soybean lipoxygenase; relevance to mechanism, 3585  
**Corey E.J., Niimura K., Konishi Y., Hashimoto S.** and **Hamada Y.** A new synthetic route to prostaglandins, 2199  
**Corey E.J.** and **Seibel W.L.** A simple stereoselective synthesis of  $\Sigma\text{-Y}$ -bisabolene, 909  
**Corey E.J.** and **Mehrotra M.M.** A Stereoselective and practical synthesis of 5,6(*S,S*)-epoxy-15(*S*)-hydroxy-7(*E*),9(*E*),11(*Z*),13(*E*)-eicosatetraenoic acid (4), possible precursor of the lipoxins, 5173  
**Corey E.J., Myers A.G., Takahashi N., Yamane H.** and **Schraudolf H.** Constitution of antheridium-inducing factor of *Anemone phyllitidis*, 5083  
**Corey E.J., Niimura K., Konishi Y., Hashimoto S.** and **Hamada Y.** Erratum, 3556  
**Corey E.J.** and **Seibel W.L.** First stereospecific synthesis of  $\Sigma\text{-Y}$ -bisabolene. A method for the concurrent generation of a ring and a tetrasubstituted exocyclic double bond, 905  
**Corey E.J.** and **d'Alarcão M.** 12-Methylidene-10(*Z*), 13(*Z*)-nonadecadienoic acid, a new irreversible inhibitor of soybean lipoxygenase, 3589  
**Corey E.J., Su W.** and **Houpis I.N.** Useful new annulation reactions of vicinal dicarboxylic esters, 5951  
**Corley D.G., Rottinghaus G.E.**, Tracy J.K. and **Tempesta M.S.** New trichothecene mycotoxins of *Fusarium sporotrichioides* (MC-72003), 4133  
**Corley D.G., Rottinghaus G.E.** and **Tempesta M.S.** Novel trichothecenes from *Fusarium sporotrichioides*, 427  
**Comans A** see Grimaldi J. 5089  
**Cornelisse J., Gilbert A.** and **Rodwell P.W.** Meta photocycloaddition of trans-1,2-dichloroethylene to benzenoid compounds: mechanistic considerations and photo and thermal labilities of the adducts, 5003  
**Corsano S** see Castagnino E. 6337  
**Corsaro A., Perrini G., Carmella P., Albinini F.M.** and **Bandiera T.** Cycloadducts of benzonitrile oxide to pyridine. A case of a two-step cycloaddition, 1517  
**Cortés D.A** see Semmelhack M.F. 1119  
**Cosquer P** see Pellon P. 4299  
**Cosse-Babli A** see Dubois J.-E. 3507  
**Cosse-Babli A.** and **Dubois J.-E.** Conformational dynamics: association of correlated and non-correlated rotations of methoxy groups in anomeric

- structures. Convergence of a theoretical study of 2,2-dimethoxypropane and of some crystallographic data of acyclic analogues of pyranoses, 3501
- Cossío F.P see Aizpurua J.M. 4359, 5666
- Cosy J.** and **Pete J.P.** A one step synthesis of  $\omega$ -hydroxyacetylenic carboxylic acids, 573
- Cosy J.** and **Pete J.P.** A three step synthesis of exaltolide and phoracantholide I, 2369
- Costa A** see Saá J.M. 5125
- Costero A.M** see Gavina F. 4779
- Coull J.M.,Weith H.L. and Bischoff R.** A novel method for the introduction of an aliphatic primary amino group at the 5' terminus of synthetic oligonucleotides, 3991
- Coulston K.J** see Brown R.F.C 1075
- Cowan J.A.**  $\text{Cu}^{2+}/\text{BH}_4$ -reduction system: synthetic utility and mode of action, 1205
- Cowan J.A. and Sanders J.K.M.** Reductive demetalation of porphyrins: evidence for peripheral and axial modes of reduction, 1201
- Cowart M.D** see Wilcox C.S. 5563
- Cox D.G** see Jeong I.H. 3709
- Cox G** see Agathocleous D. 1631
- Coxon J.M** see Battista M.A. 517
- Crämer E** see Adam W. 3361
- Cracknell P.H.,Greengrass C.W. and Stodley R.J.** Synthesis of 2-(methoxy-carbonyl)methyl-7-phenylacetamido-3-thiacepham-4-carboxylates, 1301
- Cramer C.J** see Denmark S.E. 3693, 5778
- Crandall J.K. and Mualla M.** Reductive cyclizations of allenic ketones by dissolving metals, 2243
- Craney C.L** see Deardorff D.R. 1255
- Crews P.,Manes L.V. and Boehler M.** Jasplakinolide, a cyclo-depsipeptide from the marine sponge, *Jaspis* sp., 2797
- Crimmins M.T. and Lever J.G.** Synthesis of the hexahydrobenzofuran subunit of the milbemycins and the avermectins, 291
- Cristau H.-J.,Torrelles E.,Morand P. and Christol H.** Bichromates de phosphonium: réactifs d'oxydation, 1775
- Cristau H.-J.,Bazbouz A.,Morand P. and Torrelles E.** Dethiopacetalisation de dithiannes-1,3 par des tribromures de phosphonium, 2965
- Crombie L.,Jones R.C.F. and Haigh D.** Synthesis of unsymmetrical spermine alkaloids of the *Homalium* group, 5147
- Crombie L.,Jones R.C.F. and Haigh D.** Transamidation reactions of  $\beta$ -lactams: a synthesis of ( $\pm$ )-dihydroperiphylline, 5151
- Cronin J.P.,Dilworth B.M. and McKervey M.A.** Organic synthesis with  $\alpha$ -chlorosulphides. Convenient routes to phenylthioacetals from  $\alpha$ -diazoketones and alkyl phenyl sulphides via  $\alpha$ -chlorosulphides, 757
- Crossley M.J** see Cameron D.W. 2417
- Crowley P.J.,Leach M.R.,Meth-Cohn O. and Wakefield B.J.** Do the compounds  $\text{PhCH}_2Y$  give geminal dianions on addition of two equivalents of strong base?, 2909
- Crumbliss A.L.,Topping R.J. and Quin L.D.** Retention of phosphorus configuration on forming iron-tetracarbonyl complexes with phosphines in the 9-phosphabicyclo[4.2.1]nonatriene and 7-phosphanorbornene systems, 889
- Cugnon de Sévricourt M** see Dallemande P. 2607
- Cunico R.F.** The silapinacol rearrangement: conversion of  $\alpha,\beta$ -dihydroxysilanes into  $\alpha$ -silyl carbonyl compounds, 4269
- Cunkle G.T** see Eaton P.E. 6055
- Cunningham A.F** see Oppolzer W. 5467
- Curci R** see Ballistreri F.P. 5139
- Curless D** see Brown R.T. 6005
- Curran D.P. and Kim D.** Atom transfer cyclization of simple hexenyl iodides. A caution on the use of alkenyl iodides as probes for the detection of single electron transfer processes, 5821
- Curran D.P. and Fenk C.J.** Reductive cleavage of highly substituted  $\alpha^2$ -isoazolines. Synthesis of cristic acid, 4865
- Curran T.T** see Behforouz M. 3107
- Cushman M. and Wong W.C.** Synthesis of a hypothetical intermediate in the biosynthesis of the 13-methylbenzophenanthridine alkaloids corynoline and 14-epi-corynoline and the B-secoproberberine alkaloid corydalic acid methyl ester, 2103
- Cutting I** see Brown J.M. 3307
- Cyr P** see Shah M. 5437
- Dai L.X.,Lou B.L.,Zhang Y.Z. and Guo G.Z.** Regioselective titanium mediated reductive opening of 2,3-epoxy alcohols, 4343
- Daigneault S** see Guindon Y. 1237
- Daily W.P.** The relationship between  $^{19}\text{F}$  chemical shifts and calculated electron densities in perfluorinated annulenes, 2825
- Dallemande P.,Rault S.,Cugnon de Sévricourt M.,Hassan Ki.M. and Robba M.** Cyclisation de l'acide amino-3 (thienyl-3)-3 propionique en aminocyclopentathiophenes, 2607
- Damm H** see Thomas A.F. 505
- Dan'kov Yu.V** see Zefirov N.S. 3971
- Danner L.B** see Brown R.F.C 1075
- Dang Vu B** see Koll S.M. 2613
- Dangles O** see Guibe F. 2365
- Daniel H. and Le Corre M.** 2,2-Dihydro 2-methyl 2,2-diphenyl 3,4-methano 1,2-oxaphospholane as new reagent for the methylation of carbonyl compounds, 1909
- Daniels R.C** see Stöbbe M. 2353
- Danilova G.A.,Mel'nikova V.I. and Pivnitsky K.K.** Efficient synthesis of (S)-5-hydroxymethyl-5(H)-furan-2-one from D-mannitol, 2489
- Darden T** see Lipkowitz K.B. 1759
- Darey M.C.P** see Berry N.M. 2319
- Darling S.D** see Winkler J.D. 5959
- Das I** see Gupta B. 5773
- Daub G.W. and Griffith D.A.** The stereoselectivity of ketal Claisen rearrangements with ketals of simple cyclic ketones, 6311
- Daugan A** see Brown E. 3719
- Daunis J** see Caimès M. 4303
- Davies H.G.,Dawson M.J.,Lawrence G.C.,Mayall J.,Noble D.,Roberts S.M.,Turner M.K. and Wall W.F.** Microbial hydroxylation of cyclohexylcyclohexane: synthesis of an analogue of leukotriene-B<sub>2</sub>, 1089
- Davies H.G.,Gartenmann T.C.C.,Leaver J.,Roberts S.M. and Turner M.K.** Reduction of 7-chloro-bicyclo[3.2.0]hept-2-en-6-ones catalysed by 3a-208-hydroxy-steroid dehydrogenase, 1093
- Davies J.W.,Malpass J.R. and Moss R.E.** Heterolysis of N-chloro-1,2,3,4-tetrahydro-1,4-imino-naphthalenes and related systems; effects of structure and of solvent on reaction pathways, 4071
- Davies S.G** see Brown S.L. 623
- Davies S.G.,Seeman J.I. and Williams I.H.** Conformational analysis of the iron acetyl complex [ $(\text{n}^5\text{-C}_5\text{H}_5)_2\text{Fe}(\text{CO})(\text{PPh}_3)\text{COCH}_3$ ], 619
- Davies S.G.,Dordor-Hedgecock I.M.,Sutton K.H. and Walker J.C.** The asymmetric synthesis of  $\beta$ -lactams. Stereocontrolled asymmetric tandem Michael additions and alkylations of  $\alpha,\beta$ -unsaturated acyl ligands bound to the chiral auxiliary [ $(\text{n}^5\text{-C}_5\text{H}_5)_2\text{Fe}(\text{CO})(\text{PPh}_3)$ ], 3787
- Davis F.A.,Giangiordano M.A. and Starner W.E.** A new synthesis of primary amines from diaryllindene-sulfamides, 3957
- Davis F.A. and Chattopadhyay S.** Asymmetric epoxidation of non-functionalized alkenes with high enantioselectivity using chiral sulfamoyloxaziridines, 5079
- Davoust D** see Robin J.P. 2871, see Tafrout M. 1781
- Dawe R.D. and Wright J.L.C.** The major polypropionate metabolites from the sacoglossan mollusc, *Elysia chlorotica*, 2559
- Dawson M.J** see Davies H.G. 1089
- De Amici M** see Caldirona P. 4651, 4647
- De Clercq P.J** see Grootaert W.M. 1731
- De Jeso B** see Degueil-Castaing M. 5927
- De Kimpe N.,Yao Z. and Schamp N.** Dehydrodimerization of imines via  $\alpha$ -bromoimines using lithium diisopropylamide, 1707
- De Lombaert S.,Memery I.,Roekens B.,Carretero J.C.,Kimmel T. and Ghosez L.** Methylk 3-phenylsulfonyl orthopropionate: a new reagent for cyclopentannulation, 5099
- De Lucchi O.,Piccolrovazzi N. and Modena G.** Synthesis of polycyclic alkenes via reductive elimination of  $\alpha$ -dicyano derivatives: a facile preparation of anti-sequinobornene and related molecules, 4347
- De Micheli C** see Caldirona P. 4651, 4647
- De Sarlo F** see Brandi A. 1727, see Goti A. 5271
- Dean F.M** see Aldersley M.F. 255
- Deardorff D.R.,Matthews A.J.,McMeekin D.S. and Craney C.L.** A highly enantioselective hydrolysis of *cis*-3,5-diacetoxy-cyclopent-1-ene. An enzymatic preparation of 3(R)-acetoxy-5(S)-hydroxycyclopent-1-ene, 1255
- Defoin A.,Fritz H.,Geffroy G. and Streith J.** A simple one-pot synthesis of the tricyclic mitomycin skeleton, 3135
- Defoin A.,Fritz H.,Geffroy G. and Streith J.** Total synthesis of ( $\pm$ ) aminoallose derivatives, 4727
- Degl'Innocenti A** see Ricci A. 5985
- Degueil-Castaing M.,De Jeso B.,Kraus G.A.,Langrebe K. and Maillard B.** Mechanism of the addition of tributyltin iodoacetate to alkenes, 5927
- DeHoff B.S** see Marshall J.A. 4873
- Dejneka T** see Slusarchyk W.A. 2789
- Delair T. and Douthneau A.** O-Cyclisation of allenic  $\beta$ -keto-esters, 2859
- Delaunay J.,Orliac-Le Moing A.,Simonet J. and Toupet L.** L'utilisation de l'anode comme

- catalyseur d'additions [2 + 2] et [4 + 2]: exemple de la réactivité d'indenones en présence de certains styrènes  $\alpha$ -substitués, 6205
- Delgado M** see Gustowski D.A. 3487
- Dell'Aira D** see Baciocchi E. 2763
- Deila E.W., Elsey G.M. and Skouroumounis G.** Solvolytic rearrangements of bicyclo[2.1.1]hex-2-yl mesylates, 5993
- Dellarla J.F., Jr. and Maki R.G.** The enantio- and diastereoselective synthesis of the first phosphostatinine derivative, 2337
- Delort A.M.** see Kraszewski A. 861
- Delpech B** see Prat D. 711
- Demally G** see Solladié G. 2867
- Dembech P** see Ricci A. 5985
- Demers J.P** see Weinreb S.M. 2099
- Demir A.S., Gross R.S., Dunlap N.K., Bashir-Hashmi A. and Watt D.S.** A  $\delta$ -lactone synthesis involving an intramolecular 1,4-addition of  $\alpha$ -iodoacetates to enones, 5567
- Denko D.M** see Weinreb S.M. 2099
- Denis J.-M** see Pellerin B. 5723
- Denis J.M.** see Guillemin J.C. 1147
- Denmark S.E., Cramer C.J. and Sternberg J.A.** Erratum, 5778
- Denmark S.E., Cramer C.J. and Sternberg J.A.** The stereostructures of [1,1'-bicyclohexyl]-2,2'-diones; a reassignment, 3693
- Denney D.Z** see Mosk R.A. 419
- Depezay J.C** see Durault A. 4157, see Le Merrer Y. 4161
- Descoates G** see Banoub J. 4145, see Boullanger P. 2599
- DeShong P. and Kell D.A.** A total synthesis of (+)-allo-kainic acid, 3979
- DeShong P., Lin M.-T. and Perez J.J.** Total synthesis of the (+)-pheromone of the male swift moth *Heptia necta* L., 2091
- Deslongchamps P** see Berthiaume G. 5451, see Brillon D. 1131, see Lavallée J.-F. 5455
- Desroches J** see Dugas H. 7
- Destombes J.L** see Guillemin J.C. 1147
- Devadas B** see Ferris J.P. 323
- Devchand D.K., Murray A.W. and Smeaton E.** The reactions of  $\alpha$ -alkoxyallylphosphine oxide ylides with silicon, sulphur, and phosphorus electrophiles, 4635
- Devens B** see Kahn M. 4441
- Devine K.G. and Reese C.B.** Highly reactive condensing agents for the synthesis of oligonucleotides by the phosphotriester approach, 5529
- Devo M.J.** see Krief A., 2283
- Deziel R. and Favreau D.** Simple and highly diastereoselective synthesis of a 1 $\beta$ -methyl-carbapenem key intermediate involving divalent tin enolates, 5687
- Dho J.C., Fleet G.W.J., Peach J.M., Prout K. and Smith P.W.** Synthesis of 2R,3S,4R-dihydroxyproline from D-ribonolactone, 3203
- Di Furia F** see Bortolini O. 6257
- Dial C** see Bootho R. 2207
- Diallo O., Boisdon M.T., Lopez L., Malavaud C. and Barrans J.** Composés du phosphore dicoordonné: réaction de diaza-1,4 dienes-1,3 substitués sur les dérivés de diazaphosphole, du triazaphosphole-1,2,4,3 et de précurseurs de composés du phosphore dicoordonné, 2971
- Diaz A** see Lavallee D.K. 3521
- Dicken C.M., Lu F.-L. and Bruice T.C.** Metalloporphyrin-mediated radical cycloadditions of O-cyano-N,N-dimethylaniline, 5967
- Dickman D.A. and Meyers A.I.** An asymmetric synthesis of (-)-octeine, 1465
- Diederich F** see Schürmann G. 4249
- Dicter P.K. and Fishbaugh J.R.** Synthesis of  $\alpha$ -pyrones from  $\alpha$ -oxo ketene di thiocetals, 3823
- Dietrich S** see Setz G. 2747
- Dietrich-Buchecker C.O., Sauvage J.P. and Weiss J.** Interlocked macrocyclic ligands: a catenane whose rotation of one ring into the other is precluded by bulky substituents, 2257
- Diggle A.W** see Coombes R.G. 2037
- Dijkstra P.J., van Steen B.J., Hans B.H.M., den Hertog H.J., Jr. and Reinholdt D.N.** The synthesis of 4H-pyran containing hemispherands via pyrlyium salts, 3183
- Dilworth B.M** see Cronin J.P. 757
- Dimmick G.P** see Buist P.H. 1457
- DiNovi M.J** see Townsend C.A. 3819
- Disch R.L** see Schulman J.M. 5315
- Dittmer D.C** see Polson G. 5579
- Dixneuf P.H** see Jaouhari R. 6315, see Mahé R. 6333, see Kuppin C. 6323
- Dixon B.R** see Pearson W.H. 6301
- Djakovskaja V.M** see Yurchenko A.G. 1399
- Djerassi C** see Bock T.G. 2187, see Proudfoot J.R. 423, see Stoilov I.L. 4821
- Djuric' S.W., Miyano M. and Snyder J.P.** Synthesis of a novel prostacyclin analog containing the bicyclo[3.1.0]hexane ring system. Application of molecular mechanics calculations to organic synthesis, 4403
- Dubau A** see Beslin P. 1687
- Do Q.T** see Le Guillanton G. 2261
- Doherty A.M. and Ley S.V.** Synthetic studies towards the acyltetronic acid ionophore M 139603, 105
- Dolbier W.R., Jr., Koroniak H., Burton D.J. and Heinze P.** The electrocyclic interconversion of perfluoro-3-methylcyclobutene with Z- and E-perfluoro-1,3-pentadiene, 4387
- Domínguez D** see Alonso R. 3539, see Boente J.M. 4077, 5535
- Domingo L.R** see Abad A. 3289
- Donaldson W.A. and Grief V.J.** Reactivity of (3-chloro-2-methylene)cycloalkyl)palladium chloride dimers: nucleophilic attack by one or two equivalents of malonate anion, 2345
- Dondoni A., Fogagnolo M., Medici A. and Pedrini P.** Erratum, 3796
- Dondoni A., Fogagnolo M., Fantin G., Medici A. and Pedrini P.** Masked multifunctionalization of aromatics with palladium-catalyzed halogen-oxazoline exchange, 5269
- Dondoni A., Fogagnolo M., Mastellari A., Pedrini P. and Uguzzoli F.** Oxazoles as dienophiles in Diels-Alder reactions, 3915
- Dordon-Hedgecock I.M** see Davies S.G. 3787
- Dorfmeister G** see Märkl G. 4419
- Dormond A., Aaliti A. and Moise C.** Réactivité de la liaison  $\sigma$  actinide-carbone: le tris(bis(trimethylsilylamido)methyluranium, un agent methylant nuclophe de haute sélectivité, 1497
- Dornberger K., Ihn W., Schade W., Tresselt D., Zureck A. and Radics L.** Antibiotics from basidiomycetes. Evidence for the occurrence of the 4-hydroxy-
- benzenediazonium ion in the extracts of *Agaricus xanthodermus* Genévier (Agaricales), 559
- Doubleday C., Jr** see Lei X. 4671, 4675
- Dougherty D.A** see Pettit M.A. 807
- Doutheau A** see Chilot J.J. 849, see Delair T. 2859
- Dow R.L** see Evans D.A. 1007, 4957
- Dowd P. and Paik Y.H.** Dimethylene-bicyclo[1.1.1]pentanone, 2813
- Dowlatabadi H.A** see Clarke P.D. 91
- Doyama K., Joh T., Takahashi S. and Shiohara T.** Hydroformylation and hydrocarbonylation of enynes by rhodium carbonyl cluster: a new route to cyclic enones, 4497
- Doyle M.P., Loh K.-L., Nishioka L.I., McVickar M.B. and Liu M.T.H.** Formation of a dipolar adduct in the reaction of arylchlorocarbene with diethyl maleate, 4395
- Doyle T.W** see Vyas D.M. 3099
- Draper A.M. and de Mayo P.** Surface photochemistry: semiconductor photoinduced valence isomerization of quadricyclane to norbornadiene, 6157
- Dreiding A.S** see Koller M. 19
- Drijfhout J.-W., Wagenaar A. and Engberts J.B.F.N.** Efficient intramolecular nucleophilic catalysis in the base-catalyzed hydrolysis of  $\alpha$ -(1-hydroxyalkyl)-N,N-dimethylbenzenesulfonamides, 2423
- Dubé D** see Hanessian S. 5071, 2699
- Dubois J.-E** see Bellasoued M. 2623, see Cossé-Barbi A. 3501
- Dubois J.-E. and Cossé-Barbi A.** Conformational distortions from local symmetry in cyclic and acyclic compounds: crystallographic data analysis of  $C_2$ CCZC fragments ( $Z = C, P, Si, N, S, O$ ), 3507
- Duo Do Kha** see Fetizon M. 1777
- Dudek H., Kaiser M. and Rosenbaum D.** Sequence of  $\delta$ -carbon signals in 2-substituted adamantanes determined by two-dimensional correlated NMR spectroscopy, 473
- Dugas H** see Basak A. 3
- Dugas H., Brunet P. and Desroches J.** Design and synthesis of a novel bis-crown ether carrier molecule. Mimic of  $(Na_4K_4)$ -ATPase, 7
- Duhamel L., Fouquay S. and Plaquevent J.-C.** Ligand exchange in asymmetric reactions of lithium enolates: application to the deracemization of  $\alpha$ -aminoacids, 4975
- Dujardin R** see Günther H. 2251
- Dumas F. and d'Angelo J.** A new approach to the carbapenam nucleus through an intramolecular N-heterocyclization, 3725
- Dumont C** see Vincens M. 2267
- Dulach E** see Charpin P. 2989
- Duncan S.M** see Giguere R.J. 4945
- Dunlap N.K** see Demir A.S. 5567
- Dupas G** see Cazin J. 2375, see Tintillier P. 2357
- Dupuy C** see Petrier C. 3149
- Duréault A., Grech C. and Depezy J.C.** Diastereospecific synthesis of diaziridines from D-mannitol. Access to chiral  $\alpha$ -aminoacids, 4157
- Durham P.J. and Gallemmo R.A., Jr.** The introduction of a new sulfamoylation reagent: N-carbo-(trimethylsilyloxy)sulfamoylchloride. Versatile syntheses of 3-amino-4-N-alkyl and 3-amino-2-N-alkyl-5-aryloxy-1,2,4,5-thiatriazine-1,1-dioxides, 123
- Durrwachter J.R., Sweers H.M., Nozaki K. and Wong C.-H.** Enzymatic aldol

- reactio/isomerization as a route to unusual sugars, 1261
- Durst T** see Hrytsak M. 5679, see Macdonald D.I. 2235
- Dutta A.K.** see Butcher J.A., Jr. 3341
- Dutta A.K. and Butcher J.A., Jr.** Macrocycle ring formation in micelles, 3343
- Dvorák D** see Kočovský P. 5015
- Dvoryantsev S.N.** see Ryabov A.D. 2169
- Easton C.J. and Love S.G.** Direct introduction of a benzyloxy substituent at the C-4 position of  $\beta$ -lactams, 2315
- Eastwood F.W.** see Brown R.F.C. 1075
- Eaton P.E. and Cunkle G.T.** Oxidative deiodination of cubyl iodides: a tactic for the nucleophilic introduction of substituents onto the cubane framework, 6055
- Eberbach W., Fritz H., Heinze I., von Laer P. and Link P.** Intramolecular cycloadditions with azomethine ylides for the synthesis of metacyclophanes, 1403
- Enner C.B.** see Schudt P.F. 2567
- Echavarren A** see Kelly T.R. 6049
- Echegoyen L** see Gustowski D.A. 3487
- Eckstein F. and Kutzke U.** Synthesis of nucleoside 3',5'-cyclic phosphorothioates, 1657
- Edstrom E.D. and Livinghouse T.** On the direct generation of episelenonium ions from alkenes. An efficient new procedure for effecting selenylative arene-alkene carboannulations, 3483
- Egert E** see Fitjer L. 3603
- Eguchi S** see Ohno M. 3381
- Eichberger G., Penn G., Faber K. and Griengel H.** Large scale preparation of (+)- and (-)-endo-norbornenol by enzymatic hydrolysis, 2843
- Eichner R.D** see Waring P. 735
- Einhorn J. and Luche J.L.** Sonoochemical Barbier reaction with isocyanates and the synthetic use of the organometallic intermediate, 501
- Einhorn J. and Luche J.L.** Ultrasound in organic synthesis 9. Further results for the bouveault reaction, 1791
- Einhorn J. and Luche J.L.** Ultrasound in organic synthesis 10. Selective ortho-lithiation of the bouveault reaction intermediate, 1793
- Eisen N** see Vögtle F. 695
- Ejiri E** see Ojima J. 2467, see Yamamoto K. 975
- Ejjiyar S** see Amouroux R. 1035
- El Babé S** see Bässler D. 4453
- El Goumelli M** see Joucla M. 1681, 1677
- El-Hossini M.S., McCullough K.J., McKay R. and Proctor G.R.** Ring-expansion by a Wittig-prévost sequence, 3783
- Elbl K** see Staab H.A. 5719
- Elefeld M.B. and Hogeveen H.** Enantioselective deprotonation of two racemic cyclic carbonyl compounds by a chiral lithium amide, 631
- Elefeld M.B. and Hogeveen H.** Enantioselective reduction of acetophenone by borane chiral amine complexes, 635
- Eliel E.L** see Frye S.V. 3223
- Eliseev A.V** see Ryabov A.D. 2169
- Elits R** see Choshen E. 5989
- Elliot J. and Warren S.** Horner-Wittig reactions using dibenzophosphole oxides: stereochemically controlled reduction of ketones, 645
- Eisley G.M** see Della E.W. 5993
- Elizey T.K** see Boyd D.B. 3453
- Emrich R** see Maier G. 3607
- Enziane M** see Sinou D. 4423
- Enders D** see Papadopoulos K. 3491
- Endo H** see Taguchi T. 6103
- Endo T** see Fukuda H. 1587, see Miyazawa T. 3395, see Takada T. 615, see Watanabe Y. 5385, 215
- Endo Y** see Namikawa K. 4209, see Sakai S. 5219
- Endo Z.-I** see Kumagai T. 6225
- Eng K.K** see Schultz A.G. 2331
- Engbers J.B.F.N** see Drijfhout J.-W. 2423
- Engels J** see Uhlmann E. 1023
- Engler T.A. and Falter W.** A facile, stereoselective preparation of (Z)-2,4-pentadienoates by Favorskii rearrangement, 4115
- Engler T.A. and Naganathan S.** An efficient benzoquinone based Diels-Alder approach to podocarpane diterpenes, 1015
- Engler T.A. and Naganathan S.** Erratum, 2548
- Engler T.A. and Falter W.** Stereoselective preparation of methyl (Z)-cinnamates by Favorskii rearrangement, 4119
- Ennis M.D. and Baze M.E.** Asymmetric total synthesis of 14(R),15(S)-, 14(S),15(R), 14(R),15(R)-, and 14(S),15(S)-epoxyicosatetraenoic acids, 6031
- Enomoto M., Katsuki T. and Yamaguchi M.** Highly regioselective isomerization of acetylenes to alenes, 4599
- Epling G.A. and Florio E.** Enhanced photodehalogenation of chlorobiphenyls, 675
- Epling G.A. and Florio E.** Reversal of the regioselectivity of the Birch reduction of xylenes, 1469
- Eritja R** see Pedroso E. 743
- Esaki T., Sakane S. and Yamamoto H.** Biomimetic entry to chiral epoxide synthesis novel asymmetric induction using chiral anchimeric assistance, 1359
- Escoula B., Rico I. and Lattes A.** Le formamide, un substitut de l'eau XI: effet du formamide sur les réactions d'échange chlore-fluor dans les conditions de transfert de phase liquide-solide, 1499
- Esquivel B** see Rodríguez-Hahn L. 5459
- Estebanes L** see Rodríguez-Hahn L. 5459
- Etemad-Moghadam G** see Bellan J. 1145
- Etkin N** see Hrytsak M. 5679
- Euler K** see Maier G. 3607
- Evans D.A., Sjogren E.B., Bartrolí J. and Dow R.L.** Aldol addition reactions of chiral crotonate imides, 4957
- Evans D.A. and Polniaszek R.P.** Studies directed toward the synthesis of lysocellin class polyether antibiotics. The asymmetric synthesis of the C<sub>1</sub>-C<sub>9</sub> ferensimycin synthon, 5663
- Evans D.A. and Sjogren E.B.** The asymmetric synthesis of  $\beta$ -lactam antibiotics - III. Enantioselective synthesis of (+)-PS-5, 3119
- Evans D.A. and Sjogren E.B.** The asymmetric synthesis of  $\beta$ -lactam antibiotics - IV. A formal synthesis of thienamycin, 4661
- Evans D.A. and Chapman K.T.** The directed reduction of  $\beta$ -hydroxy ketones employing Me<sub>n</sub>NHBOAc<sub>2</sub>, 5939
- Evans D.A. and Bender S.L.** Total synthesis of the ionophore antibiotic X-206. Studies relevant to the stereoselective synthesis of the C(17)-C(26) synthon, 799
- Evans D.A. and Dow R.L.** Total synthesis of the ionophore antibiotics ionomycin. Asymmetric synthesis of the C<sub>1</sub>-C<sub>10</sub> and C<sub>1</sub>-C<sub>1</sub> synths, 1007
- Evans P.L** see Brown J.M. 3307
- Evans S.V., Omkaram N., Scheffer J.R. and Trotter J.** Reactivity differences between dimorphs in a crystalline piazse Norrish type II reaction, 1419
- Evidente A** see Itaya T. 6349
- Eyley S.C., Heaney H. and Sodhi K.S.** <sup>13</sup>C N.M.R. spectra of carbonium salts obtained from derivatives of phthalic acid, 6275
- Faber K** see Glänzer B.I. 4293
- Fabre J.M** see Giral L. 4315
- Falla S** see Ballistreri F.P. 5139
- Falck J.R** see Manna S. 2679, see Mosset P. 299, 6035, see Moustakis C.A. 303, see Yadagiri P. 6039
- Fall Y** see Van Bac N. 841
- Fall Y., Van Bac N. and Langlois Y.** Synthesis of the pheromone of the comstock mealbug via a sila-cope elimination, 3611
- Fallis A.G** see Bo L. 5193
- Falter W** see Engler T.A. 4119, 4115
- Fantin G** see Dondoni A. 5269
- Farkas I** see Somáék L. 5877
- Farkhani D** see Sollaie-Cavallo A. 1331
- Farnsworth N.R** see Choi Y.-H. 5795
- Fataftah Z.A., Ibrahim M.R. and Abu-Agil M.S.** Preparation of dimethylsilyl bis-enol ethers, 4067
- Favreau D** see Deziel R. 5687
- Fedoreyev S.A., Utikina N.K., Ilyin S.G., Reshetnyak M.V. and Maximov O.B.** The structure of dibromo-isophaleolin from the marine sponge Acanthella carteri, 3177
- Fedorynski M** see Moss R.A. 419, 2707
- Fehlhaber H.W** see Khandelwal Y. 6249, see Nadkarni S.R. 5265
- Feigenbaum A** see Poquet A.-L. 2975
- Felder L** see Kozikowski A.P. 4817
- Fell S.C.M** see Bateson J.H. 6001
- Fellous R** see Lemaire F. 5847
- Feng B** see Nakatsuji S. 3399
- Fenical W** see Shin J. 5189
- Fenck C.J** see Curran D.P. 4865
- Feringa B.L., Smits J.A., Wynberg H., Strijtveen B. and Kellogg R.M.** Alkylphosphonic dichlorides, new reagents for the enantiomeric excess determination of chiral alcohols and thiols by <sup>31</sup>P NMR, 997
- Feringa B.L. and Jansen J.F.G.A.** Synthesis of arylimines from N-silylamides and aryllithium compounds, 507
- Ferrari T. and Vogel P.** Long-range substituent effects. The regioselective electrophilic additions of exo-3,6-epoxytetrahydro-phthalide and its derivatives, 5507
- Ferraz H.M.C., Brocksom T.J., Pinto A.C., Abla M.A. and Zocher D.H.T.** The stereoselective synthesis of terpene tetrahydrofurans using thallium triacetate, 811
- Ferrer P** see Gavia F. 4779
- Ferris J.P. and Devadas B.** The synthesis of spiro and bicyclic nucleosides from ribose adducts of diaminonaphthalene, 323
- Ferro M.C** see Boente J.M. 4077
- Ferroud D** see Genet J.P. 4573
- Ferroud D., Gaudin J.M. and Genet J.P.** Bis(arylsulfonyl)methane: a versatile synthon in pheromone

- synthesis, 845  
**Ferroud D., Genet J.P. and Kiolle R.** Synthesis of  $\alpha$ -aminoacids by catalytic palladium (O) alkylation of Schiff bases, 23  
**Fessner W.-D** see Schedelmeier G. 1277  
**Fetizon M., Duc Do Khac and Nguyen Dinh Tho** An approach to the synthesis of optically active trichothecenes from tri-O-acetyl-D-glucal, 1777  
**Feutrell G.I** see Cameron D.W. 2417, 2421, 4999  
**Field L.D. and Gallagher S.P.** Erratum, 4228  
**Fife W.K. and Zhang Z.-d.** Phase managed organic synthesis 2. A new polymer assisted synthesis of acid anhydrides, 4933  
**Font J** see Ortúñoz R.M. 1079, 2519, 1081  
**Foote C.S** see Jiancheng Z. 6153  
**Forman M.A. and Leber P.A.** The thermal rearrangement of *endo*-7-methyl-*exo*-7-vinylbicyclo[3.2.0]-hept-2-ene, 4107  
**Forsyth D.A., Puckace J.S. and Shawcross F.E.** Carbocation NMR isotope shifts analogous to inverse Y-deuterium isotope effects, 3569  
**Fort Y** see Vanderesse R. 5483, 3517  
**Fort Y., Vanderesse R. and Caubère P.** Activation of reducing agents. Sodium hydride containing complex reducing agents 24. Beneficial effect of  $Mg, SiCl$  on the reducing properties of NiCRA, 5487  
**Frylla F.F** see Whitman P.J. 1887  
**Fry A** see Guo Z. 5059, see Kanska M. 5063, see Kokil P.B. 5051, see Pulay A. 5055  
**Frye S.V. and Eliel E.L.** Prevention of chelation by an oxygen function through protection with a triisopropyl silyl group, 3223  
**Fryzuk M.D., Bates G.S. and Stone C.** Transition metal dienyls in organic synthesis: a convenient preparation of  $\sigma$ -bonded tin and zirconium dienyls, 1537  
**Fu P.P** see Yang S.K. 433  
**Fu Z** see Kong F. 5765  
**Fugedi P** see Andersson F. 3919  
**Fülop F., Bernáth G. and Pelczér I.** Stereospecific one-pot synthesis of a new 6,11-dioxa-7-aza-D-homo-

- carboxylic acids via polymer assisted reaction, 4937  
**Figadere B** see Cahiez G. 4445  
**Filardo G** see Silvestri G. 3429  
**Finet J.-P** see Barton D.H.R. 3619, 3615  
**Fischer G., Fritz H. and Prinzbach H.** An intramolecular imine/ene - photo-[2+2]-cycloaddition reaction, 1269  
**Fischer G., Beckmann E., Prinzbach H., Rihs G. and Wirz J.** The benzo-and azo(azoxy)-chromophores as  $\pi_6/\pi_2$ -components in photocyclo-addition reactions, 1273  
**Fischer H** see Neugebauer F.A. 5367  
**Fisher K** see Wender P.A. 1857  
**Fisher M.W** see Cameron D.W. 2417  
**Fishbaugh J.R.** see Dieter P.K. 3823  
**Fitjer L** see Wehle D. 5843  
**Fitjer L., Majewski M., Kanschik A., Egert E. and Sheldrick G.M.** Synthesis and rearrangement of functionalized dispiro[2.1.3.3]-undecanes - preferred  $C_5-C_6$  over  $C_5-C_7$  ring enlargements, 3603  
**Fittion A.O** see Clarke P.D. 91  
**Fittschén C** see Lüttsmann J. 3595  
**Fitz T** see Kometai T. 919  
**Fitzgerald K.J** see Butler R.N. 4921  
**Flammang R** see Maquestiau A. 4023  
**Fleet G.W.J.** see Bashay B.P. 3205, see Dho J.C. 3203  
**Fleet G.W.J., James K., Lunn R.J. and Mathews C.J.** An enantiospecific synthesis of S-quinuclidinol from D-glucose, 3057  
**Fleet G.W.J., James K. and Lunn R.J.** Enantiospecific synthesis of S-quinuclidinol from D-glucose: a strategy for the synthesis of chiral quinuclidines, 3053  
**Fleming I. and Rowley M.** A regio-controlled synthesis of allylstannanes, 5417  
**Fleming M.T** see Butler R.N. 4921  
**Fletcher D., Ablenas F.J., Hopkinson A.C. and Lee-Ruff E.** Doubly destabilized carbocations. Detection and trapping of aryl-bisacarboethoxycarbocations, 4853  
**Florencio F** see de March P. 3673  
**Florio E** see Epling G.A. 1469, 675  
**Floris C** see Cabiddu S. 4625  
**Flynn D.L. and Nies D.E.** A novel Diels-Alder reaction utilizing 3-chloro-1-methoxybutadiene: a short and convergent synthesis of the 5-lipoxygenase inhibitor RS-43179, 5075  
**Flynn G.A. and Giroux E.L.** The synthesis of an aminophosphonic acid converting enzyme inhibitor, 1757  
**Filling P** see Appel R. 1661  
**Fobare W.F** see Grieco P.A. 5067, 1975  
**Fogagnolo M** see Dondoni A. 5269, 3915, 3796  
**Fouquet B** see Joucla M. 1677  
**Fouquay S** see Duhamel L. 4975  
**Fournet G** see Balme G. 1907, 3855  
**Fowler F.W** see Chu M. 461  
**Foxton M.W** see Birtwistle D.H. 4367  
**Franceschi G** see Alpejiani M. 3041, see Battistini C. 513  
**Francisco C.G.** see Betancor C. 4783, see de Armas P. 3195, 5666  
**Francisco C.G., León E.I., Salazar J.A. and Suárez E.** Amino-selenylation of olefins. Synthesis of  $\beta$ -phenylseleno carbamates, 2513  
**Franck-Neumann M., Sedrati M. and Moiki M.** Complexes de trialkylsilyl-2-butadienes fer-tri-carbonyle: reactions de type Friedel-Crafts, double acylation d'une même unite diénique, 3861  
**Franck-Neumann M., Miesch M. and Kempf H.** Reactions de cyclo-propenes électrophiles avec les enaminos et ynamines. Cyclo-adduits bicyclopentaniques et analogues halochrysanthemiques, 5215  
**Fraser R.R. and Mansour T.S.** Erratum, 1640  
**Fraser R.R. and Mansour T.S.** The effect of additives on organolithiums, 331  
**Fraser-Reid B** see Sunay U. 4697, 5335  
**Frazier J** see Atkins R.K. 2451  
**Fréchou C** see Solliadé G. 2867  
**Frei B** see Mullen K. 477  
**Freire R., Marrero J.J., Rodríguez M.S. and Suárez E.** Synthesis of medium-sized lactones: iodosobenzene diacetate an efficient reagent for  $\beta$ -fragmentation of alkoxy-radicals, 383  
**Frejd T** see Jansson K. 753  
**Fremont S.L** see Bellettire J.L. 127  
**French L.G** see Taylor E.C. 1967  
**Freund M** see Braverman S. 1297  
**Fritz H** see Defoin A. 4727, 3135, see Eberbach W. 4003, see Fischer G. 1269, see Schedelmeier G. 1277  
**Froehler B.C.** Deoxynucleoside H-phosphonate diester intermediates in the synthesis of inter-nucleotide phosphate analogues, 5575  
**Froehler B.C. and Matteucci M.D.** Nucleoside H-phosphonates: valuable intermediates in the synthesis of deoxyoligonucleotides, 469  
**Froen D.E** see Simonian S.O. 1245  
**Froidevaux J.-C** see Maurer B. 2111  
**Fronza G., Fuganti C., Grasselli P. and Servi S.** Baker's yeast mediated synthesis of epimeric 2,3-dideoxy-2-C-methyl D-glucose derivatives, 4363  
**Fujii M.** see Yamura Y. 2117  
**Fujihara H** see Furukawa N. 3899  
**Fujihara T** see Fukazawa Y. 5621  
**Fujii M., Ozaki K., Kume A., Sekine M. and Hata T.** Acylphosphonates. 6. Reaction mechanism of  $Zn/Mg, SiCl$  mediated conversion of 2,2,2-trichloroethoxycarbonyl-phosphonates to silyl phosphites, 3365  
**Fujii M., Ozaki K., Kume A., Sekine M. and Hata T.** Acylphosphonates. V. A new method for stereospecific generation of phosphorothioate via arylphosphonate intermediate, 935  
**Fujii T** see Itaya T. 6349  
**Fujiki H** see Sakai S. 5219

- Fujimori K., Fujiwara S., Takata T., and Oae S. Importance of axial ligand in meso-tetraphenyl-porphinatoiron(III) promoted N-O and O-O bonds cleavages, 581
- Fujimori K., Takata T., Fujiwara S., Kikuchi O. and Oae S. Intervention of N,N-dimethyl-anilinium cation radical in the Polonovskii type reaction of N,N-dimethylaniline N-oxide catalyzed by meso-tetraphenyl-porphinatoiron/imidazole, 1617
- Fujimori K., Yaguchi M., Mikami A., Matsuurra T., Furukawa N., Oae S. and Iyanagi T. Kinetic solvent deuterium isotope effect on the oxygenation of N,N-dimethyl-aniline with the pig liver microsomal FAD-containing monooxygenase, 1179
- Fujimori K see Mikami K. 4185
- Fujio M see Mishima M. 939, 951
- Fujioka H see Tamura Y. 2117, 81
- Fujioka T see Miyamoto T. 1153
- Fujisawa T see Itoh T. 5405
- Fujise Y see Fukazawa Y. 1929
- Fujise Y., Nakasato Y. and Itô S. Syn-5,13-dimethyl[2.2]metacyclophane. Synthesis, spectra and thermal stability, 2907
- Fujita H see Wakamiya T. 2143
- Fujita M., Morita T. and Hiyama T. Efficient carbon-carbon bond formation with thermally stable 1,1-dihalo-2,2,2-trifluoroethyl-zinc reagent, 2135
- Fujita M. and Hiyama T. Highly regio- and stereocontrolled halogenation of 1,1-difluoro-2-halo-1-alken-3-ols as applied to polyfluorinated pyrethroid synthesis, 3659
- Fujita M., Hiyama T. and Kondo K. Practical and stereocontrolled synthesis of both (1R\*,3S\*)- and (1R\*,3R\*)- 3-(2-chloro-3,3,2-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylates, 2139
- Fujita M. and Hiyama T. Practical ways from aldehydes to 2-chloro-1,1,1-trifluoro-2-alkenes and 2-chloro-1,1-difluoro-1-alken-3-ols, 3655
- Fujita S see Isogai A. 1161
- Fujita Y see Suzuki S. 69
- Fujiwara J see Maruoka K. 4895
- Fujiwara M see Baba A. 77
- Fujiwara S see Fujimori K. 1617, 581
- Fujiwara T see Takeida T. 3029
- Fujiwara Y see Morimoto Y. 1809
- Fukagawa Y see Yoshioka T. 4335
- Fukazawa Y see Kubota C. 925, see Suzuki K. 3661
- Fukazawa Y., Kodama M., Tsuchiya J., Fujise Y. and Itô S. Conformation of dithia[3.3]-azulenofuran- and -thiophenophanes, 1929
- Fukazawa Y., Usui S., Uchio Y., Shiobara Y. and Kodama M. Conformational study of the membranolide diterpene denticulatolide by molecular mechanics method, 1825
- Fukazawa Y., Fujihara T., Usui S., Shiobara Y. and Kodama M. The photochemical reaction of 9-cyano-anthracene with S-cisoid 2,3-disubstituted butadienes and the molecular structures of their photochemical [4+4]adducts, 5621
- Fukuda H., Hirota M. and Endo T. Relationship between reaction rates and NMR chemical shifts in the reaction of cyclic ketene acetals with methanol, 1587
- Fukuhara K see Iida H. 207
- Fukumoto K see Shishido K. 1167, 971, 1339
- Fukushima H see Nakagawa M. 3235, see Taguchi T. 5117
- Fukuyama T. and Yang L. Synthetic approaches toward mitomycins. I. Stereoselective synthesis of a tetracyclic intermediate, 6299
- Fukuyama T. and Laird A.A. Synthetic approaches toward naphthyridino-mycin. I. Stereoselective synthesis of a tetracyclic intermediate, 6173
- Fukuzawa A., Sato H., Miyamoto M. and Masamune T. Synthesis of (6S,7S)-trans-laurediol and its [9,10- $\text{H}_2$ ]-analogue, 2901
- Fukuzumi K see Kodama M. 2157
- Funahashi H see Yoshida J. 4469
- Furukata K see Sasaki T. 1603
- Furuhata T. and Ando W. MCSCF Studies of thioxoyl intermediate, 4035
- Furukawa N see Fujimori K. 1179
- Furukawa N., Shibusaki T., Matsunaga K., Fujihara H. and Oae S. Reactions of pyridyl and quinolyl sulfoxides with Grignard reagent: a convenient preparation of pyridyl and quinolyl Grignard reagents, 3899
- Furukawa K., Iwanaga K. and Yamamoto H. Asymmetric Diels-Alder reaction. Cooperative blocking effect in organic synthesis, 4507
- Furuya T see Isogai A. 1161
- Gai Y.-Z see Kabalka G.W. 3843
- Gait M.J see Christodoulou C. 1521
- Galaeva M.F see Kas'jan L.A. 2921
- Galan A.A., Lee T.V. and Chapleo C.B. Novel trichloroacetyl based silylations: simple methods for t-butylidemethylsilylations and for the protection of amino groups, 4995
- Galeazzo R.A., Jr see Durham P.J. 123
- Gaino A see González A. 2771
- Gallagher S.P. see Field L.D. 4228
- Gallagher T see Lathbury D. 6009
- Gambino S see Silvestri G. 3429
- Gamble C.B. see Cameron D.W. 4999
- Gambino R. and Tamm C. Structure and diastereoselectivity of the  $\alpha$ -hydroxylation of chiral ester enulates by molybdenum peroxy complex, 3999
- Ganguli B. N see Nadkarni S.R. 5265
- Gani D see Stevenson D.E. 5661
- Gano J.E. see Lenoir D. 5339
- García-Blanco S see Alcalde B. 4217, see de March P. 3673
- Garcia-González M.T. see Alcaide B. 4217
- Garcia B see Barton D.H.R. 1327
- Garcia E. A see Krafft G.A. 2691
- Garcia J., Villarrasa J., Bordon X. and Banaszek A. New synthetic "tricks". One-pot preparation of N-substituted p'ththalimides from azides and phthalic anhydride, 639
- Garcia-Pons T see Gawley R.E. 5185
- Gardner J.H. see Kawai M. 1877
- Garegg P.J. see Andersson F. 3919
- Garegg P.J., Lindh I., Regberg T., Stawinski J., Strömberg R. and Henrichson C. Nucleoside H-phosphonates. III. Chemical synthesis of oligodeoxyribonucleotides by the hydrogen-phosphonate approach, 4051
- Garegg P.J., Lindh I., Regberg T., Stawinski J., Strömberg R. and Henrichson C. Nucleoside H-phosphonates. IV. Automated solid phase synthesis of oligoribonucleotides by the hydrogen-phosphonate approach, 4055
- Garegg P.J., Regberg T., Stawinski J. and Strömberg R. Studies on the reaction of nucleoside phosphodiesters with aryl sulfonyl chlorides, 2665
- Garrison P.J. and Tsozinis A. Alternative syntheses and Diels-Alder reactions of 2,3-bis(trimethylsilyl)buta-1,3-diene, 2761
- Garrigues B. and Lazraq M. Synthese d'a-aminodialdehydes, 1685
- Garrison W.J. see Larson R.A. 3987
- Garst J.F., Hines J.B., Jr. and Bruhnke J.D. Suppressing the cyclization of (1-methyl-5-hexenyl)sodium, 1963
- Garst M.E., Tallman E.A., Bonfiglio J.N., Harcourt D., Ljungberg E.B. and Tran A. Total synthesis of manoalide, 4533
- Gartmann T.C. see Davies H.G. 1093
- Gassman P.G., Okuma K., Lindbeck A. and Allen R. Mechanistic insights into the opening of epoxides with trimethylsilyl cyanide - zinc iodide, 6307
- Gaston R.D. see Williams D.R. 1485
- Gateau-Olesker A., Cléophax J. and Gérot S.D. Chiral synthesis of 3,4-disubstituted 2-azetidinones from (R,R)-(+)-tartaric acid, 41
- Gatto V.J. see Gustowski D.A. 3487
- Gatto V.J., Arnold K.A., Viscontiello A.M., Miller S.R. and Gokel G.W. Novel synthetic access to 15- and 18-membered ring diaza-bibrachial lariat ethers (BIBLEs) and a study of sidearm-macroring cooperativity in cation binding, 327
- Gaudin J.M. see Ferroud D. 845
- Gauthier J.Y. see Young R.N. 539
- Gauthier J.Y., Bourdon F. and Young R.N. A mild and efficient synthesis of thioesters from alcohols, 15
- Gavai A.V. see Piers E. 313
- Gavina F., Luis S.V., Sañón V.S., Ferrer P. and Costero A.M. Evidence for the formation of 1,3- and 1,4-dehydrobenzenes in the thermal decomposition of diaryliodonium-carboxylates, 4779
- Gawley R.E. and Chemburkar S. Generation and cyclization of nitrilmium ions from amides. Asymmetric synthesis of fused azabicyclics, 2071
- Gawley R.E. and Garcia-Pons T. Kinetics of uncatalyzed isomerization of aliphatic ketoximes, 5185
- Gérot S.D. see Gateau-Olesker A. 41
- Gedye R., Smith F., Westaway K., Ali H., Baldisera L., Laberge L. and Roustell J. The use of microwave ovens for rapid organic synthesis, 279
- Geffroy G. see Defoin A. 4727, 3135
- Gellibert F. see Heitz M.P. 3859
- Genet J.P. see Ferroud D. 23, 845
- Genet J.P. and Grisoni S. Ergoline precursors 2. An efficient synthesis of C ring by palladium (0) catalyzed reactions, 4165
- Genet J.P., Ferroud D., Juge S. and Montes J.R. Synthesis of  $\alpha$ -amino acids. Schiff base of glycine methyl ester. A new and efficient prochiral nucleophile in palladium chiral catalytic allylation, 4573
- Gennari C. see Palazzi C. 1735
- Gentic D., Le Bihan J.-Y., Senechal-Tocquer M.-C., Senechal D. and Caro B. Comportement des allylbenzenes chrometricarbonyle en milieu basique, 3849
- Gerwick W.H., Lopez A., Van Duyne G.D., Clardy J., Ortiz W. and Baez A. Hormothamnione, a novel cyto-

- toxic styrylchramone from the marine cyanophyte *Hormothamnion enteromorphoides grunow*, 1979
- Gesson J.-P.,Jacquesy J.-C. and Renoux B.** A new annulation of carvone to chiral trans and cis fused bicyclic ketones, 4461
- Ghafari M** see Khalaj A. 5019
- Ghatak U.R** see Saha B. 3913
- Gheffi F** see Bellesse F. 381
- Ghera E.,Maurya R. and Ben-David Y.** Synthesis of 2,3-dihydro-2H-pyran-2-one, 2005
- Ghozéz L** see De Lombaert S. 5099
- Ghozéz L.,Marko I. and Hestain-Frisque A.-M.** Intramolecular cycloadditions of keteniminium salts. A novel approach toward prostaglandins, 5211
- Ghosh S** see Bhide R.S. 671
- Ghosh S.K. and Sarkar T.K.** Stereoselective control in type 1 intramolecular ene reactions of 1,6-dienes: trends in reactivity and selectivity upon substitution, 525
- Giacomini D** see Andreoli P. 1695
- Giangiordano M.A** see Davis F.A. 3957
- Giansiracusa J.J** see Kelly D.P. 2311
- Giguere R.J.,Bray T.L.,Duncan S.M. and Majetich G.** Application of commercial microwave ovens to organic synthesis, 4945
- Gil G** see Pellissier H. 3505, 2979
- Gilbert A** see Cornelisse J. 5003
- Gilbert L** see Bloch R. 3511
- Gilday J.P. and Widdowson D.A.** Fluorine directed lithiation in tricarbonylarenechromium(O) complexes: the regiospecific synthesis of polysubstituted arenes, 5525
- Gill M.,Kiebel M.J. and Lally D.A.** Addition of organomagnesium reagents to cyanohydrin-O-silyl ethers: an efficient and flexible synthesis of unsymmetrically substituted acyloins, 1933
- Gilow H.M.** The synthesis of 1-alkyl-thiopyrroles, 4689
- Giral L.,Fabre J.M. and Couasamia A.** New conducting salts containing unsymmetrical  $\pi$ -donors, 4315
- Giralt E** see Pedroso E. 743
- Giroux E.L** see Flynn G.A. 1757
- Givre S** see Chu M. 461
- Glänzer B.I.,Faber K. and Griengl H.** Enantioselective hydrolysis by baker's yeast, 4293
- Glans J.H** see Pearson W.H. 6301
- Glatzhofer D.T. and Longone D.T.** 4,14-Divinyl-(E,E)-[4,4]paracyclophane-1,11-diene. An unusual product from a 1,10-Hofmann elimination, 5923
- Glinka T** see Williams R.M. 3581
- Glue S.E.J** see Kay I.T. 113
- Gnedko L.Yu** see Kas'jan L.A. 2921
- Görge L** see Seitz G. 2747
- Gözler B.,Guinaudeau H.,Shamma M. and Sariyar G.** The photolysis of proaporphines, 1899
- Godfrey A** see Linderman R.J. 4553
- Godfrey J.D.,Jr** see Slusarchyk W.A. 2789
- Godfrey J.D.,Jr.,Mueller R.H. and Von Langen D.J.**  $\beta$ -Lactam synthesis: cyclization versus 1,2-acyl migration-cyclization. The mechanism of the 1,2-acyl migration-cyclization, 2793
- Goering H.L. and Paisley S.D.** Oxiranylidene intermediate in the reaction of trans-2-chloro-3-tert-butyloxirane with sodium peroxide, 4399
- Goh S.H. and Ali A.R.M.** Ring-opened indole alkaloidal artefacts from *Leuconotis* species and the facile ring reclosure of leuconolam, 2501
- Gokel G.W** see Gatto V.J. 327, see Gustowski D.A. 3487
- Goldberg I** see Braverman S. 1297
- Goldsmith D.J. and Soria J.J.** Cyclo-addition-rearrangement of cyclohexadienol ethers. A versatile and selective synthesis of cyclopentenoid systems, 4701
- Golebiowski A** see Jurczak J. 853
- Gomez-Galeno J** see Tius M.A. 2571
- Gompper R. and Guggenberger R.** Preparation of cyclic polyesters, 1301
- Gompper R.,Binder R. and Wagner H.-U.** Stable dications of tetra-amino-*p*-benzoquinones, 691
- González Á.,Galindo A.,Palenzuela J.A. and Mansilla H.** Biomimetic synthesis of 5*α*-hydroxy-guaianolides, 2771
- González A.M** see Alberola A. 2027
- González B** see Alberola A. 2027
- González J.M** see Barluenga J. 3303, 1715
- Goodson B. and Schuster C.B.** Salt effects in photoinduced electron transfer reactions, 3123
- Goody R.S. and Isakov M.** Simple synthesis and separation of the diastereomers of  $\alpha$ -thio analogs of ribo- and deoxyribo- di- and triphosphates, 3599
- Gopal D. and Rajagopalan K.** A facile synthesis of 3-methyl-2*H*-1-benzopyrans via Claisen rearrangement, 5883
- Gore J** see Balme G. 1907, 3855, see Chilot J. 849, see Mas J.-M. 3133
- Gorgues A** see Stephan D. 4295
- Gossein P.** Nouvelle application de la réaction des organomagnésiens sur les dithioesters: synthèse de la gamma-damascone, 5495
- Goti A** see Brandi A. 1727
- Goti A.,Brandi A.,De Sarlio F. and Guarna A.** New synthesis of azepin-4-ones by flash vacuum thermolysis of dihydron and tetrahydrosoxazole-5-spirocyclobutane derivatives, 5271
- Goto M** see Ando W. 5105
- Goto T** see Isobe M. 963, see Nakatsuka S. 3399, 6245, 4327, 6361, 2391, 2753, 5735, 4757, see Okamoto K. 5229, 5233, see Tamura H. 1801
- Gottlieb L** see Becker D. 3775
- Couasmia A** see Giral L. 4315
- Gouguetas J** see Slusarchyk W.A. 2789
- Gouguetas J.Z** see Thottathil J.K. 1533
- Gould I.R** see Moss R.A. 4125
- Gould S.J** see Prabhakaran P.C. 3815, see Sato Y. 143
- Gourcy J.-G** see Bolte J. 565
- Gowriswari V.V.L** see Basavaiah D. 2031
- Graff M.,Al Dilaimi A.,Seguinéau P.,Rambaud M. and Villieras J.** La réaction de Wittig-Horner en milieu hétérogène IX. Bis aldolisation des phosphonates à partir des dialdehydes aliphatiques en milieu aqueux peu basique. Synthèse de cyclénols fonctionnels, 1577
- Grandas A** see Pedroso E. 743
- Granger-Veyron H** see Cahiez G. 4441
- Granzer E** see Bartmann W. 4709
- Grasselli P** see Fronza G. 4363, see Fuganti C. 5275, 3191, 2061
- Gravier C** see Le Merrer Y. 4161
- Grée R.,Tourbah H. and Carré R.** Fumaraldehyde monodimethyl acetal, an easily accessible and versatile intermediate, 4983
- Greek C** see Duréault A. 4157
- Greek C.,Grieco P.,Ley S.V. and Wonnacott A.** Preparation of spiroketals by reaction of anions from 2-benzenesulphonyltetra-hydropyrans with epoxides: synthesis of the C-11 to C-25 fragment of the milbemycins, 5277
- Green J.R** see Majewski M. 531
- Green J.R.,Majewski M.,Alo B.I. and Snieckus V.** Y-Silylated  $\alpha$ , $\beta$ -unsaturated amides. Formation by [1,5] silicon migration from O-silylated vinyl ketene aminals and fluoride- and Lewis acid-
- Greeves N. and Warren S.** Stereochemically controlled synthesis of unsaturated hydroxy-acids by the Horner-Wittig reaction, 259
- Gref A** see Balavoine G. 2849
- Grein F** see Lavallée J.-F. 5455
- Gremier L** see Lavallée P. 679
- Grieco P** see Greek C. 5277
- Grieco P.A.,Larsen S.D. and Fobare W.F.** Aza Dieis-Alder reactions in water: Cyclocondensation of C-acyl iminium ions with cyclopentadiene, 1975
- Grieco P.A. and Fobare W.F.** Intramolecular variants of amino-methano desilylation: reactions of in situ generated immonium ions with allylsilanes, 5067
- Grieco P.A. and Margund R.P.** Synthetic studies on diterpenes from a termite soldier: total synthesis of (*t*)-biflora-4,10(19),15-triene, 4813
- Grief V.J** see Donaldson W.A. 2345
- Griengl H** see Podenteich M. 4291, see Eichberger G. 2843, see Glänzer B.I. 4293
- Grierson D.S** see Bonin M. 1569
- Griesbeck A** see Adam W. 2839
- Grieser H** see Schmidt U. 163
- Griffith D.A** see Daub G.W. 6311
- Griffiths P.G** see Cameron D.W. 2421, 2417
- Grimaldi J. and Cormons A.** Cyclisation d'amides  $\alpha$ -alleniques en dihydro-3,6 1*H*-pyridones-2, 5089
- Grim E.L** see Lansbury P.T. 2725
- Grisoni S** see Genet J.P. 4165
- Grootaert W.M. and De Clercq P.J.** A novel expeditious entry into gibberellins. The total synthesis of (*t*)-GA<sub>1</sub>, 1731
- Gross R.S** see Demir A.S. 5567
- Grossman S.J** see Agarwal S.K. 4253
- Grossmann E** see Proksa B. 5413
- Griger F. and Szelimies G.** 3,3',3'-Tetramethyl-2,2'-bis(trimethylsilyl)-1,1'-bicyclopropenyl: synthesis and isomerization, 1563
- Grund C** see Sedelmeier G. 1277
- Gu Q.-M.,Chen C.-S. and Sih C.J.** facile enzymatic resolution process for the preparation of (+)-S-2-(6-methoxy-2-naphthyl)-propionic acid (Naproxen), 1763
- Gu Q.-M.,Reddy D.R. and Sih C.J.** Bifunctional chiral synths via biochemical methods. VIII. Optically-active 3-aryloxy-2-methylpropionic acids, 5203
- Günther H.,Moskau D.,Dujardin R. and Maercker A.**  $^6\text{Li},^7\text{Li}$ -Cosy - a new tool for structure determinations of lithium organic compounds in solution, 2251
- Guenti G.,Banfi L.,Marisano E.,Riva R. and Thea S.** Enzymes in asymmetric synthesis: effect of reaction media on the PLE catalysed hydrolysis of diesters, 1639
- Guenti G.,Banfi L. and Marisano E.** Microbiological synthesis of variously protected L-glyceraldehydes in high optical purity, 3547

- Guarna A** see Brandi A. 1727, see Goti A. 5271
- Guescous A** see Maignan C. 2603
- Guest A.W.**  $\alpha$ -Carboxy and  $\alpha$ -carbamoyl penicillins, 3049
- Guetté J.P** see Roussel J. 27
- Guggenberger R** see Comper R. 159
- Gubé F., Danglos O. and Balavoine G.** Palladium-catalyzed reaction of tributyltin hydride. Selective and very mild deprotection of allyl and allyloxycarbonyl derivatives of amino-acids, 2365
- Guillemin J.C., Denis J.M., Boegly M.** and Destombes J.L. Very mild interconversion between amino-acetonitrile and the interstellar species methanimine and hydrogen cyanide, 1147
- Guillerm D. and Linstromelle G.** Stereoselective synthesis of polyenic alcohols. A new route to the leukotrienes B, 5857
- Guinaudeau H** see Gözler B. 1899
- Guindon Y., St. Denis Y., Daigleault S. and Morton H.E.** Synthetic utility of chiral tetrahydrofurans: preparation of (1R,3R,5S)-1,3-dimethyl-2,9-dioxabicyclo[3.3.1]octane, 1237
- Guingant A. and d'Angelo J.** Approach to the aklavinone series through a new high pressure-induced [BCD $\rightarrow$ ABCD] cycloaddition strategy, 3729
- Guirado A., Barba F., Hursthouse M.B., Martínez A. and Arcas A.** Electrochemical reduction of phthalyl chloride. A new route for the synthesis of 3-substituted phthalides, 4063
- Guo G.Z** see Dai L. 4343
- Guo Z. and Fry A.** Carbon-14 kinetic isotope effects and mechanism in the solvolysis of 1,1,1-trifluoro-2-phenyl-2-propyl-3- $^{14}\text{C}$ p-toluenesulfonate, 5059
- Gupta B.D. and Roy S.** Homolytic displacement at carbon: first example of  $\alpha$ -attack in the allenyl and propargyl cobaloximes, 4905
- Gupta B.D., Kumar M., Das I. and Roy M.** Homolytic displacement at saturated carbon centre: synthesis of benzylsulphones, 5773
- Gupta Y.N., Patterson R.T., Bimanand A.Z. and Houk K.N.** Synthesis of an azulene lactone by an intramolecular [6+4] cycloaddition, 295
- Guram A** see Kraft G.A. 2691
- Gusei 'nikov L.E** see Ziegler U. 5825
- Gustavson L.M** see Raucher S. 1557
- Gustowski D.A., Delgado M., Gatto V.J., Echegoyen L. and Gokel G.W.** Geometrical and electronic cooperativity in cation-mediated electrochemical reductions of anthraquinone-substituted podands, 3487
- Guy A** see Roussel J. 27
- Guyot M** see Chebaane K. 1495, see Litaudon M. 4455
- Guyot M. and Meyer M.** An 3-indolyl-imidazol-4-one from the tunicate *Dendrodoa grossularia*, 2621
- Gybini A.S** see Simonian S.O. 1245, see Smit W.A. 1241
- Gyor M** see Rockenbauer A. 3425, 3421, 3763
- Gyor M., Rockenbauer A. and Tüdös F.** Spin trapping reactions with nitric oxides. I. Dialkyl nitroxides, 3759
- Gyor M., Rockenbauer A. and Tüdös F.** Spin trapping reactions with nitric oxides. V. Reactions with unsaturated macromolecular chains - a new spin labeling method, 4795
- Haddad N** see Becker D. 6393
- Hadel L.M** see Moss R.A. 4125
- Hafner K. and Knaup G.L.** Synthesis and dynamic properties of 1,2,5,6,8,10-hexamethyl-heptalene, 1665
- Hafner K., Hock N., Knaup G.L. and Meinhardt K.-P.** Synthesis of di-, tetra- and penta-methyl-heptalenes, 1669
- Hafner K. and Knaup G.L.** Thermal skeletal rearrangements of dimethyl 1,2-heptaledicarboxylates, 1673
- Hagibara T** see Hayashi T. 191
- Hahn C.S** see Kim K.S. 2875
- Haigh D** see Crambie L. 5151, 5147
- Hale K.J** see Smith A.B. 5813
- Halberg A., Svensson A. and Martin A.R.** An intramolecular anionic fries rearrangement of N-acylphenothiazines, 1959
- Hallen R.T** see Samuels W.D. 3091
- Hallmén G. and Ullénius C.** Intramolecularly assisted addition of LiMe<sub>2</sub>Cu to methyl cinnamates, 395
- Halterman R.L. and Vollhardt K.P.C.** Practical synthesis of two annelated optically active cyclopentadienes from the chiral pool and their transition metal complexes, 1461
- Halton B** see Buckland S.J. 1309
- Halton B., Buckland S.J., Mei Q. and Stang P.J.** Benzocalicenes and benzotriahettapentalenes from cyclopropenes, 5159
- Ham W** see Paquette L.A. 2341
- Hamachi I** see Tabushi I. 5401
- Hamada T** see Tanaka T. 3651
- Hamada Y** see Corey E.J. 2199, 3556, see Kato S. 2653
- Hambley T.W., Poiner A. and Taylor W.C.** Diterpene metabolites of the marine sponge *Chelonaplysilla violacea*: apliyiolene and apliyolacene, 3281
- Hamby G.F. and Chan T.H.** Reactions of enol silyl ethers with N-halosuccinimide - a stepwise process, 2563
- Hamelin J** see Mkhairi A. 4435, see Pellon P. 4299, 5611
- Hamer N.K.** A new route to cyclopentane-1,3-diones, 2167
- Hamilton A.D** see Larkins H.L. 2721
- Hamilton B.J** see Keller J.W. 1249
- Hammond G.B., Calogeropoulou T. and Wiemer D.F.** The 1,3-migration of phosphorus from oxygen to carbon: a new synthesis of  $\beta$ -keto-phosphonates from enol phosphates, 4265
- Hans B.H.M** see Dijkstra P.J. 3183
- Hamzah A.S** see Aldersley M.F. 255
- Hanack M., Ritter K., Stein I. and Hiller W.** Darstellung und Röntgenstrukturanalyse eines Heptafulvenyltosylats, 3357
- Hanafusa T** see Chatani N. 1841, 4201, see Shimada M. 5649, see Yanaguchi S. 2411
- Hanamoto T** see Uchikawa M. 4577
- Hanamoto T., Katsumi T. and Yamaguchi M.** Asymmetric dialkylation of  $\alpha$ -cyanoic acid, 2463
- Hanaoaka M** see Yasuda S. 2023
- Hancock K.L. and Gadru K.** Zn/OH- Reductions of organic compounds in dimethylsulfoxide: a new simple method of preparing radical anions, 1371
- Hane J.T** see Trost B.M. 5691, 5695
- Hanedo T** see Sato M. 6091
- Hanessian S., Beaulieu P. and Dubé D.** A novel synthetic route to the hexahydrobenzofuran subunit of the avermectins and milbemycins, 5071
- Hanessian S. and Alpegiani M.** Highly chemoselective and stereocontrolled access to 6-alphamethyl penicillanates, 4857
- Hanessian S., Ugolini A., Hodges P.J. and Dubé D.** The controlled degradation of avermectin B<sub>1a</sub>, 2699
- Hanessian S., Hodges P.J., Sahoo S.P. and Roy P.J.** The use of 3-phenylselenobutanal as a crotonaldehyde equivalent in synthesis, 2949
- Hangauer D.G.** Total synthesis of erbstatin, 5799
- Hannaby M. and Warren S.** Alkyl migration including ring contraction from a migration origin bearing a phenylthio (PhS) group, 1069
- Hannaby M. and Warren S.** Rearrangement of cyclic alcohols with an adjacent phenylthio (PhS-) group: migration of a PhS group around a ring, 765
- Hanson G.J., Baran J.S. and Lindberg T.** Stereoselective addition of lithioethyl acetate to BOC-L-proinal. A convenient chiral synthetic building block for the pyrrolizidine alkaloid ring system, 3577
- Hara S** see Hyuga S. 977
- Harada N** see Okada K. 4493
- Harada S., Tsubotani S., Hida T., Ono H. and Okazaki H.** Structure of lacticin, an antibiotic having a new nucleus and similar biological activities to  $\beta$ -lactam antibiotics, 6229
- Harcourt D** see Garst M.E. 4533
- Hardinger S.A** see Hutchinson D.K. 1425
- Harger M.J.P. and Williams A.** Methoxide-induced rearrangement of some N-t-butyl  $\alpha$ -chlorophosphonamides evidence for azaphosphoridine oxide intermediates, 2313
- Harnos S., Tivakornpannarai S. and Waali E.E.** The addition of 1,2-cyclohexadiene to substituted styrenes, 3701
- Harpp D.N., Bodzay S.J., Aida T. and Chan T.H.** High yield preparation of cyclic disulfides using alkyltin thiolates, 441
- Harpp D.N. and Kobayashi M.** Preparation of thiols using  $\alpha$ -trimethylsiloxy derivatives, 3975
- Harrison D.M** see Brat B. 5873
- Harrison D.M. and Sharma R.B.** The formation and intramolecular acylation of a 1,2-dihydro- $\beta$ -carboline derivative. A model sequence for the total synthesis of fumitremorgins, 521
- Hartke K., Richter W., Massa W. and Baum G.** Tautomer rearrangements and intramolecular Diels-Alder reactions of dicyanovinyl and (cyanoimino)alkyl groups in the tropolone series, 2743
- Hartwig J.F., Jones M.J., Jr., Moss R.A. and Lawrynowicz W.** A photochemical source of dibromo- and dichlorocarbene  $^{1,2}$ , a cautionary tale regarding the stereochemistry of dibromocarbene addition reactions, 5907
- Harwood L.M** see Berry N.M. 2319
- Hasebe K** see Yamaguchi M. 2401, 959
- Hasebe M. and Tsuchiya T.** Photochemical generation of aliphatic radicals from benzophenone oxime esters: simple synthesis of alkylbenzenes and alkylpyridines, 3239
- Hashimoto K** see Fuji K. 5381, see Konno K. 3865, 607
- Hashimoto M** see Uchida I. 2015
- Hashimoto S** see Corey E.J. 2199, 3556

- Hashimoto S., Shinoda T. and Ikegami S.** A novel lithium iodide-promoted vinylcyclopropane-cyclopentene rearrangement: efficient synthesis of bicyclo[3.3.0]oct-6-en-2-one, versatile building block for a library of compounds. 4195
- Hassan Kh.M** see Dallemande P. 2607
- Hassner A** see Chawla H.M. 4619
- Hassner A. and Naidorf S.** Photochemical generation of vinylketenes by electrocyclic opening of cyclobutenes, 6389
- Hassner A. and Murthy K.S.K.** Stereo-selective synthesis of ptilocaulin and its 7-epimer, 1407
- Hata N** see Ohnuma T. 219
- Hata T** see Fujii M. 3365, 935, see Matsuzaki J. 5645, see Tanimura H. 4047
- Hatakeyama S., Sakurai K. and Takano S.** Enantio- and stereo-selective synthesis of 2,6-dideoxyhexoses from divinylcarbinol, 4485
- Hatanaka N., Ozaki O. and Matsumoto M.** A facile synthesis of 4-(sulfonylmethyl)indoles from 4-oxo-4,5,6,7-tetrahydroindole; formal total synthesis of 6,7-secoagroclavine, 3169
- Hatanaka Y. and Kuwajima I.** An intramolecular acylation of oleins directed by trimethylsilyl group. Synthesis of 2-cyclopropylcycloalkanes, 719
- Hatano M** see Morita N. 3873
- Hatem J., Meslam J.M. and Waegell B.** Further evidence of SET mechanism during the LAH reduction of optically active 1-bromo 1-methyl 2,2-diphenyl cyclopropane, 3723
- Hatfield L.D** see Boyd D.B. 3457, 3458
- Hattori M** see Takahashi H. 4477
- Hauke P** see Still W.C. 2727
- Hautier G., Alvergne G. and Laurent A.** Different selectivities in bromofluorination reactions using *N*-bromosuccinimide/triethylamine tris hydrofluoride or Olah's reagent, 4449
- Hauptmann H., Mühlbauer G. and Sasse H.** Identifizierung und Synthese von Periplanon A, 6189
- Hauptmann H., Mühlbauer G. and Walker N.P.C.** Synthese und Kristallstruktur von (*±*)-periplanon B, 1315
- Hauser A** see Maurer B. 2111
- Hawkins L.D** see Cheon S.H. 4759
- Hayakawa H** see Ando W. 6357
- Hayakawa K., Ohnuki S. and Kanematsu K.** A highly efficient synthesis of bicyclo[n.3.1] ring systems by allene intramolecular cycloaddition: tandem intramolecular [2+2] cycloaddition-[3,3]-sigmatropic rearrangement, 4205
- Hayakawa K., Yasukouchi T. and Kanematsu K.** A new approach to the efficient indole synthesis by allene intramolecular cycloaddition, 1837
- Hayakawa K., Ohnuki S. and Kanematsu K.** General approach for the stereorecontrolled synthesis of tricyclic lactones via allene intramolecular cycloaddition. An approach to the synthesis of (*±*)-platyphyllide, 947
- Hayakawa Y., Uchiyama M. and Noyori R.** Nonaqueous oxidation of nucleoside phosphites to the phosphates, 4191
- Hayakawa Y., Uchiyama M. and Noyori R.** Solid-phase synthesis of oligodeoxyribonucleotides using the bis(trimethylsilyl) peroxide
- oxidation of phosphites, 4195
- Hayama T** see Ikegami S. 3403
- Hayashi K** see Takayama H. 5509
- Hayashi T., Yamamoto A., Hagiwara T. and Ito Y.** Modification of optically active ferrocenyl-phosphine ligands for palladium-catalyzed asymmetric alkene polymerization, 1411
- Hayashi Y** see Nishizawa M. 3255, 187, see Uemura M. 967, 2479
- Hayashimatsu M** see Cho H. 6377
- Hayasi Y** see Shinoda M. 87
- Haynes R.K. and Hilliker A.E.** Photo-induced reactions of 38-acetoxycholesta-5,7-diene, 38-acetoxycholest-5-ene, tetraphenylcyclopentadiene and 1,1-diphenylethylene with oxygen in the presence of phenylselenenyl bromide, 509
- Hazato A** see Bannai K. 6353
- Heaney H** see Cooper M.S. 5011, see Eley S.C. 6275
- Heathcock C.H** see Oare D.A. 6169
- Heathcock C.H. and Arseniyadis S.** Erratum, 770
- Heberg K** see Chen Y.L. 3449
- Heesing A** see Bussmann R. 561
- Hehre W.J** see Kahn S.D. 6041
- Heinicke J.** 1H-1,3-Azaphosphole-ne Phosphaarenaten, 5699
- Heinze I** see Eberbach W. 4003
- Heinze P** see Dolbier W.R., Jr. 4387
- Heitmann P** see Reetz M.T. 4721
- Heitz M.P., Geilbert F. and Mioskowski C.** Additions nucleophiles diastereoselectives sur un monoacetal chiral du glyoxal, 3859
- Heilberg L.H., Beeson C. and Somanathan R.** Synthesis of the spirocyclic alkaloid nitramine, 3955
- Helle M.A** see Tackacs J.M. 1257
- Helquist P** see Connell R. 5559
- Henin F** see Mortezaei R. 2997, see Piva O. 3001
- Henin P., Muzart J. and Pete J.-P.** Palladium-catalyzed synthesis of  $\alpha$ -methylene Y-butyrolactans via cyclisation of homocyclic chloroformamides, 6339
- Henrichson C** see Garegg P.J. 4051, 4055
- Herbert R.B. and Knagg E.** The biosynthesis of the phenethylisoquinoline alkaloid, colchicine, from cinnamaldehyde and dihydrocinnamaldehyde, 1099
- Herczegh P., Zsély M., Bognár R. and Szilágyi L.** Cycloaddition reactions leading to carbohydrate derivatives Part I. Hetero Diels-Alder reactions of monosaccharide O-thioformates, 1509
- Hernández R** see de Armas P. 3195, 5666
- Hernandez P.E** see Nicolaou K.C. 1881
- Herrmann R** see Youn J.-H. 1493
- Hershberger P.M** see Winkler J.D. 5177
- Heubain-Frisque A.-M** see Ghosez L. 5211
- Heeslin J.C., Moody C.J., Slawin A.M.Z. and Williams D.J.** Synthesis of cyclic ethers by rhodium carbenoid cyclisation, 1403
- Hey J.P** see Winkler J.D. 5959
- Heyer D. and Lehn J.-M.** Anion coordination chemistry - synthesis and anion binding features of cyclophane type macrobicyclic anion receptor molecules, 5869
- Hibi S** see Kashima C. 2131
- Hida T** see Harada S. 6229
- Hiemstra H** see Melching K.H. 4799
- Hiemstra H., Klaver W.J. and Speckamp W.N.** Regioselective synthesis of (*±*)-gabaculine, 1411
- reactions, 5007
- Hill M.L. and Raphael R.A.** Total synthesis of the antiviral ( $\pm$ ) virantmycin, 1293
- Hiller W** see Hanack M. 3357
- Hilliker A.E** see Haynes R.K. 509
- Hiller K. and Neumann W.P.** Additions of a stable stannylenes  $R_2Sn$  to vinyl carbonyl compounds and 1,2-diketones, 5347
- Himeno Y** see Otero J. 4501
- Hines J.B., Jr** see Garst J.F. 1963
- Hino T** see Nakagawa M. 3235, 6217, 6087, see Taniguchi M. 4763, 4767
- Hirama M., Nakamine T. and Itô S.** Enantiospecific synthesis of the spiroacetal unit of avermectin B<sub>1</sub>, 5281
- Hirao T., Misu D., Yao K. and Agawa T.** Highly chemoselective coupling reactions of organovanadium compounds, 929
- Hirao T., Misu D. and Agawa T.** Versatile synthesis of  $\alpha$ -acetylenic ketones by oxidative nucleophilic addition of vanadium acetylides, 933
- Hirata Y** see Kobayashi J. 1191, 2113, 5755, see Nakamura H. 4319
- Hirube M** see Yanada K. 5113
- Hiramoto Z** see Ichinose N. 5619
- Hirooka S** see Ojima J. 2467
- Hirose T** see Ueda R. 1183
- Hirota K** see Sako M. 3877
- Hirota K., Kitade Y., Sajiki H. and Maki Y.** Novel reaction of 5-nitro(or carbonyl)uracil derivatives with amines. Thermal exchange reaction of N<sub>1</sub>-portion of their uracils for amines via ring-opening and ring closure processes, 3263
- Hirota M** see Fukuda H. 1587
- Hiroya K** see Shishido K. 1167, 971
- Hitosuyanagi Y** see Sakai S. 5219
- Hiyama T** see Fujita M. 2135, 3655, 2139, 3659, see Kusumoto T. 4197, see Saito M. 1607, 597
- Ho K.-M., Chan M.-C. and Luh T.-Y.** Nickelocene/lithium aluminium hydride-A "Homogeneous raney nickel" for catalytic hydrogenation, 5383
- Hock N** see Hafner K. 1669
- Hocquaux M** see Barre G. 6197
- Hodges P.J** see Hessian S. 2699, 2949
- Hoffman R.V. and Carr C.S.** Regioselective synthesis of  $\alpha$ -aryl-sulfonyl ketones from ketone derivatives, 5811
- Hoffmann H.M.R** see Joshi N.N. 687
- Hogeveen H** see Broxterman Q.B. 1055, see Eleweld M.B. 631, 635
- Hogeveen H. and Mengel W.M.P.B.** Enantioselective carboxylation of a prochiral enolate in the presence of a chiral lithium amide, 2767
- Hojo M., Masuda R. and Okada E.** Electrophilic substitutions of olefinic hydrogens: acylation of 1,1-bisalkylthio-1,3-alkadienes and trans-N-acetyl-N-isopropyl-1-amino-3-butadiene, 353
- Holden M.S** see Pearson A.J. 4121
- Holmes A.B** see Carling R.W. 6133
- Holtan R.A** see Kraft M.E. 2087
- Holtan R.A. and Kim H.-B.** Efficient synthesis of chiral 2-(*p*-tolysulfanyl)-2-butenolides, 2791

- Honda K see Iyoda T. 5633  
 Honda M. and Komori T. Structures of thornasterols A and B (biologically active glycosides from asteroidia, XI), 3369  
 Honda T see Sakaki T. 593, see Shishido K. 1339  
 Hongi M see Nakagawa M. 3235, 6217  
 Hoornaert G see Tutonda M. 2509  
 Hof H. and Krause N. Retinoide-VIII. Azidoretinone, 6177  
 Hopkins P.B see Spaltenstein A. 147, 2095  
 Hopkinson A.C see Fletcher D. 4853  
 Hoppe D see Lüssmann J. 3595  
 Hoppe D., Lüssmann J., Jones P.G., Schmidt D. and Sheldon G.M. Highly diastereoselective synthesis of 1,2-epoxy-4-hydroxy-alkyl carbamates. Masked and activated  $\alpha$ , $\beta$ -dihydroxy-alkanals and -alkanones, 3591  
 Hoppe H.-W. and Welzel P. A synthesis of bufalin from deoxycholic acid, 2459  
 Hoppe M see Paquette L.A. 411  
 Horikoshi K. see Ohfune Y. 6079  
 Horikoshi K., Ando M., Takaiishi N. and Inamoto Y. Palladium-catalyzed decarbonylation of tricyclic bridgehead acid chlorides, 4615  
 Horikoshi M., Kataoka T., Shimizu H., Imai E., Tanaka K., Kimura K., Hashimoto Y. and Kido M. Ylide-induced ylide formation: a novel double cycloaddition reaction of a [1,2,4]triazolo[1,5-a]-pyrimidinum ylides, 717  
 Horikoshi Y see Mitsudo T. 2125, see Morimoto Y. 1809  
 Horikoshi Y., Mitsudo T. and Watanabe Y. Ruthenium-catalyzed synthesis of 2-acetoxyallyl carbonates: a synthon for palladium-catalyzed 2-acetoxyallylation of carbophilic nucleophiles, 5389  
 Horiguchi Y see Nakamura E. 4029  
 Horiguchi Y., Matsuzawa S., Nakamura E. and Kuwajima I. Me, SiCl/HMPA accelerated conjugate addition of catalytic copper reagent. Stereoselective synthesis of enol silyl ether or aldehyde, 4025  
 Horita K see Noda I. 1917  
 Horn M see Märkl G. 4019  
 Horn T see Urdea M.S. 2933  
 Horn T. and Urdea M.S. A chemical 5'-phosphorylation of oligodeoxyribonucleotides that can be monitored by triptyl cation release, 4705  
 Hornback W.J see Boyd D.B. 3457  
 Horne S see Castelbajac A.L. 2435  
 Horner M.G. see Yang N.C. 543  
 Horrocks W.H. see Arnesto D. 3293  
 Hosoda Y see Okada K. 6213  
 Hosomi A see Sakurai H. 75  
 Hosomi A., Otaka K. and Sakurai H. 2-Dimethylaminomethyl-3-trimethylsilylmethyl-1,3-butadiene as 2,2'-biallyl diradical synthon. A new and facile entry to 1,2-dimethylenecyclohexanes, and [6,6] and [6,7] ring systems, 2881  
 Hotoda H see Matsuzaki J. 5645  
 Houbrechts Y., Laszlo P. and Penetreau P. Easy entry to the tricyclo[7,3,1,0]tridecene system, 705  
 Houghton J.D., Beddoes S.E., Suckling K.E., Brown L. and Suckling C.J. 5 $\alpha$ ,6 $\alpha$ -Methanocholestan-3 $\beta$ -ol as a probe of the mechanism of action of cholesterol 7 $\alpha$ -hydroxylase, 4655  
 Houk K.N. see Gupta Y.N. 295, see Liu C.-Y. 4881, see Magnus P. 655, see Smith D.A. 4877  
 Houpis I.N. see Corey E.J. 5951  
 Houriet R., Schwitzguebel T., Carrupt P.-A. and Vogel P. Experimental and theoretical studies on the homoconjugation in bicyclic carbenium and oxonium ions in the gas phase, 37  
 Hrytsak M., Etkin N. and Durst T. Intramolecular rhodium carboid insertions into aromatic C-H bonds. Preparation of 1-carboalkoxy-1,3-dihydrobenzo[c]thiophene 2,2-dioxides, 5679  
 Hsu H.-Y see Kaneko K. 2387  
 Hsu H.C. see Lindsey J.S. 4969  
 Hu N.X., Aso Y., Otaubo T. and Ogura F. Novel oxidizing properties of p-methoxybenzenetriellurinic acid anhydride, 6099  
 Huang L see Ando W. 3391  
 Huang X. see Axenrod T. 11  
 Huang Y see Lu X. 1615, see Wang Y. 4583  
 Huang Y., Shen Y. and Chen C. A novel olefination of carbonyl compounds with  $\alpha$ -bromoacetyl ester mediated by tri-n-butylstibine, 2903  
 Huang Y., Shi L., Yang J., Colonna S. and Manfredi A. Erratum, 2179  
 Huang Y.Z. see Sheng H. 4893  
 Huang Y.Z. and Zhou Q. Studies on the Pd catalyzed reaction of perfluoroalkyl and polyfluoroalkyl iodides with tertiary amines, 2397  
 Huber D., Leclerc G. and Andermann G. The use of lithium borohydride for deprotecting acetylated alcohols and phenols in the presence of N-acetylated guanidines, 5731  
 Huckstep M.R., Taylor R.J.K. and Caton M.P.L. Seleno-sulphonolactonisation reactions of 5,7-dienic acids, 5919  
 Huet F see Vidal J. 3733  
 Huff B see Lipshutz B.H. 4095, 4241  
 Huh K.-T. see Tsuji Y. 377  
 Hui R.C. see Seydel D. 1473  
 Huisgen R., Langhals E. and Nöth H. Further contributions to the stereospecificity of 1,3-dipolar cycloadditions of thiocarbonyl ylides, 5475  
 Huisgen R. and Xia P. 1,3-Cycloadditions of a thionitroso S-sulfide, 6063  
 Huijzinga W.B. see Klunder A.J.H. 2543  
 Hulin B see Schreiber S.L. 4561  
 Hulshof A.J.M. see Klunder A.J.H. 2543  
 Hung M.-H see Trost B.M. 4949  
 Huneker D see Beck A. 485  
 Hunter R. and Simon C.D. Alkylation of silyl enol ethers with pummerer-generated vinyl thionium ions, 1385  
 Husethouse M.B. see Guirado A. 4063  
 Hussain F.H.S. see Brennan J. 3199  
 Hussain H.H. see Baird M.S. 5143  
 Husson H.-P. see Bonn M. 1569  
 Hutchings M.G. see Bentley T.W. 5261  
 Hutchinson D.K., Hardinger S.A. and Fuchs P.L. Amine-directed addition of cuprate reagents to cyclopentenyl sulfones, 1425  
 Hutchinson D.K. and Fuchs P.L. On the chemistry of lithium diallyl cuprate, 1429  
 Hvidt T., Martin O.R. and Szarek W.A. Synthesis of  $\alpha$ -amino- $\beta$ -hydroxy acids using [ $N,N$ -bis(trimethylsilyl)amino]ketene bis(trimethylsilyl) acetal or its  $N$ -methyl- $N$ -trimethylsilyl analog, 3807  
 Hwu J.R. and Anderson D.A. The zwitterion-accelerated [3,3]-sigmatropic rearrangement of allyl vinyl sulfoxides to sulfines. A specific class of charge-accelerated rearrangement, 4965  
 Hyodo C see Aono M. 4039  
 Hyuga S., Takinami S., Hara S. and Suzuki A. Organic synthesis using haloboration reaction. Part IX. A direct and selective synthesis of (Z,Z)-1-bromo-1,3-dienes and (E,Z)-1,3-dienes by the hydroboration-bromoboration sequence of two alkynes, 977  
 Ibatu T., Liu M.T.H. and Toyoda J. Carbonyl ylide from 3-chloro-3-p-nitrophenylcarbene and acetone, 4383  
 Ibusaud I see Mazumdar S.N. 5875  
 Ibragimov I.I. see Simonian S.O. 1245  
 Ibrahim M.R. see Fataftah Z.A. 4067  
 Ichihara A., Kawakami Y. and Sakamura S. Stereoselective synthesis and stereochemistry of altloxin A, 61  
 Ichihara A., Kawagishi H., Tokugawa N. and Sakamura S. Stereoselective total synthesis and stereochemistry of diploidatoxin, a mycotoxin from *Diplodia maydis*, 1347  
 Ichikawa S. and Sato T. The selective bond cleavage of aldohexoses by the iron(III) chloride-catalyzed photoreaction, 45  
 Ichikawa Y. see Isobe M. 963  
 Ichikawa Y., Monden R. and Kuzuhara H. Synthesis of heparin pentasaccharide fragment with a highly affinity for antithrombin III employing cellobiose as a key starting material, 611  
 Ichinose N., Mizuno K., Hiramoto Z. and Otsuji Y. (2 $\alpha$  + 4 $\alpha$ ) Photo-cycloaddition of 1,2-diarylcyclopropanes to 9,10-dicyanoanthracene via geminate radical ion pair, 5619  
 Idon D. and Khan N. A convenient synthesis of 4(5)-mono-, 4,5-di-, and 2,4,5-tri-substituted imidazoles, 1635  
 Igarashi T. see Sato T. 4339  
 Iguchi K. see Nagaoaka H. 223  
 Im W. see Dornberger K. 559  
 Iida H. see Ogura K. 6381, 3665  
 Iida H., Watanabe Y. and Kibayashi C. A stereoselective synthesis of the ant trail pheromone ( $\pm$ )-monomorine I, 5513  
 Iida H., Yamazaki N., Kibayashi C. and Nagase H. Stereochemical revision and absolute configuration of codonopsinine, 5393  
 Iida H., Fukuhara K., Machiba M. and Kikuchi T. Total synthesis of (-)-dihydrocelacinine and ( $\pm$ )-celabenzine, 207  
 Iida M. see Nishikubo T. 3741  
 Iimori T., Ishida Y. and Shibasaki M. On the stereochemical course of vinyloxyborane-imine condensation - the stereoselective formation of three  $\beta$ -amino acid derivatives-, 2153  
 Iimori T. and Shibasaki M. Simple, stereocontrolled synthesis of 18-methylcarbapenem antibiotics from 3(R)-hydroxybutyric acid, 2149  
 Iio H., Mizobuchi T., Tsukamoto M. and Tokoroyama T. Carbonyl addition reaction by means of  $\beta$ -silyl-phosphorous ylide. Anti-diastereoselective vinylylation of  $\alpha$ -alkoxy aldehydes, 6373  
 Itaya T. see Taguchi T. 5117  
 Izawa T. see Nishikubo T. 3741  
 Izuka H. see Sakakibara T. 5409  
 Ikaruya T. see Ishii Y. 365  
 Ikeda K. see Takahashi T. 1819  
 Ikeda N., Omori K. and Yamamoto H.

- Complete 1,3-asymmetric induction in the reactions of allenyl-boronic acid with  $\beta$ -hydroxy ketones, 1175
- Ikeda S see Ueki M. 4181
- Ikegami S see Hashimoto S. 2885
- Ikegami S., Hayama T., Katsuki T. and Yamaguchi M. Asymmetric synthesis of  $\alpha$ -amino acids by alkylation of a glycine amide derivative bearing chiral 2,5-disubstituted pyrrolidine as an amine component, 3403
- Ikehara M see Tanaka T. 5641, 3267, 199
- Ila H see Balu M.P. 117
- Ilkka S.J see Larock R.C. 2211
- Ilyin S.G see Fedoreyev S.A. 3177
- Imada Y see Murahashi S. 227
- Imai E see Horii T. 717
- Imamoto T., Takeyama T. and Koto H. The reaction of carbonyl compounds with diiodomethane in the presence of samarium: novel syntheses of iodohydrins and cyclopropanols, 3243
- Imanishi T., Matsui M., Yamashita M. and Iwata C. A novel construction of octahydro-3a,7-ethano-3aH-indene skeleton from a tri-cyclo[3.3.0 $\cdot$ ] $\Delta$ octane: a total synthesis of ( $\pm$ )-descarboxy-quadrone, 3161
- Imperiali B. and Abeles R.H. A versatile synthesis of peptidyl fluoromethyl ketones, 135
- Inaba M see Saito S. 5249
- Inamori Y see Horii K. 4615
- Inanaga J see Otsubo K. 5763, see Tabuchi T. 5237, 3889, 601, 1195, 3891
- Ingold K.U see Paquette L.A. 411, see Robillard R. 2817
- Irman K.C see Parker K.A. 2833
- Inoue K see Shono T. 6083
- Inoue S., Okada K., Tanino H. and Kakoi H. Total synthesis of neosurugatoxin, 5225
- Inouye H see Uesato S. 2893
- Inouye K see Ushio K. 2657
- Iqbal J see Ahmad S. 3791
- Iqbal T see Parker K.A. 6291
- Irie M see Yamaguchi S. 2411
- Irrgartinger H see Ricker C. 1565
- Irvine M.J see Brown R.F.C. 1075
- Irvine R.W see Becker A.M. 3431
- Isaacs N.S see Hill S. 5007
- Isaacs N.S. and Abed O.H. Reactions at high pressure, Part XVIII. Volumes of activation and of reaction for the Wittig reaction, 995
- Isaacs N.S. and Abed O.H. Volume profiles and mechanisms for the alkaline decomposition of phosphonium salts and phosphate esters, 1209
- Isakov M see Goody R.S. 3599
- Iseki K see Shinoda M. 87
- Ishibashi M see Kobayashi J. 5755
- Ishida J see Miyashita A. 2127
- Ishida M see Kato S. 4595
- Ishida Y see Iimori T. 2153
- Ishido Y see Sakakibara T. 5409
- Ishihara K see Mori A. 987
- Ishihara K., Mori A., Arai I. and Yamamoto H. Reductive cleavages of  $\alpha,\beta$ -alkynyl acetals. New route to optically pure propargylic alcohols, 983
- Ishihara T., Yamasaki Y. and Ando T. A novel reaction of 1-phosphonyloxy-F-1-alkenephosphonates: highly effective method for the synthesis of  $\alpha,\beta$ -unsaturated F-carboxylic acid derivatives, 2879
- Ishihara T., Maekawa T. and Ando T. An efficient synthesis of  $\alpha$ -F-alkynylated alcohols by new siloxane-fluoride ion catalyzed reaction of 1-H-F-1-alkene-phosphonates with aldehydes, 357
- Ishii Y., Ikariya T., Saburi M. and Yoshikawa S. Highly regio-selective lactone formation catalyzed by ruthenium complexes. An application to synthesis of arylnaphthalene lignans, 365
- Ishikawa M see Ito Y. 3261, see Miyaura N. 6369
- Ishikura T see Yoshioka T. 4335
- Ishitsuka M., Kusumi T., Kakisawa H., Kawakami Y., Nagai Y. and Sato T. Structural elucidation and conformational analysis of germacrane-type diterpenoids from the brown alga *Pachydictyon coriaceum*, 2639
- Ishiwata H see Niwa H. 4609
- Ishiyama T see Miyaura N. 6369
- Isobe K see Uemura M. 967
- Isobe M., Ichikawa Y. and Goto T. Synthetic studies toward marine toxic polyethers V. The total synthesis of okadaic acid, 963
- Isobe N see Nishikubo T. 3741
- Isobe S see Yoshida J. 6075, 3373
- Isogai A. see Sakuda S. 2475
- Isogai A., Sakuda S., Shindo K., Watanabe S., Suzuki A., Fujita S. and Furuya T. Structures of cyclocarbamides A and B, new plant growth regulators from *Streptoverticillium Sp.*, 1161
- Ison E.R see Szarek W.A. 3827
- Isono K see Ubukata M. 3907
- Ishihiki K see Yoshioka T. 4335
- Itaya T., Fujii T., Evidente A., Randazzo G., Surico G. and Iacobellis N.S. Syntheses and absolute configurations of the cytokinins 1'-methylzeatoin and its 9-riboside, 6349
- Itaya T., Watanabe N. and Mizutani A. Synthesis of optically active forms of hydroxy-Y base, the minor component or rat liver phenylalanine transfer ribonucleic acid, 4043
- Itō K see Itsuno S. 3033
- Itō Y see Hayashi T. 191, see Kawabata T. 6241, see Tamao K. 3377
- Itō Y., Matsuura T., Nishimura S. and Ishikawa M. A novel dimerization of isonitrile by organosilyllithium, 3261
- Itō Y., Kawabata T. and Terashima S. A novel synthesis of (3R,4R)-acetoxy-3-[ $(R)$ -1-(*t*-butyl-dimethylsilyloxy)ethyl]-2-azetidinone, the versatile key intermediate or carbapenem synthesis, from (*S*)-ethyl lactate, 5751
- Itō Y., Sugimoto M., Sato S. and Ogawa T. Total synthesis of a lacto-ganglioside glycosphingolipid, MI-XGL-1, 4753
- Itō S see Fujise Y. 2907, see Fukazawa Y. 1929, see Hirama M. 5281
- Itoh K see Nishiyama H. 1599, 361
- Itoh S see Ogura K. 6381
- Itoh T., Yonekawa Y., Sato T. and Fujisawa T. Stereocontrol by introduction of a sulfur functional group in the asymmetric reduction of  $\beta$ -ketoesters with Baker's yeast; preparation of optically pure 3S-hydroxydithioesters as a new chiral synthon of natural product synthesis, 5405
- Itoh T. see Uchida I. 2015
- Itsono S., Miyazaki K. and Ito K. Reaction of aldehyde O-alkyl oxime with organometallic compounds, 3033
- Iwagami H., Woulfe S.R. and Miller M.J. Reactions of (2-oxo-1-azetidinyl)-thiophthalimides with nucleophiles, 3095
- Iwanura H see Kimura M. 4177, see Tukada H. 235
- Iwanaga K see Furuta K. 4507
- Iwasaki H see Yoshida J. 4469
- Iwashita T see Kong F. 5765
- Iwata C see Imanishi T. 3161
- Iyanagi T see Fujimori K. 1179
- Iyer R see Barracough P. 5997
- Iyoda T., Ando M., Kaneko T., Ohnati A., Shimizu T. and Honda K. Electrochemical polymerization in Langmuir-Blodgett film of new amphiphilic pyrrole derivatives, 5633
- Izumi Y see Matsuda I. 5747, see Sato S. 5517
- Jäger V., Kuhn W. and Schubert U. The 4-penten-4-olate group: a novel, multidirectional participant in cationic olefin cyclization, 2583
- Jackson Y.A see Lakshminathan M.V. 4687
- Jacob D., Peter-Niedermann H. and Meier H. Cycloaddition reactions of benzothiete and hetero dieno-philes for the synthesis of heterocyclic systems, 5703
- Jacob L see Cimetiere B. 6329
- Jacobs H., Randayal F., Reynolds W.F. and McLean S. Guyanin, a novel tetrnortriterpenoid. Structure elucidation by 2-D N.M.R. spectroscopy, 1453
- Jacobs H.J.C see Brouwer A.M. 1395
- Jacobson E.J see Oppolzer W. 1141
- Jacques J.-C see Gesson J.-P. 4461
- Jacques J.-L see Berrier C. 4565
- Jacquet B see Barre G. 6197
- Jacquier M.J see Verpoorte R. 239
- Jacquier R see Calmes M. 4303
- Jacquier R., Lazar R., Ranisireheno H. and Viallefond Ph. Stereo-selective synthesis of HC toxin and its (9R) epoxide epimer, 4735
- Jacquin J. see Tamura M. 5435
- Jänicke L see Schotten T. 2349
- Jaggi D see Jefford C.W. 4011
- Jahn R see Rücker C. 1565
- Jalali-Naini M. and Lallemand J.Y. Iodocyclisation of unsaturated lactols and acetals. A new route to furo-2,3b-furans and pyrans, 497
- James K see Fleet G.W.J. 3057, 3053
- Janout V. and Cefelin P. Solid-phase cosolvents. A polymer analog of N-methyl-2-pyrrolidone based on crosslinked polystyrene, 3525
- Jaworski W see Chieffari J. 6119
- Jansen J.F.G.A see Feringa B.L. 507
- Jansson K., Frejd T., Kihlberg J. and Magnusson G. Boron trifluoride etherate as an effective reagent for the stereoselective one-pot conversion of acetylated 2-trimethylsilylethyl glycosides into sugar 1,2-trans-acetates, 753
- Janvier P see Martin G.J. 2855
- Jauhari R., Dixneuf P.H. and Lécoleur S. Palladium-catalyzed, one-pot carbonylation of heterocyclic compounds into their esters, in the presence of mercury salts, 6315
- Jarecki C see Bushby R.J. 2053
- Jaroszewski J.W. and Olafsdóttir E.S. Natural glycosides of cyclopentenone cyanohydrins: revised structure of so-called epitetraphyllin B, 5297
- Jaurand G see Lesimple P. 6201
- Jawalkar D.G see Mandal A.K. 99
- Jefferies I see Baird M.S. 2493
- Jefford C.W see Sakemi S. 4287
- Jefford C.W., Jaggi D. and Boukouvalas J. A short, stereo-

- divergent synthesis of the acemic erythro and threo diastereomers of 6-acetoxy-5-hexadecanolide, a mosquito oviposition attractant pheromone, 4011
- Jennis E.D see Reddy V.P. 3771
- Jendralla H see Bartmann W. 4709
- Jenkins P.R. see Magnus P. 651
- Jenkins T.E see Shah M. 5437
- Jenks T.A see Vyas D.M. 3099
- Jenner G see Ben Salem R. 1575
- Jennings W.B see Agarwal S.K. 4253
- Jeong I.H., Burton D.J. and Cox D.G. Regiospecific preparation of  $\alpha,\alpha'$ -dihalofluoromethyl perfluoroalkyl ketones, 3709
- Jerina D.M. see Agarwal S.K. 4253
- Jeyaraman R see Abramovitch R.A. 3705, see Murray R.W. 2335
- Jiancheng Z. and Foote C.S. Photo-oxidation of substituted indenes at low temperature, 6153
- Jin H see Cheon S.H. 4759
- Jinguiji M see Nakazawa T. 3005
- Johnson R.B see Weinstock L.M. 3845
- Joh T see Doyama K. 4497
- Johansson N.C see Kjellberg J. 877
- Johns R.B see Perich J.W. 1377, 1373
- Johns R.B., Alewood P.F., Perich J.W., Chaffee A.L. and MacLeod J.K. Fast atom bombardment mass spectrometry of seryl- and O-phosphoseryl-containing peptides, 4791
- Johnson C.R see Peel M.R. 5947
- Johnson R.P see Price J.D. 4679
- Johnson W.S., Newton C. and Lindell S.D. The carboalkoxylilsilane terminator for biomimetic polyene cyclizations. A route to 21-hydroxyprogesterone types, 6027
- Johnston L.J see Paquette L.A. 411
- Johnston M see Mobashery S. 3333
- Jokela R see Louasmaa M. 2043
- Jones G see Abarca B. 3543
- Jones M., Jr see Hartwig J.F. 5907
- Jones N.D see Boyd D.B. 3457
- Jones P.G see Hoppe D. 3591, see Lüssmann J. 3595
- Jones R.C.F. see Crombie L. 5151, 5147
- Jones R.C.F. and Bates A.D. Synthesis of 5-substituted 4-O-methyl tetroamides, 5285
- Jones R.J see Lakshminikantham M.V. 4687
- Jones T.R see Young R.N. 539
- Joshi N.N. and Hoffmann H.M.R. Ultrasonics in the metal promoted cycloaddition of  $\alpha,\alpha'$ -dibromo ketones to 1,3-dienes, 687
- Jouanneau M.-P. see Berrier C. 4565
- Joucla M., El Goumzili M. and Fouchet B. Reaction of Schiff bases anions with 4-halo-2-butenoates: selective synthesis of  $\alpha$ -cyclopropyl and Y, $\delta$  unsaturated  $\alpha$ -amino acid derivatives, 1677
- Joucla M. and El Goumzili M. Reaction of Schiff bases anions with  $\alpha,\omega$ -dihaloalkanes: synthetic route to cyclic  $\alpha$ -aminoacid derivatives, 1681
- Joyce R.P., Parvez M. and Weinreb S.M. An approach to the aryl-C-glycoside DEF-ring system of nogalycin, 4885
- Juge S see Genet J.P. 4573
- Julia M see Cimetiere B. 6329
- Julia M. and Mallet J.M. The taft  $\sigma_1$  constants of some phosphoryloxy substituents, 5851
- Julia S.A see Baudin J.-B. 837
- Jung M.E. and Lowen G.T. A direct synthesis of trans 2-arylbenzo-cyclobutenol, a potential intermediate for podophyllotoxin synthesis: use of LDA for benzene formation and trapping, 5319
- Jung M.E. and Buszek K.R. Alkenyl-immonium salts as dienophiles in Diels-Alder cycloadditions with high reactivity and stereo-selectivity, 6165
- Jung S.H see Kozikowski A.P. 3227
- Jung Y.W see Wuts P.G.M. 2079
- Junjappa H see Balu M.P. 117
- Jurczak J see Martin G.J. 2855
- Jurczak J., Pukul S. and Ankner K. A new approach to the synthesis of chiral multifunctional chain compounds from 2,3-O-isopropylidene-D-glyceraldehyde, 1711
- Jurczak J., Golebiowski A. and Rahm A. High-pressure ( $4\text{--}2$ ) cyclo-addition of 1-methoxy-3-trialylsilyloxybuta-1,3-dienes to butyl glyoxylate. Isolation of primary cycloadducts, 853
- Jursic B see Ladika M. 1703
- Just G see O'Connor B. 5201
- Kabalka G.W., Varma R.S., Gai Y.-Z. and Baldwin R.M. A new route to iodine-labeled N-isopropyl doxapramphetamine via organoboranes, 3843
- Kabuto C., Fukazawa Y., Suzuki T., Yamashita Y., Miyashi T. and Mukai T. Crystal structures of molecular complexes of 2-chloro-11,11,12,12-tetracyanoanthraquinodimethane with benzene (1:1) and pyrene(2:1) a novel type of charge transfer complexes, 925
- Kaczmarek R. and Blechert S. De-Mayo-Reaktionen mit Allen. Ein kurzer Weg zum Bicyclo[5.3.1]-undecan-System der Taxane, 2845
- Kagan H.B see Charpin P. 2989, see Nuzillard J.M. 2993, see Prandi J. 2617
- Kagamore S.N. see Wubbels G.G. 3103
- Kagiya T see Ohtani B. 2019
- Kahn M. and Devens B. The design and synthesis of a nonpeptide mimic of an immunosuppressing peptide, 1481
- Kahn S.D. and Hehre W.J. Diastereofacial selectivity in Diels-Alder cycloadditions involving vinyl sulfoxides, 6041
- Kaiser M. see Buddekk H. 473
- Kaji A see Ono N. 1595
- Kaji K see Masaki Y. 231
- Kajima M. see Atmani A. 2611
- Kajitara H see Sassa T. 2121
- Kakisawa H see Ishitsuka M. 2639
- Kakiuchi K see Kobiro K. 2465, see Tobe Y. 2905
- Kakoi H see Inoue S. 5225
- Kallmerten J. and Wittman M.D. Synthesis of oudemansins A and B, 2443
- Kaluza Z see Makosza M. 1103
- Kambe N. see Yoshida T. 3037
- Kametani T see Shishido K. 971, 1339, 1167
- Kamimura A see Ono N. 1595
- Kanai H see Nishiyama S. 3643
- Kanai Y see Nishiyama H. 361
- Kandil A.A. see Matteson D.S. 3831
- Kanefusa T see Toru T. 1583
- Kaneko C see Sato M. 6091
- Kaneko K., Kataoka T., Mitsuhashi H., Chen Y.-P., Hsu H.-Y. and Shiro M. Chuanbeinone, a novel D/E cis-(22R-25S)-5 $\alpha$ -cevanine alkaloid from Chinese herbal drug, Chuan-bei-mu, 2387
- Kaneko T see Iyoda T. 5633
- Kaneko Y see Satoh T. 2379, see Takeda T. 3029
- Kanematsu K see Hayakawa K. 947, 4205, 1837
- Kanemoto S., Nonaka T., Oshima K., Utimoto K. and Nozaki H. Selective epoxidation of allylic alcohols with dibutyltin oxy-peroxide, 3387
- Kanachik A see Fitjer L. 3603
- Kanska M. and Fry A. Carbon-14 kinetic isotope effects and mechanisms of addition of 2,4-dinitrobenzenesulfonyl chloride to substituted styrenes in the presence of lithium perchlorate, 5063
- Karanowsky D.S. and Badia M.C. Synthesis of phosphonic monoesters from phosphorous acids, 1751
- Karni A., Mortreux A. and Petit F. Hydrosilylation asymétrique de l'acétophénone catalysée par des complexes au rhodium chelatés par des ligands aminophosphinite et aminophosphine-phosphinite, 345
- Karni M see Apeloig Y. 6115
- Karpf M see Koller M. 19
- Karpa T.K. see Bhattacharyya S. 5303
- Kartha K.P. Iodine, a novel catalyst in carbohydrate reactions I.  $\text{O}$ -Isopropylidination of carbohydrates, 3415
- Karuso P., Bergquist P.R., Buckleton J.S., Cambie R.C., Clark G.R. and Rickard C.E.F. 13 $\beta$ ,17 $\beta$ -Cyclophosphoribide enol, the first porphyrin isolated from a sponge, 2177
- Kas'jan L.A., Gnedenko L.Yu., Galafeeva M.F., Kornilov M.Yu., Krasutsky P.A., Averina N.V. and Zefirov N.S. Novel rearrangement of exo-epoxide of norbornene, 2921
- Kasai R see Yasuhara F. 4033
- Kashima C., Hibi S., Maruyama T. and Omote Y. The convenient and one-pot synthesis of N-substituted carbazoles, 2131
- Kashman Y., Lidor R., Blasberger D. and Carmely S. Synthetic studies related to latrunculin. Synthesis of tetrahydropyranylthiazolidin-2-one systems, 1367
- Kassou M. see Canonne P. 2001
- Kast J see Schmidt R.R. 4007
- Kasuga T see Mikami K. 4185
- Katagiri N see Sato M. 6091
- Kataoka M. and Nakajima T. The ground-state geometrical structures of the triple-layered and the quadruple-layered syn-azulenophane, 1823
- Kataoka T see Horii M. 717
- Kato H see Sassa T. 2121
- Kato M. see Mori K. 981
- Kato S see Murai T. 4593
- Kato S., Ono Y., Miyagawa K., Murai T. and Ishida M. Thioacylsulfenyl bromides: electrophilic dithiocarboxylating reagents, 4595
- Kato S., Hamada Y. and Shioiri T. Total synthesis of ulithiamycamide, a strong cytotoxic cyclic peptide from marine tunicates, 2653
- Kato T see Matsuda I. 5747, see Ojima J. 2467
- Katoh S see Shono T. 6083
- Katsuhara T see Kaneko K. 2387
- Katsuki T see Enomoto M. 4599, see Hanamoto T. 2463, see Ikegami S. 3403, see Uchikawa M. 4581, 4577
- Kattil S.B. and Agarwal K. Separation of diastereomers of methylphosphonate dinucleotides, 5327
- Katz T.J. see Sudhakar A. 4084, 2231
- Kauffmann T., Abel K., Bonrath W., Kolb M., Möller T., Pahde C., Raedecker S., Robert M., Wensing M. and Wichmann B. E-Don-Gruppierungen organischer Verbindungen als bevorzugte Angriffsstellen für Nucleophile, alkylierende Übergangsmetallreaktionen; eine erste Übersicht, 5351
- Kauffmann T., Abel T., Beirich C., Kieper G., Pahde C., Schreer

- M., Toliopoulos E. and Wieschollek R.** Überraschende Resistenz von *Candida albicans* gegenüber Fluconazol. 5355
- Kawabata A** see Otera J. 2383
- Kawabata N.** see Yoshida J. 4469
- Kawabata T** see Ito Y. 5751
- Kawabata T., Kimura Y., Ito Y., Terashima S., Sasaki A. and Sunagawa M.** A novel and efficient synthesis of the key intermediate of 18-methylcarbapenem antibiotics from (S)-methyl 3-hydroxy-2-methylpropionate, 6241
- Kawada K** see Umemoto T. 4465
- Kawada M** see Mandai T. 603
- Kawada N** see Sakurai H. 75
- Kawagishi H** see Ichihara A. 1347
- Kawai K** see Masumizu T. 55
- Kawai M., Gardner J. H. and Rich D. H.** Stereoselective synthesis and absolute configuration of epoxyketones in chlamydoxin and related cyclic tetrapeptides, 1877
- Kawakami Y** see Ichihara A. 61, see Ishitsuka M. 2639
- Kawamoto K** see Mikami K. 4899
- Kawamoto T** see Shiragami H. 589
- Kawanura K** see Tabuchi T. 3889
- Kawanisi M** see Yamaguchi R. 211
- Kawano Y** see Tamura N. 3749
- Kawara A** see Taguchi T. 5117
- Kawasaki H** see Tomioka K. 3247
- Kawasaki M., Matsuda F. and Terashima S.** Total synthesis of (+)-norgarene and (+)-7,8-dihydro-norgarene, 2145
- Kawashima H** see Nishiyama H. 361
- Kawata H., Suzuki Y. and Niizuma S.** Photodimerization of 2,6-diphenylpyrylium salt in THF solution, 4489
- Kawate T** see Nakagawa M. 6217, 3235
- Kawazoe Y., Ninomiya S., Kohda K. and Kimoto H.** Quantitative structure-chemoselectivity relationship among alkanesulfonates of primary alcohols, 2897
- Kay I.T. and Glue S.E.J.** A new synthesis of phenyl ketones by intramolecular 'deoxybenzoylation' of enols and phenols, 113
- Kaye A.D., Pattenden G. and Roberts S.M.** Stereoselective synthesis of Z-di-substituted olefins via 2,3-sigmatropic rearrangements. An approach to leukotrienes, 2033
- Keating A** see Peiter A. 5037
- Keil D.A.** see DeShong P. 3979
- Keller H., Maas G. and Regitz M.** Unusual oxygen shift during dimerization of  $\lambda^3\sigma$ -phosphalkynes, 1903
- Keller J.W. and Hamilton B.J.** Enzymatic resolution of 2-trifluoromethylalanine, 1249
- Kellogg R.M.** see Ferling B.L. 997, see Vriesema B.K. 2049, 2045
- Kelly D.P., Gianfranca J.J., Leslie D.R. and McKern I.D.** 6a-Methylhexahydro-2,6-methano-2H-cyclopental[b]furan: a novel tricyclic ether, 2311
- Kelly T.R., Echavarren A., Whiting A., Weibel F.R. and Miki Y.** Synthesis of the chromophore of rubrolone, 6049
- Kempf D** see Still W.C. 2727
- Kempf H** see Franck-Neumann M. 5215
- Kempsey S.P.** see Coombes R.G. 2037
- Kende A.S. and Koch K.** Intramolecular radical cyclization of phenolic nitronates: facile synthesis of annulated tropone and tropolone derivatives, 6051
- Kennedy M., Maguire A.R. and McKervey M.A.** Organic synthesis with- chlorosulphides. Conversion of phenols into Y-lactones using tetroxide, 6111
- Kenny M.J., Mander L.N. and Sethi S.P.** Synthetic studies on rabdosia diterpene lactones I: the preparation of a key tricyclic intermediate, 3923
- Kenny M.J., Mander L.N. and Sethi S.P.** Synthetic studies on rabdosia diterpene lactones II. The synthesis of 15-deoxyeffusin, 3927
- Kenny P.W. and Robinson M.J.T.** A carbon-13 and nitrogen-15 isotopic labelling study of intermediates and by-products in the reaction of chalcone and phenylhydrazine to give 1,3,5-triphenyl-2-pyrazole, 6277
- Kerejkjarto B.v** see Bartmann W. 4709
- Kesselmans R.P.W.** see Wijnberg J.B.P.A. 2415
- Kester J** see Bartmess J.E. 5931
- Khalaj A. and Ghafari M.** A new synthesis of unsubstituted, 4(5), and 4,5-substituted 1H-imidazoles, 5019
- Khamliche L. and Robert A.** Synthese des acetoxy 2-bromo-3-propene-2 nitriles substitués sa partir des gem-dicyanopoxydes, 5491
- Khamsi J** see Barton D.H.R. 3615, 3619
- Khan N** see Iddon B. 1635
- Khandelwal Y** see Nadkarni S.R. 5265
- Khandelwal Y., Moreas G., de Souza N.J., Fehlhaber H.W. and Paulus E.F.** Oxidation/reduction studies with forskolin, 6249
- Khanna I.** see Campbell A.L. 3963
- Khosrovshahi J.** see Moriarty R.M. 2809
- Khouhi M., Vaultier M. and Carrié R.** The use of  $\omega$ -iodoazides as primary protected electrophilic reagents. Alkylation of some carbanions derived from active methylene compounds and N,N-dimethylhydrazones, 1031
- Kitayoshi C** see Iida H. 5393, 5513
- Kido M** see Horii M. 717
- Kiefl M.J.** see Gill M. 1933
- Kieper G** see Kaufmann T. 5355
- Kiffer D** see Beugelmans R. 6209
- Khaira K** see Nakatsuka S. 3399
- Kihlberg J** see Jansson K. 753
- Kikuchi O** see Fujimori K. 1617
- Kikuchi T** see Iida H. 207
- Kim D** see Ahn S.H. 943, see Curran D.P. 5821
- Kim D.W** see Choi J.H. 1157
- Kim H** see Schlecht M.F. 4889
- Kim H.-B** see Holton R.A. 2191
- Kim J** see Choi Y.-H. 5795
- Kim K** see Kim Y.H. 4749
- Kim K.S., Song Y.-H., Lee N.H. and Hahn C.S.** Selective oxidation of alcohols by  $K_2FeO_4$ - $Al_2O_3$ - $CaSi_4$ . $5H_2O$ , 2875
- Kim K.Y** see Ueoka R. 1183
- Kim M** see Kubo I. 4277
- Kim S. and Yi K.Y.** Di-2-pyridyl sulfite. A new useful reagent for the preparation of N-sulfinyl amines, nitriles, isocyanides, and carbodiimides under mild conditions, 1925
- Kim T.H. and Oh D.Y.** Synthesis of 1-(substituted-aryl) methylthio-methanephosphonates by Friedel-Crafts reaction of aromatic compounds with chloro(methylthio)methanephosphonate, 1165
- Kim Y.H** see Shin J.M. 1921
- Kim Y.H., Kim K. and Shim S.B.** Facile synthesis of azides: conversion of hydrazines using dinitrogen tetroxide, 4749
- Kimmel T** see De Lombaert S. 5099
- Kimoto H** see Kawazoe Y. 2897
- Kinoshita M.** see Toshima K. 4741
- Kinoshita M., Arai M., Tomooka K. and Nakata M.** Synthetic studies of erythromycins. II. Enantio-specific synthesis of a C-10-C-13 segment of erythromycin A from D-ribose, 1811
- Kinoshita M., Arai M., Ohnawa N. and Nakata M.** Synthetic studies of erythromycins. III. Total synthesis of erythromycin A through (9S)-9-dihydro-erythromycin A, 1815
- Kiolle R** see Ferroudi D. 23
- Kirby A.J** see Abell K.W.Y. 1085
- Kirby G.W., Rao G.V., Robins D.J. and Stark W.M.** Partial synthesis of gliotoxin G, an epitetra-thiodioxopiperazine, 5539
- Kirschke K., Müller A., Schmitz E., Kuban R.J. and Schulz B.** Surprising reactions of special azolefins - self-arylation, indole ring closure, mild chlorine substitution, and "tert. amino effect", 4281
- Kishi Y** see Cheon S.H. 4759, see Taniguchi M. 4767, 4763
- Kishimoto H** see Tamura Y. 195
- Kita Y** see Tamura Y. 195
- Kitade Y** see Hirota K. 3263
- Kitagawa O** see Taguchi T. 6103
- Kitahara T., Mori M., Koseki K. and Mori K.** Total synthesis of (-)-periplanone-B, the sex pheromone of the American cockroach, 1343
- Kitajima M** see Sakai S. 4585
- Kitajima T** see Ogawa T. 5739
- Kitamura T., Murakami M., Kobayashi S. and Taniguchi H.** ipso Substitution by cyanide anion in photolysis of 1-(*p*-methoxy-phenyl)vinyl bromides, 3885
- Kitano Y** see Kobayashi Y. 4775
- Kittaka A** see Otsuka M. 3639, see Sugano Y. 3635
- Kittaka A., Sugano Y., Otsuka M., Ohno M., Sugiura Y. and Umezawa H.** Transition-metal binding site of bleomycin. A remarkably efficient dioxygen-activating molecule based on bleomycin-Fe(II) complex, 3631
- Kiyosaka S., Kuroda H. and Shimasaki Y.** 1,3-Syn diastereoselective reduction of  $\beta$ -hydroxyketones with diisobutylaluminum hydride and tributyltin hydride, 3009
- Kiyosaka S., Yamashita T., Tashiro J., Takano K. and Uchio Y.** One-methylene incorporated dimerization reaction of ketone enolates. I. A new route to 1,5-diketones from ketones having  $\alpha$ -active hydrogen on one side, 5629
- Kjellberg J., Liljeborg M. and Johansson N.G.** Regioselective alkylation of 6-( $\beta$ -methoxy-ethoxy)guanine to give the 9-alkyl-guanine derivative, 877
- Kjaerbaas R.A.** see Watson R.A. 1437
- Klayer W.J** see Hiemstra H. 1411, see Melching K.H. 4799
- Klein L.L.** Synthetic studies toward verrucosidin: synthesis of ( $\pm$ ) verrucosal, 4545

- Klein R.S see Bhattacharya B.K. 815  
 Klens A see Kraus W. 1002  
 Klien U see Adam W. 2953  
 Kline D.N see Padwa A. 2683  
 Klix R.C see Bach R.D. 1983, 3565  
 Klumpp G.W see van der Does T. 519  
 Klumpp G.W. and Siming M.J.  
     Reaktionswärmen isomerer (Lithio-  
     aryl)ether mit s-BUOH, 2247  
 Klunder A.J.H., Huijzinga W.B., Hulshof  
     A.J.M. and Zwanenburg B. Enzymic  
     optical resolution and absolute  
     configuration of tri-  
     cyclo[5.2.1.0<sup>2,6</sup>]decadienones,  
     2543  
 Kmiecik-Lawrynowicz G see Moss R.A.  
     2707  
 Knagg E see Herbert R.B. 1099  
 Knau P.G.L see Hafner K. 1669, 1673,  
     1665  
 Kneisley A see Ziegler F.E. 1221  
 Knock F see Appel R. 1661, see  
     Padopoulos K. 3491, see Vögtle  
     F. 695  
 Knochel P see Avrury P. 5091, 5095  
 Knochel P. and Normant J.F. Copper  
     and zinc gem-dimetallic organic  
     compounds synthesis and  
     reactivity. Part 3, 4427  
 Knochel P. and Normant J.F.  
     Diastereoselective addition of  
     functionalized allylic zinc  
     bromides to alkenyl organo-  
     metallics. Part 5, 5727  
 Knochel P. and Normant J.F. Mixed  
     gem-dimetallic organic compounds.  
     A new class of multi-coupling  
     reagents. Part 2, 1043  
 Knochel P. and Normant J.F.  
     Ractivity of the 1-lithia-1-  
     zincalkenes. A formal regio-  
     specific addition of allyl zinc  
     bromide to alkenes. Part 4, 4431  
 Knochel P. and Normant J.F.  
     Synthesis and reactivity of gem-  
     dimetallic organic compounds.  
     Part I., 1039  
 Knotche L see Beck A. 485  
 Ko T see Tamura Y. 2117  
 Köll P. and Oelting M.  
     Flüssigkristalle auf  
     Kohlenhydratbasis - II. Mesogene  
     1-C-n-Alkyl-2,5-anhydro-1-desoxy-  
     L-iditole, 2837  
 Königstein V. and Tochtermann W. Die  
     Addition von Dibromcarben an  
     [6]Paracyclophan-8,9-dicarbon-  
     säurediethylester, 2961  
 Koser H.G see Bartmess J.E. 5931  
 Kobayashi J see Nakamura H. 4319  
 Kobayashi J., Ishizaki M., Nakamura  
     H., Ohizumi Y., Yamashita T., Sasaki T.  
     and Hirata Y. Amphidinolide-A, a  
     novel antineoplastic macrolide  
     from the marine dinoflagellate  
     Amphidinium sp., 5755  
 Kobayashi J., Nakamura H., Ohizumi Y.  
     and Hirata Y. Eudistomidin-A, a  
     novel calmodulin antagonist from  
     the Okinawan tunicate *Eudistoma*  
     glaucus, 1191  
 Kobayashi J., Ohizumi Y., Nakamura H.  
     and Hirata Y. Hippospongins, a  
     novel furanocesterpenes  
     possessing antipasmodic activity  
     from the Okinawan marine sponge  
     *Hippopongia* sp., 2113  
 Kobayashi M see Harpp D.N. 3975  
 Kobayashi S see Kitamura T. 3885,  
     see Taniguchi M. 4763  
 Kobayashi T see Uemura M. 2479, 967  
 Kobayashi T. and Tanaka M. Acylation  
     of active methylene compounds via  
     palladium complex-catalyzed  
     carbonylation cross-coupling of  
     organic halides, 4745  
 Kobayashi Y see Suzuki S. 69, see  
     Taguchi T. 5117, 6103  
 Kobayashi Y., Kitano Y., Matsumoto T.  
     and Sato F. A practical method  
     for multigram scale synthesis of  
     (+)-methyl 5(S),6(R)-epoxy-6-  
     formylhexanoate and 2(R),3(S)-  
     epoxyoctanal, key intermediates  
     for synthesis of leukotrienes A<sub>2</sub>,  
     4775  
 Kobiro K., Takada S., Kakiuchi K., Tobe  
     Y. and Odaira Y. Synthesis of  
     large ring proton cryptate  
     tri-decalino[2.2.2]cryptane 2H<sub>1</sub>,  
     2465  
 Koch K see Kende A.S. 6051  
 Kocočský P. Carbamates: a method of  
     synthesis and some synthetic  
     applications, 5521  
 Kocočský P., Starý I. and Turecek F.  
     On the deceptive behavior of tri-  
     n-butyltin hydride in the  
     reduction of acetates of some  
     bromohydrons. A stereospecific  
     radical rearrangement, 1513  
 Kocočský P. and Dvorák D.  
     Transition-metal catalysis in  
     Michael addition of  $\beta$ -  
     dicarbonyls: tuning of the  
     reaction conditions, 5015  
 Kodama M see Fukazawa Y. 5621, 1825,  
     1929  
 Kodama M., Shiobara Y., Sumimoto  
     H., Fukuzumi K., Minami H. and  
     Miyamoto Y. Synthesis of macro-  
     cyclic terpenoids by intra-  
     molecular cyclization X. Total  
     synthesis of methyl ceriferate-I,  
     2157  
 Kodama M., Tambunan U.S.F. and  
     Tsunoda T. Total synthesis of (-)-  
     vitrenal and its biological  
     activity, 1197  
 Kodato S see Nakagawa M. 3235, 6217  
 Koenig M see Bellan J. 1145  
 Koft E.R. and Williams M.D. The  
     formation and alkylation of  $\alpha$ -  
     ketonamide dianions, 2227  
 Koga K see Tomioka K. 369, 715,  
     3247, 4611  
 Koga T. and Nogami Y. The isolation  
     of a spiran in the rearrangement  
     of an  $\alpha$ -bromo- $\alpha$ , $\beta$ -unsaturated  
     steroidal ketones, 4505  
 Kohda K see Kawazoe Y. 2897  
 Kohmoto K see Nakatsuka S. 2753  
 Kohmert R see Sato Y. 143  
 Koiwai T see Takayama H. 5509  
 Kokil P.B. and Fry A. Isotope  
     effects and mechanism in the  
     bromination of alpha and beta-  
     carbon-14 labeled 4-nitro-4'-  
     methylstilbenes, 5051  
 Kolb M see Kauffmann T. 5351  
 Kolb M., Barth J. and Neises B.  
     Synthesis of fluorinated  $\alpha$ -amino  
     ketones Part I:  $\alpha$ -Benzamidoalkyl  
     mono-, di- and trifluoromethyl  
     ketones, 1579  
 Kolb M. and Neises B. Synthesis of  
     fluorinated  $\alpha$ -amino ketones. Part  
     III:  $\alpha$ -acylaminoalkyl  $\alpha$ , $\alpha$ '-  
     difluoroalkyl ketones, 4437  
 Kolb P.L see Lehr R.E. 1649  
 Kolai S.M., Wuilhorgne M., Dang Wu  
     B., Ba D., Bourdon S. and Bourdon  
     R. Structures of two cholesterol  
     oxidation products by 2D-NMR  
     spectroscopy, 2613  
 Kolter M., Karpi M. and Dreiding A.S.  
     The flow thermolysis of 1-isobutyl  
     alkynyl- and 2-methyl-  
     phenyl alkynyl ketones. Synthesis  
     of methylenycin B, 19  
 Kolonits P see Poppe L. 5769  
 Kometani T., Fitz T. and Watt D.S. A  
     synthesis of succinimides and  
     glutarimides from cyclic an-  
     hydrides, 919  
 Komiotis D see Bassodes M. 579  
 Komori T see Honda M. 3369, see  
     Miyanaga T. 1153  
 Komura H see Kong F. 5765  
 Kondo H see Tamura Y. 2117, 81  
 Kondo K see Fujita M. 2139, see  
     Yamaguchi S. 2411  
 Kondo S see Nishimura Y. 4323  
 Kondo T see Nakamura H. 4319, see  
     Okamoto K. 5229, 5233, see Tamura  
     H. 1801  
 Kondo Y see Ozaki S. 3157  
 Kong F., Zhu D., Xu R., Fu Z., Zhou  
     L., Iwashita T. and Komura H.  
     Structural study of tubemimoside  
     I, a constituent of Tu-bei-mu,  
     5765  
 Konishi S see Utaka M. 4737  
 Konishi Y see Corey E.J. 3556, 2199  
 Konno K., Hashimoto K., Shirahama H.  
     and Matsumoto T. A new pyridine  
     synthesis starting from  $\alpha$ , $\beta$ -  
     unsaturated carbonyl compounds,  
     3865  
 Konno K., Hashimoto K., Ohfune  
     Y., Shirahama H. and Matsumoto T.  
     Synthesis of acromelic acid A, a  
     toxic principle of *Clitocybe*  
     acromelalga, 607  
 Konosu T see Murao T. 3411  
 Konstantinović S see Mihailović  
     M.L. 2287  
 Kopola N see Näslund J.H. 1391  
 Kornilov M.Yu see Kas'jan L.A. 2921  
 Koroniak H see Dolbier W.R., Jr. 4387  
 Koseki K see Kitahara T. 1343, see  
     Sakuda S. 2475  
 Koser G.F see Shah M. 5437, 4557  
 Koster W.H see Slusarchyk W.A. 2789  
 Kostermans G.B.M., de Wolf W.H. and  
     Bickelhaupt F. 7,8-Dimethoxy-  
     carbonyl-10,11-dimethyl[5]para-  
     cyclophane, 1095  
 Koto H see Imamoto T. 3243  
 Kotsuki H see Lipshutz B.H. 4825  
 Kotsuki H., Ushio Y., Yoshimura N. and  
     Ochi M. Efficient reduction of  
     acyl chlorides with zinc boro-  
     hydride/N,N,N',N'-tetramethyl-  
     ethylenediamine, 4213  
 Koumaglo K see Chan T.H. 883  
 Kováčik C see Morrison H. 2711  
 Koz'min A.S see Zefirov N.S. 1845,  
     3971  
 Kozikowski A.P. and Jung S.H. A  
     useful approach to tricyclic com-  
     pounds and medium ring diketones  
     through the phosphoniosilylation  
     reaction, 3227  
 Kozikowski A.P., Nieduzak T.R. and  
     Springer J.P. An examination of  
      $\pi$ -facial selectivity in the  
     Diels-Alder reaction of a chiral  
     diene - a synthesis of (+)-  
     5,6,10-tri-(epi)-actinobolin, 819  
 Kozikowski A.P., Mugrage B.B., Li C.S.  
     and Felder L. Chemistry of  
     baker's yeast reduction products:  
     use of optically active (S)-(+) -  
     1-(p-toluenesulfonyl)propan-2-ol  
     and (S)-(+) -1-(phenylsulfonyl)-  
     propan-2-ol in synthesis, 4817  
 Kozłowski J.A see Lipshutz B.H. 4273  
 Kpegba K., Metzner P. and  
     Rakotonirina R. Stereospecific  
     Michael addition of dithioester  
     enethiolates with acyclic enones,  
     1505  
 Kraft G.A., Garcia E.A., Guram  
     A., O'Shaughnessy B. and Xu X.  
     Simplified cytochalasins. I.  
     Synthesis of versatile perhydro-  
     isoindolone intermediates, 2691  
 Kraft M.E., Kennedy R.M. and Holton  
     R.A. A new stereospecific  
     annulation, 2087  
 Kraft M.E. An approach to  
     eriolanin. Synthesis of  $\alpha$ -  
     methylene lactones of trans-1,3-  
     dihydroxycyclohexanes, 771  
 Krantz A see Castelhano A.L. 2435  
 Krapcho A.P. and Powell J.R.  
     Syntheses of 1,3-disubstituted  
     imidazol[1,5-a]pyridines, 3713  
 Krasutsky P.A see Kas'jan L.A. 2921  
 Kraszewski A., Delort A.M. and Teoule  
     R. Synthesis of  $N^{\bullet}$ -mono- and  
     dialkyl-2'-deoxycytidines and

- their insertion into an oligonucleotide, 861
- Kraus G.A.** see Degueil-Castaing M. 5927
- Kraus G.A.** and **Walling J.A.** A formal total synthesis of aklavinone via a blocked anthraquinone tautomer, 1873
- Kraus W.**, **Bokel M.**, **Klenk A.** and **Pöhl H.** Erratum, 1002
- Krause N** see Hopf H. 6177
- Krief A** see Clarambeau M. 4917, 1723, 1719, see Laszlo P. 3153
- Krief A.**, **Devos M.J.** and **Sevrin M.** Novel synthesis of methyl caronate, 2283
- Krieger C** see Staab H.A. 5719
- Krishna A** see Pandey G. 4075
- Krishnan L** see Bose A.K. 5955
- Krogh E.** and **Wan P.** General method for the photogeneration of benzolated cationic and anionic systems in aqueous solution. Test of relative stability of these systems in the excited state, 823
- Kronenthal D.R** see Slusarchyk W.A. 2789
- Kükenhöner T** see Reetz M.T. 5711
- Künzer H** see Paquette L.A. 5803
- Kuban R.J.** see Kirschke K. 4281
- Kubiak G** see Venkatachalam M. 4111
- Kubo I.**, **Kim M.**, **Wood W.F.** and **Naoki H.** Clitocine, a new insecticidal nucleoside from the mushroom *Clitocybe inversa*, 4277
- Kuchar V.P** see Yurchenko A.G. 1399
- Kudo J** see Takano S. 2405
- Kuhn W** see Jäger V. 2587, 2583
- Kulik N.I.** see Yurchenko A.G. 1399
- Kulnig R.K.** see Schultz A.G. 2331
- Kumagai T** see Tanaka N. 6221
- Kumagai T.**, **Segawa T.**, **Endo Z.-I.** and **Mukai T.** Photoreaction of  $\alpha$ -phenylcrotonitrile derivatives: the facile cyclopropane ring formation, 6225
- Kumagawa T** see Satoh T. 2471
- Kumamoto Y** see Ando W. 6107
- Kumar M** see Gupta B.D. 5773
- Kumar M.U** see Sonawane H.R. 6125
- Kume A** see Fujii M. 935, 3365
- Kunieda N** see Nakami J. 5109
- Kunisch F** see Reetz M.T. 4721
- Kuo Y.-H** see Saito I. 2757, see Shiao M.-J. 4059
- Kuroda A** see Niwa H. 4609
- Kuroda H** see Kiyooka S. 3009
- Kuroda S** see Ojima J. 2467, see Yamamoto K. 975
- Kuroda Y** see Tabushi I. 1187
- Kurokawa H** see Tamura R. 5759
- Kurokawa N** see Sakai-tani M. 3753
- Kurozumi S** see Bannai K. 6353
- Kusano Y** see Saimoto H. 1607
- Kusumi T** see Ishitsuka M. 2639
- Kusumoto T.**, **Hiyama T.** and **Ogata K.** Synthesis of 5-amino-2-cyano-4-silylpyrroles from silylacetylenes and trimethylsilyl cyanide, 4197
- Kutzke U** see Eckstein F. 1657
- Kumahara J** see Otsuka M. 3639
- Kumajima Y** see Hatanaka Y. 719, see Horiguchi Y. 4025, see Nakamura E. 83, 4029, see Urabe H. 1355
- Kuyt'heveskiely E** see Marugg J.E. 2661
- Kuz'mina L.G** see Ryabov A.D. 2169
- Kuzuhara H** see Ichikawa Y. 611
- Kwiatkowska C** see Alper H. 5449
- Kwok F.-C** see Capon B. 3275
- Kyz'mina L.G** see Smit W.A. 1241
- Labidalle S.**, **Min Z.Y.**, **Reynet A.**, **Thal C.** and **Moskowitz H.** Synthese d'analogues morphiniques à squelette tetrahydrodibenzo-furanique, 2861
- Lacombe L** see Tran P.L. 2371
- Ladika M.**, **Jursić B.**, **Mihalić Z.** and **Sunko D.E.** Neighboring sulfur participation in the solvolysis of 2-( $\omega$ -alkylthioalkyl)-3-methyl-2-cyclohexenyl p-nitrobenzoates, 1703
- Ladlow M.**, **Pattenden G.** and **Teague S.J.** Synthesis of  $\Delta^{(12)}$ -capnellene-38-10 $\alpha$ -diol from soft coral *Capnella imbricata*, 3279
- Lafleur Lafler L.M** see Byrne B. 1233
- Laguna M.** see Alberola A. 2027
- Laidig K** see Viberg K.B. 1553
- Laird A.A** see Fukuyama T. 6173
- Lakshminikantham M.V.**, **Jackson Y.A.**, **Jones R.J.**, **O'Malley G.J.**, **Ravichandran K.** and **Cava M.P.** Tellurolate-induced deprotection of 2,2,2-trichloro-tert-butyloxycarbonyl (TCBOC) derivatives, 4687
- Lallemand J.Y** see Jalali-Naini M. 497, see Pezczek M. 3715
- Lally D.A** see Gill M. 1933
- Lan J.Y.** and **Schuster G.B.** Free radical formation in the photo-oxidative alkylations of dicyanophthalene with alkyltriphenoxyborate salts, 4261
- Landais F** see Taarout M. 1781
- Landais Y.** and **Robin J.-P.** Le tétrakis(trifluoroacétoate) de ruthénium(IV), nouveau catalyseur à température ambiante du couplage biarylique oxydant non phénolique - première synthèse totale biomimétique du néoisostégaréne, 1785
- Landais Y.**, **Lebrun A.** and **Robin J.P.** Ruthenium(IV) tétrakis(trifluoroacétoate), a new oxidizing agent. II. A new access to Schizandrin skeleton using biaryl oxidative coupling of cis-substituted butanolides, 5377
- Landgrebe K** see Degueil-Castaing M. 5927
- Lange G.L.** and **Lee M.** Erratum, 882
- Langhals E** see Huisgen R. 5475
- Langhals H.** Polarity of liquid mixtures with components of limited miscibility, 339
- Langlois N** see Andriamialisoa R.Z. 1149
- Langlois Y** see Fall Y. 3611, see Van Bac N. 841
- Langrand G.**, **Baratti J.**, **Buono G.** and **Triantaphylides C.** Lipase catalyzed reactions and strategy for alcohol resolution, 29
- Langundi-Micas D** see Le Merrer Y. 4161
- Lansbury P.T.**, **Spagnuolo C.J.** and **Grimm E.L.**  $\gamma$ -Alkylation of  $\alpha'$ -(phenylsulfonyl)- $\alpha$ , $\beta$ -unsaturated ketones: the trianion imperative, 2725
- Lansbury P.T.** and **Mojica C.A.** Total synthesis of ( $\pm$ )-arteannuin B, 3967
- Lanza T.J** see Tischler A.N. 1653
- Lardicci L** see Caporusso A.M. 1067
- Larkins H.L.** and **Hamilton A.D.** Cyclopiperazines: a new approach to chiral macrocyclic receptors, 2721
- Larock R.C.** and **Illka S.J.** Synthesis of allylic alcohols via organo-palladium additions to unsaturated epoxides, 2211
- Laronze J** see Laronze J.Y. 489
- Laronze J.Y., Laronze J., Patigny D.** and **Lévy J.** Methylene-indolines, indolenines and indoleniniums, XXI. An indolenine approach to morphine related compounds, 489
- Larsen S.D** see Grice P.A. 1975
- Larsen G.L** see Torres L.E. 2223
- Larson R.A.**, **Garrison W.J.** and **Marley K.A.** Preparation and photo-isomerization of 2-formyl-
- cinnamaldehyde** in solution, 3987
- Laszlo P** see Chalais S. 2627, see Houbrechts Y. 705
- Laszlo P.**, **Pennetreau P.** and **Krief A.** Cleavage of selenoacetals by clay-supported metal nitrates, 3153
- Lathbury D.**, **Vernon P.** and **Gallagher T.** Palladium(II)-mediated routes to functionalised heterocycles, 6009
- Lattes A** see Escoula B. 1499
- Lau J** see Sustmann R. 5207
- Laurent A** see Haufe G. 4449
- Laurent H** see Nickisch K. 5463
- Lavallée J.-F.** see Berthiaume G. 5451
- Lavallée J.-F.**, **Berthiaume G.**, **Deslongchamps P.** and **Grein F.** Intramolecular Michael addition of cyclic  $\beta$ -ketoester on conjugated acetylenic ketone, 5455
- Lavallee D.K.**, **White A.**, **Diaz A.**, **Battioni J.-P.** and **Mansuy D.** Efficient metallocporphyrin synthesis under mild conditions using N-benzyl-porphyrins, 3521
- Lavelle P.**, **Ruel R.**, **Grenier L.** and **Bissonnette M.** Convenient access to two enantiomeric oxirane synths bearing a quaternary gem-dimethyl carbon center: synthesis of 3S-(+) and 3R(-)-2,2-dimethyl-3,4-oxo-1-butanol from R(-)-pantolactone, 679
- Lavieri F.P** see Schultz A.G. 1481
- Law S.-J.** and **Myles A.** Use of phosphotriester synthetic methods for preparation of phosphatidylethanolamine-analyte conjugates, 271
- Lawrence G.C** see Davies H.G. 1089
- Lawrynowicz W** see Hartwig J.F. 5907, see Moss R.A. 4125
- Lazaridis N.V** see Purrington S.T. 2715
- Lazaro R** see Jacquier R. 4735
- Lazraq M** see Garrigues B. 1685
- Le Bihan J.-Y** see Centric D. 3849
- Le Coq A** see Stephan D. 4295
- Le Corre M** see Daniel H. 1909
- Le Floch Y.** and **Lefevre M.** Synthèse de dihydroxy-phenacylidene triphenylphosphoranes nouveaux précurseurs de composés flavonoides: synthèse d'hydroxy-6 et hydroxy-7 chromones, 2751
- Le Floch Y.** and **Lefevre M.** Synthèse de trihydroxy-phenacylidene-triphenyl-phosphoranes une nouvelle voie d'accès aux dihydroxyflavones (chrysine, acacetine...), 5503
- Le Guillaut G.**, **De Q.T.** and **Simonet J.** The conductive sulfur/carbon mixture cathode. An efficient synthesis of thiophenes and related compounds from acetylenes, 2261
- Le Maux P** see Massonneau V. 5497
- Le Men Olivier L** see Verpoorte R. 239
- Le Merrer Y.**, **Gravier C.**, **Langundi-Micas D.** and **Depezy J.C.** Total synthesis of leukotriene (+)-LTB<sub>4</sub> from D-mannitol, 4161
- Lécozier S** see Jaouhari R. 6315, see Mahé R. 6333
- Lévy J** see Laronze J.Y. 489
- Leach A** see Brewster A.G. 2539
- Leaci M.R** see Crowley P.J. 2909
- Leaver J** see Davies H.G. 1093
- Leavitt R.K** see McIntosh J.M. 3839
- Leber P.A** see Forman M.A. 4107
- Lebib J** see Brocard J. 6325
- Lebreton J** see Brown E. 2595
- Lebrun A** see Landais Y. 5377
- Lecea B** see Aizpurua J.M. 5666, 4359
- Lechevallier A** see Beugelmans R. 6209
- Leclerc G** see Huber D. 5731

- Lecolier S** see Riondel A. 6067  
**Lee E** see Baldwin J.E. 3461, 5042  
**Lee M** see Lange G.L. 882  
**Lee N.H** see Kim K.S. 2875  
**Lee T.V** see Galan A.A. 4995  
**Lee T.V., Richardson K.A. and Taylor D.A.** Novel annulation reactions: a simple preparation of spiro-cycles and an allylsilane based bifunctional acceptor-donor annulating reagent, 5021  
**Lee-Ruff E** see Fletcher D. 4853  
**LeFevre M** see Le Floch Y. 2751, 5503  
**Leiberman S** see Kondo T. 520
- Lehn J.-M** see Heyer D. 5869  
**Lehr R.E., Kale P.L. and Tschappat K.D.** Acetoxylation at benzylic positions of tetrahydrobenzo rings with DDQ in acetic acid, 1649  
**Lei X., Doubleday C., Jr. and Turro N.J.** Photochemistry of large ring 2-phenylcycloalkanones and 2,n-diphenylcycloalkanones, 4675  
**Lei X., Doubleday C., Jr. and Turro N.J.** Synthesis and structure of large ring 2-phenylcycloalkanones and 2,n-diphenylcycloalkanones, 4671  
**Lellouche J.P** see Perrin P. 6193  
**Lemaire F., Stringat R., Pertaina C. and Fellous R.** Laser induced synthesis: condensation of acrylonitrile on mesityl oxide, 5847  
**Lemaire M** see Roussel J. 27  
**Lenoir D., Gano J.E. and McTague J.** Photocatalytic synthesis and thermal chemistry of Z-2,2,5,5-tetramethyl-3,4-diphenylhex-3-ene, a sterically congested stilbene, 5339  
**León E.I** see Francisco C.G. 2513  
**Leonard N.J** see Pereira D.E. 4129  
**Leport L** see Sibille S. 3129  
**Lequette M** see Texier-Boullet F. 3515  
**Lesimple P., Beau J.-M., Jaurand G. and Sinaÿ P.** Preparation and use of lithiated glycals: vinylic deprotonation versus tin-lithium exchange from 1-tributylstannyl glycals, 6201  
**Leslie D.R** see Kelly D.P. 2311  
**Leppagnol C** see Rigo B. 347  
**Lessen T.A** see Weinreb S.M. 2099  
**Lett R** see Prat D. 707, 711  
**Leung H.-W** see Chan Y.-Y. 3737  
**Lever J.G** see Crimmins M.T. 291  
**Levin D. and Warren S.** The stereochemically controlled Horner-Wittig route to unsaturated acids: The Baeyer-Villiger rearrangement of  $\alpha$ -(1-*Ph*,PO-alkyl)-cyclohexanones, 2265  
**Levison B.S** see Bhide R.S. 671  
**Lev W** see Lipshutz B.H. 4825  
**Ley S.V** see Doherty A.M. 105, see Greek C. 5277  
**Li C** see Wan P. 2937  
**Li C.S** see Kozikowski A.P. 4817  
**Li J** see Wang Y. 4583  
**Li Z** see Xu Y. 3017  
**Liang C.D.** Regioselective aromatic ring functionalization of dopamine analogues, 1971  
**Liang T.-Y. and Schuster G.B.** Photolysis of 3-nitrophenyl azide: trapping the reactive intermediates, 3325  
**Liang X** see Sun F. 275  
**Licini C** see Bortolini O. 6257  
**Lidgren G., Bohlin L. and Bergman J.** Studies of Swedish marine organisms VII. A novel biologically active indole alkaloid from the sponge *Geodia baretti*, 3283  
**Lidor R** see Kashman Y. 1367  
**Liljenberg M** see Kjellberg J. 877  
**Lillie T.S** see Ronald R.C. 5787  
**Lim M.-I** see Bhattacharya B.K. 815  
**Lin J.L** see Shiao M.-J. 4059  
**Lin M.-T** see DeShong P. 2091  
**Lin S** see Sheng H. 4893  
**Lindbeck G** see Gassman P.G. 6307  
**Lindberg T** see Hanson G.J. 3577  
**Lindell S.D** see Johnson W.S. 6027  
**Linderman R.J. and Godfrey A.** The synthesis and stereoselective deconjugation of a trisubstituted cyclohexadiene, 5003  
**Linzon J.C** see Barracough P. 5997  
**Lindsey J.S., Hsu H.C. and Schreiman I.C.** Synthesis of tetraphenylporphyrins under very mild conditions, 4969  
**Link P** see Eberbach W. 4003  
**Linstrommelé G** see Guillerm D. 5857  
**Linz G.S., Sanduja R., Weinheimer A.J., Alan M. and Martin G.E.** Applications of cost and homo-nuclear relay 20-NMR in the determination of the structure of a new membrane isolated from the mollusc *Planaxis sulcatus*, 4833  
**Lipkowitz K.B., Malik D.J. and Darden T.** Conformational analysis of the covalent Pirkle chiral stationary phases, 1759  
**Lipkowski A.W., Nagase H. and Portoghesi P.S.** A novel pyrrole synthesis via reaction of ketones with N-aminoimides, 4257  
**Lipshutz B.H., Kotsuki H. and Lew W.** En route to polyene macrocide total synthesis; the key chiral segments of roflamycin, 4825  
**Lipshutz B.H., Whitney S., Kozlowski J.A. and Brennan C.M.** Further insight into lower order cuprate chemistry; on the use of CuBr<sub>2</sub>M<sub>2</sub>S vs CuI en route to R<sub>2</sub>CuLi, 4273  
**Lipshutz B.H., Huff B. and Vaccaro W.** Preparation of ( $\pm$ )- $\alpha$ -alkylated amino acid derivatives via imidazoles, 4241  
**Lipshutz B.H., Vaccaro W. and Huff B.** Protection of imidazoles as their  $\beta$ -trimethylsilylthiomethyl (SEM) derivatives, 4095  
**Lister M.A** see Paterson I. 4787  
**Litaudon M. and Guyot M.** Ianthelline, un nouveau dérivé de la dobrocine, 3,5 tyrosine, isole de l'éponge *Ianthella ardis* (Bahamas), 7455  
**Liu C.-Y., Smith D.A. and Houk K.N.** An intramolecular [8-6] cyclo-addition, 4881  
**Liu J** see Bryson T.A. 3685  
**Liu J.-J** see Nakagawa M. 6087  
**Liu K.-T. and Wu Y.W.**  $\beta$ -Deuterium kinetic isotope effects in the solvolysis of 2-aryl-1,1,1-trifluoro-2-propyl tosylates and of 2-aryl-2-propyl p-nitrobenzoates. Evidence for a variation of the contribution of  $\alpha$ -methyl substituent in stabilizing cationic reaction centers with different electron demand, 3623  
**Liu M.-H** see Doyle M.P. 4395, see Ibata T. 4383  
**Liu R.S.H** see Asato A.E. 3337  
**Livinghouse T** see Edström E.D. 3483  
**Ljungdahl E.B** see Garst M.E. 4533  
**Luich M.A** see Camps P. 2041  
**López-Mardomingo C** see Alcaide B. 5129  
**Lochsmidt S., Mathey F. and Schmidpeter A.** A simple preparation of tervalent phosphates, 2635  
**Loewenthal H.J.** see Becker D. 3775  
**Logusch E.W.** Facile synthesis of D,L-phosphonotricin from methyl 4-bromo-2-phthalimidobutyrate, 5935  
**Loh J.-P** see Welch S.C. 1115  
**Loh K.-L** see Doyle M.P. 4395  
**Lombardo D.A. and Weedon A.C.** Photo-encapsulation of conjugated esters: synthesis of a San Jose scale pheromone by partially regio-controlled photochemical deconjugation, 5555  
**Lönnqvist P.M.** see Lönnqvist P.M. 5003  
**Lounasmaa M. and Jokela R.** Stereo-selective total synthesis of ( $\pm$ )-3-iso-19-epiajamalicine, 2043  
**Loupy A** see Bram C. 4171  
**Lourak M** see Vanderesse R. 5483  
**Love S.G** see Easton C.J. 2315  
**Lowe C** see Baldwin J.E. 5042, 3461  
**Lower G.T** see Jung M.E. 5319  
**Lu F.-L** see Dicker C.M. 5967  
**Lu S.-B** see Posner G.H. 659  
**Lu X. and Huang Y.** Allylic geminal diacetates as a  $\alpha^1,\alpha^1$  synthon. A convenient synthesis of bicyclo[3.3.1]nonan-9-one derivatives, 1615  
**Lüssmann J** see Hoppe D. 3591  
**Lüssmann J., Hoppe D., Jones P.G., Fittschen C. and Sheldrick G.M.** Diastereoselective synthesis of 2,3,4-trisubstituted  $\gamma$ -lactols and  $\gamma$ -lactones via regio- and stereocontrolled opening of a 1,2-epoxy-4-hydroxyalkyl carbamate with hetero-nucleophiles, 3595  
**Lucchini V** see Adam W. 2953  
**Luche J.L** see Einhorn J. 501, 1793, 1791, see Petrier C. 3149  
**Ludwig J.W., Newcomb M. and Bergbreiter D.E.** Electrophilic asymmetric syntheses of  $\alpha$ -hydroxy carboxylic acids, 2731  
**Luh T.-Y** see Ho K.M. 5383  
**Luis S.V** see Gavila F. 4779  
**Lumin S** see Mosset P. 6035, see Yadagiri P. 6039  
**Luna C** see Abarca B. 5657  
**Lund H** see Lund T. 95  
**Lund T. and Lund H.** Single electron-transfer as rate-determining step in an aliphatic nucleophilic substitution, 95  
**Lunn R.J** see Fleet G.W.J. 3057, 3053  
**Lutz E. and Biellmann J.F.** Erratum, 3940  
  
**Märkl G. and Seitz H.** (3+2)-Cyclo-additionen von 1,3-Dipolen mit 1H-1,2,4 $\lambda^3$ -Diazarsolen, 2957  
**Märkl G. and Sejpka H.** Di-[ $(2,4,6$ -tri-tert-butyl)-benzoyl]-phosphan, di-[ $(2,4,6$ -tri-tert-butyl)-benzoyl]-arsan - Keto-Enol-Tautomerie, 1771  
**Märkl G. and Dorfmüller G.** 1-R-1,3 $\lambda^3$ -Azaphosphole, 4419  
**Märkl G. and Pfleiderer S.** 1H-1,2,4 $\lambda^3$ -Diazaphosphole aus 1,3, $\lambda^4$ -Oxadiazolumsalzen bzw. Sydnone, 4415  
**Märkl G. and Wagner R.** Trimethylsilyl-1,2-Verschiebung von Germanium zu Kohlenstoff bei der Spaltung von [ $(\text{Trimethylsilyl})$ -germylmethyl-Ethern, 4015  
**Märkl G., Horn M. and Schlosser W.** Zur Wagner-Meerwein-analogen 1,2-SiMe<sub>2</sub>-Verschiebung von Silicium zu Kohlenstoff bei der Spaltung von [ $(\text{Trimethylsilyl})$ -silyl]-

- methylEthern, 4019  
**Maas** G see Kellner H. 1903  
**Mabon** F see Martin C.J. 2855  
**Macdonald D.I.** and **Durst T.A.** synthesis of *trans*-2-arylbenzo-cyclobuten-1-ols, 2235  
**Macchia M** see Iida H. 207  
**Macielag M** see Schultz A.G. 1481  
**Mackenzie N.E** see Blagbrough I.S. 1251  
**Macleod J.K** see Johns R.B. 4791  
**MacMillan J** see Beale M.H. 1109  
**Macor J.E** see Taylor E.C. 431, 2107  
**Maddox P.J** see Brown J.M. 3307  
**Maeda K** see Tamai K. 65  
**Maeda T** see Mikami K. 4189, see Shibuya M. 1351  
**Maekawa E** see Toru T. 1583  
**Maekawa T** see Ishihara T. 357  
**Maercker A** see Günther H. 2251  
**Magnol E.** and **Malacria M.** Cyclisation radicalaire des éthers propargyliques de (bromo-méthyl) diméthylsilyle, 2255  
**Magnus P., Schultz J.** and **Houk K.N.** Diversification of an intramolecular [2+4] cycloaddition reaction into a [2+2] pathway by electrophilic catalysis, 655  
**Magnus P., Walker C., Jenkins P.R.** and **Meneer K.A.** Mechanistic rationalization of an apparently non-stereospecific intramolecular Diels-Alder reaction, 651  
**Magnusson G** see Jansson K. 753  
**Maguire A.R** see Kennedy M. 761  
**Mahajan M.P** see Mazumdar S.N. 5875  
**Mahé R., Dixneuf P.H.** and **Lécolier S.** One-step synthesis of vinyl carbamates catalyzed by mono-nuclear ruthenium complexes via addition of carbon dioxide and amine to terminal alkynes, 6333  
**Mahmoudi M** see Brocard J. 6325  
**Mai K.** and **Patil G.** Facile conversion of carboxamides to nitriles, 2203  
**Maier G., Euler K.** and **Emrich R.** Erster Nachweis eines Cyclopropenylcarbonyl-Kations, 3607  
**Maignan C., Guessous A.** and **Rouessac F.** Accès aux (R,S) acyl-1 vinyl p-tolylsulfoxides à partir du (R,S) dimethylamino-2 p-tolylsulfinyl-1 ethane. Leurs réactivités en tant que diénophile, 2603  
**Maillard B** see Degueil-Castaing M. 5927  
**Maillos P** see Beugelmans R. 6209  
**Maiti S.N., Singh M.P.** and **Miettich R.G.** Facile conversion of azides to amines, 1423  
**Maitra U.** and **Breslow R.** Conversion of the cholesterol sidechain to a 17-acetyl group by remote chlorination reactions, 3087  
**Majetich G** see Giguere R.J. 4945  
**Majewski M** see Fitjer L. 3603, see Green J.R. 535  
**Majewski M., Green J.R.** and **Snieckus V.** Stereoselective deprotonation of  $\alpha,\beta$ -unsaturated amides, 531  
**Maki R.G** see Dellarla J.F., Jr. 2337  
**Maki Y** see Hirota K. 3263, see Sako M. 3877  
**Makinson I.K** see Beale M.H. 1109  
**Makosza M., Kaluza Z.** and **Winiarski J.** Reaction of carbonyl from dimethyl N-ethoxy-carbonylmethyl-imidodi thiocarbonate with benzaldehyde, 1103  
**Malacria M** see Magnol E. 2255, see Mas J.-M. 3133  
**Malavaud C** see Diallo O. 2971  
**Malik D.J** see Lipkowitz K.B. 1759  
**Mallet J.M** see Julia M. 5851  
**Malley M** see Slusarchyk W.A. 2789, see Thottathil J.K. 1533  
**Malpass J.R** see Davies J.W. 4071  
**Malthête J** see Tran P.L. 2371  
**Manabe K** see Bannai K. 6353  
**Manabe O** see Shinkai S. 1611  
**Mandal T.** see Nakami T. 5109  
**Mandal T., Moriyama T., Tsujimoto K., Kawada M.** and **Otera J.** Highly stereoselective synthesis of (2E,4E)-dienamides and (2E,4E)-dienoates via a double elimination reaction, 603  
**Mandal A.K.** and **Jawalkar D.G.** A versatile and concise route to functionally substituted Y-butyrolactones and spiro-Y-butyrolactones (lactone annelation), 99  
**Mander L.N** see Kenny M.J. 3923, 3927  
**Manes L.V** see Crews P. 2797  
**Manfredi A** see Colonna S. 387, see Huang Y. 2179  
**Manigueney P** see Marek I. 5499  
**Manigueney P., Alexakis A.** and **Normant J.F.** Diastereoselective conjugate addition to chiral  $\alpha,\beta$  ethylenic acetals, 3143  
**Manhas M.S** see Boase A.K. 5955  
**Mann A** see Taddei M. 2913  
**Mann J.** and **Thomas A.** A novel approach to *cis*-chrysanthemic acids, 3533  
**Mann S** see Bushby R.J. 2057  
**Manna S** see Mosset P. 299  
**Manna S., Viala J., Yadagiri P.** and **Falok J.R.** Synthesis of 12(S),20-, 12(S),19(R)-, and 12(S),19(S)-dihydroxy-eicos-a-cis-5,8,14-trans-10-tetraenoic acids, metabolites of 12(S)-HETE, 2679  
**Mansilla H** see González A. 2771  
**Mansour T.S** see Fraser R.R. 1640, 331  
**Mansuy D** see Lavallee D.K. 3521  
**Maquestiau A., Puk E.** and **Flamang R.** Conversion of triazolides into oxazoles by flash-vacuum pyrolysis, 4023  
**Maquin F** see Winkler F.J. 335  
**Marcaccini S** see Bossio R. 4643  
**Marcane M.M** see Wang K.K. 1123  
**Marchesini A** see Beccalli E.M. 627  
**Marcheck J.F.** and **Burrows C.J.** Synthesis of an optically spermene macrocycle, (S)-6-(hydroxymethyl)-1,5,10,14-tetraazacyclooctadecane, and its complexation to ATP, 5943  
**Marek I., Manigueney P., Alexakis A.** and **Normant J.F.** Are allenes formed from propargylic ethers through a syn or anti displacement ?, 5499  
**Mariano P.S** see Borg R.M. 2821  
**Marinas J.M** see Sinisterra J.V. 4971  
**Marinelli F** see Arcadi A. 6397  
**Marko I** see Ghosez L. 5211  
**Marley K.A** see Larson R.A. 3987  
**Marra A** see Barilli P.L. 2307  
**Marrero J.J** see Freire R. 383  
**Marshall J.A.** and **Andrews R.C.** Stereoselective total synthesis of (*i*)-isoloophytolide, a marine cembranolide natural product, 5197  
**Marshall J.A.** and **DeHoff B.S.** Stereoselective total synthesis of the cembranolide diterpene anisomelic acid, 4873  
**Marshall J.A.** and **Rothenberger S.D.** Synthesis of oxabuteneallenes, 4845  
**Martelli G** see Andreoli P. 1695  
**Martin V.S** see Ahorre B. 4991, see Palazón J.M. 4987  
**Martin-Lomas M** see Alonso López M. 3551  
**Martínez A** see Guirado A. 4063  
**Martínez-Carrera S** see Alcaide B. 4217, see de March P. 3673  
**Martin A** see Monneret C. 575  
**Martin A.R** see Hallberg A. 1959  
**Martin G.E** see Linz G.S. 4833  
**Martin G.J., Janvier P., Akoka S., Mabon F.** and **Jurczak J.A.** relation between the site-
- specific natural deuterium contents in  $\alpha$ -penenes and their optical activity, 2855  
**Martin O.R** see Hvilstad T. 3807  
**Martin S., Sauvêtre R.** and **Normant J.F.** Réactivité des fluorovinyllsilanes préparation de cétones  $\alpha$ -fluorées, 1027  
**Martin-Lomas M.** and **del Carmen Cruzado M.**  $\alpha$ -Benzyl protecting groups as hydrogen donors in catalytic transfer hydrogenolysis. Selective debenzylation of 1,6-anhydros hexoses, 2497  
**Marugg J.E** see Westerduin P. 1211  
**Marugg J.E., Tromp M., Kuyl-Yeheskiely E., van der Marel G.A.** and **van Boom J.H.** A convenient and general approach to the synthesis of properly protected d-nucleoside-3'-hydrogenphosphonates via phosphite intermediates, 2661  
**Marugg J.E., Burik A., Tromp M., van der Marel G.A.** and **van Boom J.H.** A new and versatile approach to the preparation of valuable deoxynucleoside 3'-phosphate intermediates, 2271  
**Maruoka K., Sakurai M., Fujiwara J.** and **Yamamoto H.** Asymmetric Diels-Alder reaction directed toward chiral anthracycline intermediates, 4895  
**Maruyama K** see Ohkata K. 3257  
**Maruyama T** see Kashima C. 2131  
**Mass J.-M., Gore J.** and **Malacria M.** Stereochimie de l'ouverture des époxydes allyliques par les alcynyl-borates, 3133  
**Masaki Y., Serizawa Y., Nagata K., Oda H., Nagashima H.** and **Kaji K.** Synthesis of chiral 1,2-diois and related compounds of biological activities via stepwise ring fission of 5-alkyl-6,8-dioxa-bicyclo[3.2.1]octane skeleton, 231  
**Masamune S** see Abiko A. 4537  
**Masamune T** see Fukuzawa A. 2901  
**Mase T.** and **Shibasaki M.** Synthetic studies on capnellol family: an improved synthesis of  $\Delta^{9(10)}$ -capnellene-38,88,10 $\alpha$ -triol and the first total synthesis of  $\Delta^{9(10)}$ -capnellene-38,88,10 $\alpha$ ,14-tetrol, 5245  
**Mash E.A.** and **Nelson K.A.** Homochiral ketals in organic synthesis. Enantioselective synthesis of [m.n.l]propeyanones, 1441  
**Massa W** see Hartke K. 2743  
**Massicot G** see Verpoorte R. 239  
**Masson S** see Vallée Y. 4313  
**Massonneau V., Le Maux P.** and **Simonneau G.** Catalytic asymmetric hydrogenation of  $\alpha,\beta$ -unsaturated ketones using chiral ruthenium hydride complexes, 5497  
**Mastellari A** see Dondoni A. 3915  
**Masuda R** see Hojo M. 353  
**Masuda T** see Nakatsuka S. 5735, 6245, 4327, see Suzuki K. 3661  
**Masunzu T., Nozawa K., Kawai K.** and **Nakajima S.** Electrocatalytic transesterification, 55  
**Mathews C.J** see Fleet G.W.J. 3057  
**Mathey F** see Lochschmidt S. 2635, see Mercier F. 1323  
**Mathy A** see Chalais S. 2627  
**Matsubara S** see Kimura M. 4177  
**Matsuda F.** and **Terashima S.** Total syntheses of natural (+)-sesbanamide A and (-)-sesbanamide B, 3407  
**Matsuda H** see Baba A. 77, see Shibata I. 3021  
**Matsui I** see Sato S. 5517  
**Matsuda I., Kato T., Sato S.** and **Izumi Y.** Regiocontrolled synthesis of

- allylsilanes by means of rhodium(I) or iridium(I) catalyzed isomerization of olefins, 5747
- Matsuda S.** P.T see Corey E.J. 3585
- Matsuji M** see Imanishi T. 3161
- Matsuki T** see Ozaki S. 3157
- Matsukura H** see Akita H. 5241, 5397
- Matsuoto G** see Schiehser G.A. 5587
- Matsuoto M** see Hatano N. 3169, see Nishiyama H. 1599
- Matsuoto S** see Sakuda S. 2475
- Matsuoto T** see Kobayashi Y. 4775
- Matsumoto Y** see Shono T. 6083, see Ueoka R. 1183
- Matsumura K** see Furukawa N. 3899
- Matsumura S** see Miki S. 3669
- Matsumura Y** see Shono T. 6083
- Matsuwo H** see Murao T. 3411
- Matsuwo H** see Sato T. 4339
- Matsushita Y** see Tamura N. 3749
- Matsuura S** see Sugimoto T. 4179
- Matsuura S., Murata S.** and Sugimoto T. Quinonoid dihydrobiotin, an important metabolic intermediate of biotin cofactor in the aromatic hydroxylation of amino acids, 585
- Matsuura T** see Fujimori K. 1179, see Ito Y. 3261, see Nishinaga A. 2649, see Saito T. 2757, 6385
- Matsuaki J., Hotoda H., Sekine M.** and Hata T. Bis(2,4,6-trihalo-phenoxy)trichlorophosphoranes: novel condensing reagents for internucleotidic phosphotriester bond formation via active phosphorochloridate intermediates, 5645
- Matsuza S** see Horiguchi Y. 4025, see Nakamura E. 4029
- Matteson D.S** see Sadhu K.M. 795
- Matteson D.S.** and **Kandil A.A.** (*S,S*-diisopropylethanediol ("DIPED")): a new chiral director for the  $\alpha$ -chloro boronic ester synthesis, 3831
- Matteucci M.D** see Froehler B.C. 469
- Matthews A.J** see Deardorff D.R. 1255
- Matthews D.P., Whitten J.P.** and McCarthy J.R. A facile synthesis of aromatic trifluoromethyl compounds via orthothio esters, 4861
- Mattioli G** see Tambouli A. 4149
- Mauren B., Hauser A.** and **Froidevaux J.-C.** (*E*)<sub>4</sub>-8-dimethyl-1,3,7-nonaatriene and (*E*,*E*)<sub>4</sub>,8,12-trimethyl-1,3,7,11-trideca-tetraene, two unusual hydrocarbons from cardamon oil, 2111
- Maurette M.T** see Barre G. 6197
- Maurya R** see Chera E. 3935
- Maximov O.B** see Fedoreyev S.A. 3177
- Maxwell J.R** see Chicarelli M.I. 4653
- Mayall J** see Davies H.G. 1089
- Mayenfeld P** see Vögtle F. 695
- Mayer H., Schuster F.** and **Sauer J.** Photochemisch induzierte (2+2)-Cycloadditionen in Micellen: Ein Vergleich des Produktspektrums mit Reaktionen in Lösung, 1289
- Mazumdar S.N., Itmusaud I.** and **Mahajan M.P.** Diels-Alder cyclo-addition reactions of 1,3-diaza-butadienes with ketenes, 5875
- Mazzuckelli T.J** see Baldwin S.W. 5975
- McAdam D.P.** and **Stick R.V.** The synthesis of (*R*)-2',3'-dihydroxy-propyl 5-deoxy-5-dimethyl-arsinoyl- $\beta$ -D-riboside, a naturally-occurring, arsenic-containing carbohydrate, 251
- McCarthy J.R** see Matthews D.P. 4861
- McClure C.E** see Peterson I. 4787
- McClusky J.V** see Wiberg K.B. 3083
- McCombie S.W., Metz W.A.** and **Afonso A.** Synthesis of 3-heterosubstituted isocouphen and iso-oxacephem antibiotics, 305
- McCormick A.S** see Becker A.M. 3431
- McCullough K.J** see El-Hossini M.S. 3783
- McDougal P.G.** and **Oh Y.-I.** A facile elaboration of aldehydes to 2-alkyl-3-thiophenylfurans, 139
- McEwen W.E** see Cairns S.M. 1541
- McGimpsey W.G.** and **Scalano J.C.** Characterization of thiocarbonyl ylides in the reaction of triplet carbenes with thikketones, 547
- McIntosh J.M.** and **Leavitt R.K.** Alkylation stereochemistry of glycinates. Double chiral induction with secondary halides, 3839
- McKay R** see El-Hossini M.S. 3783
- McKern I.G** see Kelly D.P. 2311
- McKervey M.A** see Cronin J.P. 757, see Kennedy M. 761
- McKinney J.A** see McLaughlin M.L. 5595, see Paquette L.A. 5599
- McLaughlin M.L** see Paquette L.A. 5599
- McLaughlin M.L., McKinney J.A.** and **Paquette L.A.** Efficient preparation of homochiral bicyclo-annulated cyclo-pentadienes via the skatobol rearrangement. Avoidance of limitations due to angle strain, 5595
- McLean S** see Jacobs H. 1453
- McMeekin D.S** see Deardorff D.R. 1255
- McTague J** see Lenoir D. 5339
- McVickar M.B** see Doyle M.P. 4395
- Mélot J.-M.**, **Tixier-Boulet F.** and **Foucaud A.** Preparation and oxidation of  $\alpha$ -nitro alcohols with supported reagents, 493
- Meah Md.Y** see Ponaras A.A. 4953
- Medici A.** see Dondoni A. 3796, 5269
- Mehendale A.R** see Argade A.B. 3529
- Mehrotra M.M** see Corey E.J. 5173
- Mei Q** see Halton B. 5159
- Meier H** see Jacob D. 5703
- Meijer E.M** see Vriesema B.K. 2045
- Meinhardt K.-P** see Häfner K. 1669
- Mel'nikova V.I** see Danilova G.A. 2489
- Melching K.H., Hiemstra H., Klaver W.J.** and **Speckamp W.N.** Total synthesis of (i)-anatoxin-a via N-acyliminium intermediates, 4799
- Melis S** see Cabiddu S. 4625
- Mellidis A.S.** and **Papageorgiou V.P.** Novel method for selective esterification of polyhydroxy-anthraquinones, 5881
- Mellor J.M** see Abd El Sami Z.K.M. 5289, 5293, see Bloom A.J. 873
- Menéndez J.C., Trigo G.G.** and **Söllhuber M.M.** The application of ultrasound to the strecker synthesis on 9,10-dimethoxy-1,3,4,6,7,11b-hexahydrobenzo[a]-quinolizin-2-one, 3285
- Meneer K.A** see Magnus P. 651
- Menge W.M.P.B** see Hogewege H. 2767
- Menger F.M.** and **Williams D.Y.** Synthesis and properties of a surfactant-cyclodextrin conjugate, 2579
- Mengoli M** see Boldrini G.P. 4223
- Meou A** see Pellissier H. 3505, 2979
- Merod R** see Ortho R.M. 2519
- Mercier C** see Mignani G. 2591
- Mercier F.** and **Mathey F.** Une nouvelle voie d'accès au cycle phosphirene, 1323
- Méreyi R** see Van Hoecke M. 4569
- Merrett B.K** see Cameron D.W. 2421, 2417
- Merritt A** see Meyer W.L. 1449
- Mesland J.M** see Hatem J. 3723
- Mestdagh H., Morin N.** and **Roland C.** Gas phase ion chemistry: a comparative study of reaction of first row transition metal cations with 2-methyl propane, 33
- Meth-Cohn O** see Crowley P.J. 2909
- Meth-Cohn O.** and **van Vuuren G.** Are thiophenes attacked at sulphur by nitrenes?, 1105
- Metz P** see Trost B.M. 5691, 5695
- Metz W.** see McCombie S.W. 305
- Metzner P** see Kegba K. 1505
- Meyer G., Rollin Y.** and **Perichon J.** Electrocatalyse par des complexes du nickel de la synthèse d'iodes aromatiques ou vinyliques à partir de dérivés bromés correspondants, 3497
- Meyer W.L., Brannon M.J., Merritt A.** and **Seebach D.** Annulation of 2-formyl-2-cyclohexenones by reaction with enamines, 1449
- Meyers A.I** see Dickman D.A. 1465
- Mezzina E** see Capobianco M. 1387
- Micetich R.G** see Maiti S.N. 1423
- Michaelides M.R** see Roush W.R. 3353
- Michels E.** and **Neumann W.P.** Additions of free dimethyl-geminalene to vinyl ketones and  $\alpha$ -diketones, 2455
- Miesch M** see Franck-Neumann M. 5215
- Mignani L** see Pornet J. 5479
- Mignani G., Morel D., Colleuelle Y.** and **Mercler C.** A novel C<sub>6</sub>-terpene synthon: 2-methyl-6-methylene-1,3E,7-octatriene, 2591
- Mignani S.M** see Trost B.M. 4137
- Mihailović M.Lj., Konstantinović S.** and **Vukićević R.** The conversion of primary alcohols to the corresponding aldehydes by a modified lead tetaacetate oxidation, 2287
- Mihalić Z** see Ladika M. 1703
- Mihasi K** see Miyamoto T. 1153
- Mikaelian G.S** see Simonian S.O. 1245, see Smit W.A. 1241
- Mikami A** see Fujimori K. 1179
- Mikami K., Kawamoto K.** and **Nakai T.** Application of [2,3]Wittig and [3,3]Claisen rearrangements in steroid side chain synthesis. A highly stereocontrolled entry to either (2S)- or (2R)-hydroxy-23-carboxylic acid, 4899
- Mikami K., Kasuga T., Fujimoto K.** and **Nakai T.** Asymmetric [2,3]Wittig rearrangement involving chiral potassium azaenolates. The dramatic influence of the potassium counterion and its complexation with 18-crown-6, 4185
- Mikami K., Takahashi O., Tabei T.** and **Nakai T.** Novel silyl triflate-mediated [2,3]Wittig sigma-tropic rearrangement. The possible intervention of an oxygen ylide, 4511
- Mikami K., Maeda T.** and **Nakai T.** [2,3]Wittig rearrangement-Peterson olefination sequence: a stereocontrolled approach to conjugated diynes, 4189
- Miki S., Matsumura S., Ohno T.** and **Yoshida Z.** Co(II)porphyrin catalyzed isomerization of bicyclobutane carboxylic triole, 3669
- Miki Y** see Kelly T.R. 6049
- Millar J.C** see Webster F.X. 4941
- Miller M.J** see Iwagami H. 3095
- Miller R.D.** and **Theis W.** A novel ring expansion of 1-carboethoxy-1,1-trimethylene-3-diazo-2-propanone, 2447
- Miller S.R** see Gatto V.J. 327
- Mills R.J** see Oppolzer W. 183
- Mimoun H** see Prandi J. 2617
- Mimura S** see Tsuboi S. 2643
- Min S** see Murali T. 4593
- Min Z.Y** see Labidalle S. 2861
- Minami H** see Kodama M. 2157
- Minami I** see Tsuji J. 731, 2483
- Minami I., Yamada M.** and **Tsuji J.** Oxidation of alcohols with allyl

- methyl carbonate by means of ruthenium catalyst, 1805
- Minami T see Umaru M. 2479, 967, see Yamaguchi M. 2401, 959
- Minisci F see Vismara E. 3187
- Mioskowski C see Heitz M.P. 3859, see Moustakis C.A. 303
- Miranda E.I see Soderquist J.A. 6305
- Miranda M.A see Camps P. 2041
- Mishima M., Fujio M. and Tsuno Y. Substituent effects on the gas phase basicities of acetophenones, 939
- Mishima M., Fujio M. and Tsuno Y. Substituent effects on the gas phase basicities of methyl benzoates. Effects of resonance demand on substituent effects, 951
- Mishra P see Overman L.E. 4391
- Misintsev V.V see Nikishin G.I. 4215
- Mistry A.G., Smith K. and Bye M.R. A superior synthetic method for the bromination of indoles and benzimidazoles, 1051
- Misu D see Hirao T. 933, 929
- Misumi S see Sawada M. 3013, 5649, see Yamaguchi S. 2411
- Mitchell R.H. and Weerawarna S.A. A new synthesis of bridge difunctionalised [2,2]metacyclopheanes using a low valent titanium coupling procedure. The first synthesis of  $[\alpha,\beta]$ -meta-ortho-metacyclophanes and their possible conversion into biradicaloid dihydropyrenes, 453
- Mitsudo T see Hori Y. 5389
- Mitsudo T., Hori Y., Yamakawa Y. and Watanabe Y. Ruthenium complex catalyzed selective addition of carboxylic acids to acetylenes giving enol esters, 2125
- Mitsuhashi H see Kaneko K. 2387
- Miyachi N see Ohnuma T. 219
- Miyachi Y see Niwa H. 4605, 4609, 4601
- Miyagawa K see Kato S. 4595
- Miyai T see Nakamura K. 3155
- Miyake F see Spaltenstein A. 2095
- Miyake H. and Yamamura K. Lewis acid catalyzed substitution of allylic nitro compounds with cyano-trimethylsilane, 3025
- Miyakoshi T see Nagaoaka H. 223
- Miyamoto H., Yui K., Aso Y., Otsubo T. and Ogura F. 3,4-Dichalcogen-bridged fluoranthenes as new electron donors, 2011
- Miyamoto M see Fukuzawa A. 2901
- Miyamoto T., Higuchi R., Komori T., Fujioka T. and Mihashi K. Isolation and structures of aplykurodins A and B, two new isoprenoids from the marine mollusk Aplysia kurodai, 1153
- Miyamoto Y see Kodama M. 2157
- Miyano M see Djuric S.W. 4403
- Miyashi T see Kubato C. 925
- Miyashita A., Ishida J. and Nohira H. Novel oxirane formation via 1-metalla-2-oxacyclobutanes, 2127
- Miyaura N., Ishiyama T., Ishitaki M. and Suzuki A. Palladium-catalyzed crosscoupling reactions of B-alkyl-9-BBN or trialkylboranes with aryl and 1-alkenyl halides, 6369
- Miyaura N., Satoh M. and Suzuki A. Stereo- and regiospecific syntheses to provide conjugated (E,Z)- and (Z,Z)-alkadienes, and arylated (Z)-1-alkenyl boronates with 1-bromo-alkenes and aryl iodides, 3745
- Miyazaki H see Nakatsuji S. 2391
- Miyazaki K see Itsuno S. 3033
- Miyazaki M see Saito S. 5249
- Miyazawa M see Suzuki K. 6237, 373, see Takahashi T. 3881
- Miyazawa T. and Endo T. Oxidative cleavage of benzyl ethers by use of oxonium salt, 3395
- Mizobuchi T see Ito H. 6373
- Mizuno K see Ichinose N. 5619
- Mizutani A see Itaya T. 4043
- Mikhail A. and Hamel J. Alkylation of Schiff base anions with  $\omega$ -halogenated esters: a lactam synthesis, 4435
- Möller A see Kirschke K. 4281
- Möller T see Kaufmann T. 5351
- Mobasheri S. and Johnston M. A novel approach to deacylation of cephalosporin-3-en esters, 3333
- Modena G see Bortolini O. 6257, see De Lucchi O. 4347
- Modro T.A. Phosphate monoesters monoanions as precursors for metaphosphate ion structural manifestation in the solid state, 3063
- Mohammadi F. and Still W.C. Dichlorocarbene cyclopropanation of allylic alcohols, 893
- Mohan L see Murray R.W. 2335
- Moingeon M.-O see d'Incan E. 4175
- Moise C see Dormond A. 1497
- Mojarrad F see Abarca B. 3543
- Mojica C.A see Lansbury P.T. 3967
- Mokni M see Franck-Neumann M. 3861
- Molander G.A. and Andrews S.W. Chelation-controlled cyclization of  $\beta$ -ketoester-substituted and  $\beta$ -ketamide-substituted allyl-silanes, 3115
- Molander G.A. and Shubert D.C. Silyl-substituted  $\pi$ -allylnickel halides. A convenient synthesis of allylsilanes, 787
- Moldvai I., Vedres A., Tóth G., Szántay C., Jr. and Szántay C. Synthesis of vinca alkaloids and related compounds XXXI unusual Polonovski reaction of some vinca alkaloids, 2775
- Molinari H see Beccalli E.M. 627
- Molino B see Sunay U. 4697
- Molnar P see Parkes K.E.B. 2535
- Molakov A.N see Nikishin G.I. 4215
- Moloney M.G., Pinhey J.T. and Roche E.G. 'Alk-1-ynylead triacetates' as alk-1-ynyl carbocation equivalents. The  $\alpha$ -alk-1-ynylation of  $\beta$ -dicarbonyl compounds and nitronate salts, 5025
- Monden R see Ichikawa Y. 611
- Monti J.L see Thottathil J.K. 151
- Monkiewicz J see Pietrusiewicz K.M. 739
- Monneret C., Martin A. and Pais M. Synthesis of the oligosaccharide moieties of Musettamycin and Marcellamycin, new antitumour antibiotics, 575
- Montes J.R see Genet J.P. 4573
- Montevocchi P.C see Benati L. 1739
- Moody C.J. see Heslin J.C. 1403
- Moody C.J. and Toczek J. A new use of the Birch reduction. Synthesis of 2,3-disubstituted cyclopent-2-en-1-ones from 6-methoxyindanone, 5253
- Mook R., Jr see Stork G. 4529
- Moore L.L see Atkins R.K. 2451
- Mootoo D see Sunay U. 4697
- Morales G see Khanidelwali Y. 6249
- Morand P see Cristau H.-J. 2965, 1775
- Morel D see Mignani G. 2591
- Moreno-Manas M see de March P. 3673
- Moreira E see Cacchi S. 3931, 5541
- Moretti R. see Oppolzer W. 4713, 831
- Morey J see Saá J.M. 5125
- Morf J. and Szeinied G. Tetra-cyclo[5.2.0.0<sup>1,7</sup>]nonane, a [2.2.1]propellane derivative as a reaction intermediate, 5363
- Morgan T.M. see Schuda P.F. 2567
- Mori A see Ishihara K. 983
- Mori A., Ishihara K. and Yamamoto H. Reductive cleavages of chiral acetals using Lewis acid-hydride system, 987
- Mori K see Kitahara T. 1343, see Ohno M. 3381
- Mori K. and Kato M. Synthesis and absolute configuration of (+)-hernandulcin, a new sesquiterpene with intensely sweet taste, 981
- Mori M. see Kitahara T. 1343
- Mori S. see Saito I. 6385
- Mori S., Ayoma T. and Shioiri T. New methods and reagents in organic synthesis. 65. A stereoselective synthesis of tilivaline, 6111
- Moriarty R.M. and Khosrowshahi J.S. A versatile synthesis of vicinal diazides using hypervalent iodine, 2809
- Morii T see Saito I. 6385
- Morikawa T see Taguchi T. 6103
- Morimitsu K see Tabushi I. 51
- Morimoto T see Takahashi H. 4477
- Morimoto Y., Fujiwara Y., Taniguchi H., Hori Y. and Nagano Y.  $PdCl_2(MeCN)_2$ -catalyzed carbonylation of diethylamine with carbon dioxide: selective synthesis of tetraethylurea and diethyl-formamide, 1809
- Morin C. Erratum, 1744
- Morin J.M., Jr see Boyd D.B. 3453
- Morin N see Mestdagh H. 33
- Morita N., Asao T., Tajiri A., Sotokawa H. and Hatano M. Haptotropic rearrangement of tricarbonyl(2-acyloxytrpone) iron, 3873
- Morita T see Fujita M. 2135
- Moriwake T see Saito S. 5249
- Moriyama T see Mandai T. 603
- Moriyasu M see Yamaguchi R. 211
- Moriyasu Y., Yasuda A. and Uchida K. Trifluoromethyl group induced highly stereoselective synthesis of  $\alpha$ -hydroxy carbonyl compounds, 1833
- Morris G.A see Bu'Lock J.D. 2917
- Morris J. and Wishka D.G. Synthesis of lipoxin B<sub>2</sub> 803
- Morrison H. and Kovak C. Silver ion perturbation of olefin photochemistry, 2711
- Mortezaei R., Piva O., Henin F., Muzart J. and Pete J.-P. Evaluation of the steric interactions responsible for the enantioselective photodeconjugation of  $\alpha,\beta$ -unsaturated esters, 2997
- Morton H.E see Guindon Y. 1237
- Mortex A see Karim A. 345
- Moskali J., van Stralen R., Postma D. and van Leusen A.M. A new synthetic approach to the benzodiazepine ring system. Synthesis and electrocyclic ring closure of dialkenyl and alkenyl-aryl substituted pyrroles, imidazoles and oxazoles, 2173
- Moskau D see Günther H. 2251
- Moskowitz see Labidalle S. 2861
- Moss R.A. see Hartwig J.F. 5907, see Ueda R. 1183
- Moss R.A., Lawrynowicz W., Hadel L.M., Hacker N.P., Turro N.J., Gould I.R. and Cha Y. Are phenylhalo-carbenes ambiphilic?, 4125
- Moss R.A., Fedorynski M., Kmiecik-Lawrynowicz G. and Terpinski J. Exchange reactions of diazirines: 3-X-3-methyl-diazirines and derived carbenes, 2707
- Moss R.A., Fedorynski M., Terpinski J. and Denney D.Z. Fluoromethoxy-diazirine and fluoromethoxy-carbene, 419
- Moss R.E. see Davies J.W. 4071
- Mosset P. see Moustakis C.A. 303, see Yadagiri P. 6039
- Mosset P., Yadagiri P., Lumin S., Capdevila J. and Falck J.R. Arachidonate epoxigenase: total synthesis of both enantiomers of

- 8,9- and 11,12-epoxy-eicosatrienoic acid, 6035  
**Mosset P.,Manna S.,Viala J. and Falck J.R.** Isomerization of epoxides to allylic alcohols using methylmagnesium N-cyclohexylisopropylamide, 299  
**Motohashi S** see Sato T. 2689  
**Mourino A** see Castedo L. 1523  
**Moursoumidis J. and Wege D.** The synthesis of thieno[3,4-b]furan
- Naengchomnong W.,Thebtaranonh Y.,Wiriyachitra P.,Okamoto K.T. and Clardy J.** Isolation and structure determination of four novel diterpenes from *Jatropha curcus*, 2439  
**Naengchomnong W.,Thebtaranonh Y.,Wiriyachitra P.,Okamoto K.T.**
- Moustakis C.A.,Weerasinghe D.K.,Mosset P.,Falck J.R. and Mioskowski C.** Synthesis of 12(R), 13(S)-oxido-9Z-octadecenoic (veronicic) and 13(S)-hydroxy-9Z-11E-octadecadienobiole (coriolic) acids, 303  
**Mühlbauer G** see Hauptmann H. 1315, 6189  
**Mulla M** see Crandall J.K. 2243  
**Muckensturm B** see Riss B.P. 4979  
**Mueller R.H** see Godfrey J.D., Jr. 2793, see Slusarchyk W.A. 2789  
**Mugrage B.B** see Kozielski A.P. 4817  
**Mukai T** see Kabuto C. 925, see Kumagai T. 6225, see Tanaka N. 6221  
**Mukherjee D** see Bhattacharyya S. 5303  
**Mukhopadhyay R** see Bhattacharjya A. 1215  
**Mullbacher A** see Waring P. 735  
**Mullen K.,Schnickler H.,Frei B. and Wolf H.R.**  $^{13}\text{C}$  NMR of carbonyl compounds-IV. Solution conformation of  $\beta$ -ionone and related diones, 477  
**Munroe J.E** see Boyd D.B. 3457  
**Murao T.,Sasaki M.,Konuso T.,Matsuura H. and Takahashi T.** Synthesis of bruceantin skeleton, 3411  
**Murahashi S.,Taniguchi Y.,Imada Y. and Taniguchi Y.** Palladium(0) catalyzed azidation and amination of allyl acetates. Selective synthesis of allyl azides and primary allylamines, 227  
**Murai S** see Yoshida T. 3037  
**Murai T** see Kato S. 4595  
**Murai T.,Oida S.,Min S. and Kato S.** Thiophilic halogenation of thiocarboxylic Acid-O-silyl esters. A facile preparation of acyl-sulfenyl halides, 4593  
**Murakami M** see Kitanura T. 3885  
**Murata I** see Nakazawa T. 3005  
**Murata M** see Fuji K. 5381, see Tezuka T. 3627, see Tsuda Y. 3385  
**Murata S** see Matsuura S. 585, see Sugimoto T. 4179, see Tukada H. 235  
**Murata T** see Yoshida J. 3373  
**Murayama E** see Sato T. 4339, 1621  
**Murray A.W** see Devchand D.K. 4635  
**Murray R.W.,Jeyaraman R. and Mohan L.** A new synthesis of nitro compounds using dimethyl-dioxirane, 2335  
**Murthy K.S.M.** see Hassner A. 1407  
**Murtiashaw C.W** see Burke S.D. 449  
**Mushtaq M** see Yang S.K. 433  
**Muto M** see Sato M. 6091  
**Muzart J** see Henin F. 6339, see Mortezai R. 2997, see Piva O. 3001  
**Myers A.G** see Corey E.J. 5083  
**Myles A** see Law S.-J. 271
- Nadkarni S.R.,Akut P.M.,Ganguli B.N.,Khandelwal Y.,de Souza N.J.,Rupp R.H. and Fehlhaber H.W.**
- Microbial transformation of 1,9-dideoxyskoforskolin to forskolin, 5265**  
**Naengchomnong W.,Thebtaranonh Y.,Wiriyachitra P.,Okamoto K.T. and Clardy J.** Isolation and structure determination of four novel diterpenes from *Jatropha curcus*, 2439  
**Naengchomnong W.,Thebtaranonh Y.,Wiriyachitra P.,Okamoto K.T.**
- Nakanishi T** see Sakaki T. 593  
**Nakao A** see Oppolzer W. 5471  
**Nakao H** see Shinkai S. 1611  
**Nakaato Y** see Fujise Y. 2907  
**Nakata M** see Kinoshita M. 1811, 1815  
**Nakata T.,Saito K. and Oishi T.** Synthetic studies on (+)-aplasmycin. 2. Stereoselective synthesis of Corey's key intermediate, a formal total synthesis, 6345
- Nakanishi S.,Yamada K. and Goto T.** Introduction of substituent onto 4-position of indole nucleus by intermolecular cyclization of  $\alpha,\beta$ -dehydrotryptophan methyl ester with aldehyde, 4757  
**Nakatsuka S.,Ueda K.,Goto T.,Yamamoto M.,Nishimura S. and Kohmoto K.** Structure of AF-toxin II, one of the host-specific toxins produced by *Alternaria alternata* strawberry pathotype, 2753  
**Nakatsuka S.,Feng B.,Goto T. and Kihara K.** Structures of flazin and YS, highly fluorescent compounds isolated from Japanese soy sauce, 3399  
**Nakatsuka S.,Miyazaki H.,Teranishi K. and Goto T.** Synthetic studies on fumitremorgin I. Synthesis of ( $\pm$ )-12-deoxy-12-epifumitremorgin B, 2391  
**Nakatsuka S.,Masuda T.,Asano O.,Teramae T. and Goto T.** Synthetic studies on teleocidin I. Regioselective introduction of 4-amino and 7-acyl groups on indole derivative, 4327  
**Nakatsuka S.,Masuda T. and Goto T.** Synthetic studies on teleocidin II. Synthesis of indole derivatives containing the same substituent to teleocidin B at 6- and 7-positions of indole nucleus, 6245  
**Nakatsuka S.,Masuda T.,Sakai K. and Goto T.** Synthetic studies on teleocidin IV. An efficient synthesis of (-)-indolactam V, 5735  
**Nakatsuka S.,Teranishi K. and Goto T.** Total synthesis of fumitremorgin B, 6361  
**Nakayama H** see Sasaki T. 1603  
**Nakazawa T.,Ashiizawa M.,Nishikawa F.,Jinguji M.,Yamochi H. and Murata I.** The reactions of 4,5-dehydrotropone with mor'holine enamines. [2+2]cycloaddition reaction of dehydrotropone, 3005  
**Namekata N** see Takahashi K. 5515  
**Nemetkin N.S** see Ziegler U. 5825  
**Namikawa K.,Endo Y. and Shudo K.** Chemistry of O-arylhydroxylamines. A novel acid-catalyzed rearrangement of O-aryl-N-acetoacetylhydroxylamines to benzofurans, 4209  
**Namiki T** see Uchida I. 2015  
**Nanbu H** see Uneyama K. 2395  
**Nanjundiah B.S** see Sonawane H.R. 6125  
**Naoiki H** see Kubo I. 4277  
**Napoleano M** see Chiarino D. 3181  
**Narasimhamurthy N. and Samuelson A.G.** Synthesis of aryl ortho-carbonates, 991  
**Narasimhamurthy N. and Samuelson A.G.** Thiocarbonyl to carbonyl group transformation using CuCl and NaOH, 3911  
**Narasimhan N.S. and Patil P.A.** A novel cyclopentane annulation reaction: new synthesis of

- estrone, 5133  
 Nargund R.P see Grieco P.A. 4813  
 Narisano E see Guanti G. 4639, 3547  
 Maruse Y. and Yamamoto H. Organoo-aluminum reagent as a chemical tool for asymmetrication, 1363  
 Nashed M see Andersson F. 3919  
 Naeri K see Cook M.J. 3853  
 Navech J. and Revel M. Etude de l'action de l'acide carboxylique de diethyle sur la tris(tert-butyl)-phenylphosphine, 2863  
 Negishi E see Sawada H. 775  
 Negishi E. and Tour J.M. Complete reversal of regiochemistry in cyclic acylpalladation. Novel synthesis of quinones, 4869  
 Negishi E., Cederbaum F.E. and Takahashi T. Reaction of zirconocene dichloride with alkylolithiums or alkyl Grignard reagents as a convenient method for generating a "zirconocene" equivalent and its use in zirconium-promoted cyclization of alkenes, alkynes, dienes, enynes, and diynes, 2829  
 Neier R see Brodbeck H. 343  
 Neises B see Kolb M. 4437, 1579  
 Nelson D.A see Samuels W.D. 3091  
 Nelson D.J. and Cooper P.J. An experimental and theoretical investigation of the influence of alkene homo energy level upon the hydroboration reaction. Additional evidence supporting an early transition state which has retention of alkene character, 4693  
 Nelson K.A see Mash E.A. 1441  
 Nemery I see De Lombart S. 5099  
 Nerz-Stormes M. and Thornton E.R. Apparent chelation control in aldol reactions of chiral ( $\text{Me}_2\text{CHO}$ ), $\text{Ti}$ -enolates, 897  
 Neugebauer F.A. and Fischer H. 5,6,8,9-Tetraaza[3.3]paracyclophane, transannular effect on the  $n \leftarrow n^*$  transition, 5367  
 Neumann W.P see Hillner K. 5347, see Michel E. 2455  
 Newcomb M see Ludwig J.W. 2731  
 Newton C see Johnson W.S. 6027  
 Newton R.F see Ravenscroft P. 747  
 Ngovinvachai P see Russell G.A. 3479  
 Nguyen Dinh Th see Fetizon M. 1777  
 Nguyen L.T see Townsend C.A. 3819  
 Nicholas K.M see Saha M. 915  
 Nickisch K., Bittler D., Laurent H. and Wiechert R. Säure-katalysierte Umlagerungen von 15 $\beta$ ,16 $\beta$ -Methylen-1 $\alpha$ -pregnen-21,17-carbolacton-Derivaten, 5463  
 Nickon A. and Weglein R.C. Synthesis of 5-brexyl brostanes: Relevance to carbene and carbocation chemistry, 2675  
 Nickson T.E. A highly efficient one-step synthesis of ( $\pm$ ) dihydro-acinidiolide, 1433  
 Niclouau K.C., Chung Y.S., Hernandez P.E., Taffer I.M. and Zipkin R.E. Total synthesis of 20-hydroxy- and 20-carboxy-leukotrienes B<sub>2</sub>, 1881  
 Nieduzak T.R see Kozikowski A.P. 819  
 Niele F.G.M., Zwicker J.W. and Nolte R.J.M. Synthesis and properties of a novel cavity-forming ligand-system based on diphenyl-glycoluril, 243  
 Nies D.E see Flynn D.L. 5075  
 Niimura K see Corey E.J. 2199, 3556  
 Niizuma S see Kawata H. 4489  
 Nikam S.S see Wang K.K. 1123  
 Nikishin G.I., Troyanov E.I., Misintsev V.V., Molokanov A.N. and Ogibin Y.N. Remote oxidation of carbonyl compounds in  $\text{Na}_2\text{S}_2\text{O}_8\text{-NaCN}$ : essentially simple approach to  $\gamma$ - and  $\delta$ -cyanoderivatives, 4215  
 Ninomiya S see Kawazoe Y. 2897  
 Nisar M see Takahashi T. 5103, see Tsuji J. 2483  
 Nishii H see Ozaki S. 3157  
 Nishikawa F see Nakazawa T. 3005  
 Nishikawa M see Uchida I. 2015  
 Nishikimi Y see Wakamatsu T. 6071  
 Nishikubo T., Iizawa T., Iida M. and Isobe N. Convenient syntheses of cyclic carbonates by new reaction of oxiranes with 8-butyrolactone, 3741  
 Nishimoto S see Ohtani B. 2019  
 Nishimura A see Nokami J. 5109  
 Nishimura J., Yamada N., Ueda E., Ohbayashi A. and Oku A. Synthesis of [3.n-3.n]paracyclophane derivatives by cationic cyclization of styrene derivatives, 4331  
 Nishimura S see Ito Y. 3261, see Nakatsuka S. 2753  
 Nishimura Y., Kondo S. and Umezawa H. The total synthesis of (-)-indicine N-oxide and intermediate N-oxide, 4323  
 Nishinaga A., Yamazaki S. and Matsaura T. Novel oxidative cleavage of carbon-carbon bond in hydrazone by oxygenation with cobalt Schiff base complex, 2649  
 Nishio T., Nishiyama T. and Omote Y. New and stable endoperoxide from the pteridin-2,4,7-trione and singlet oxygen, 5637  
 Nishioka L.I see Doyle M.P. 4395  
 Nishiaki W. see Shibusawa M. 1351  
 Nishikawa T see Taguchi I. 6103  
 Nishiyama T see Tabushi I. 4589  
 Nishiyama E see Suboi S. 1915  
 Nishiyama H., Arai H., Kanai Y., Kawashima H. and Itoh K. Oxidative cyclization of  $\beta$ -stannyli hydrazones, 361  
 Nishiyama H., Matsumoto M., Arai H., Sakaguchi H. and Itoh K. Silicon and tin-directed oxidative decarboxylation: Regioselective formation of olefins from  $\beta$ -silyl and  $\beta$ -stannyli carboxylic acids, 1599  
 Nishiyama S., Nakamura K., Suzuki Y. and Yamamura S. Synthesis of piperazinomycin, a novel anti-fungal antibiotic, 4481  
 Nishiyama S., Shirai Y., Shigeno H. and Yamamura S. Synthetic study on verrucosidin and its absolute configuration, 723  
 Nishiyama S., Toshima H., Kanai H. and Yamamura S. Total synthesis and the absolute configuration of aurovertin B, 3643  
 Nishiyama T see Nishio T. 5637  
 Nishizawa M., Yamada H. and Hayashi Y. Biomimetic cyclization of amblifuran and analog by using mercury(II) triflate/ $\text{N}_2\text{N}$ -dimethylbenzylamine complex: synthesis of ( $\pm$ )-ambilo-A, 187  
 Nishizawa M., Yamada H. and Hayashi Y. Total synthesis of ( $\pm$ )-baiyunol, 3255  
 Niwa H., Miyachi Y., Okamoto O., Uosaki Y. and Yamada K. Total synthesis of optically active integerimine, a twelve-membered dilactonic pyrrolizidine alkaloid of retronecine type. II. Enantio-selective synthesis of (+)-retronecine, 4605  
 Niwa H., Miyachi Y., Uosaki Y., Kuroda A., Ishiwata H. and Yamada K. Total synthesis of optically active integerimine, a twelve-membered dilactonic pyrrolizidine alkaloid of retronecine type. III. Regioselective elaboration of the unsymmetrical twelve-membered dilactone and total synthesis of (-)-integerimine, 4609  
 Niwa H., Miyachi Y., Uosaki Y. and Yamada K. Total synthesis of optically active integerimine. A twelve-membered dilactonic pyrrolizidine alkaloid of retronecine type. I. Enantio-selective synthesis of the protected (+)-integerinec acid, 4601  
 Noisi G see Calmes M. 4303  
 Nöth H see Huisgen R. 5475  
 Noble D see Davies H.G. 1089  
 Noda I., Horita K., Oikawa Y. and Yonetatsu O. Synthesis of substituted tetrahydrofurans and tetrahydro-pyrans. 2. Stereocontrolled acid-catalyzed cyclizations, 1917  
 Noda T see Wakamatsu T. 6071  
 Node M see Fuji K. 5381  
 Nogami Y see Koga T. 4505  
 Nohira H see Miyashita A. 2127  
 Nokami J., Mandai T., Nishimura A., Takeda T., Nakabayashi S. and Kunieda N. Synthesis of optically active 4-hydroxyalk-2-enenitriles; reaction of optically active 2-( $p$ -chlorophenylsulfinyl)acetonitrile with aldehydes in the presence of piperidine in acetonitrile, 5109  
 Nolte R.J.M see Nolie F.G.M. 243  
 Nonaka T see Fuchigami T. 3869, see Kanemoto S. 3387, see Nozaki K. 2007  
 Norinder U see Sundahl M. 1063  
 Normant J.-F see Tellier F. 3147  
 Normant J. see Auveray P. 5091, 5095, see Knobel P. 5727, 1039, 1043, 4431, 4427, see Mangeney P. 3143, see Marek I. 5499, see Martin S. 1027  
 Novák L see Poppe L. 5769  
 Novi M., Petrillo G. and Sartirana M.L. Arenediazonium tetrafluoroborates as initiators in the polymerisation of haloprene-thioclates. A simple and mild access to poly(arylene sulfide)s, 6129  
 Noyori R see Hayakawa Y. 4195, 4191  
 Nozaki H see Fugami K. 2161, see Kanemoto S. 3387, see Otera J. 2383, 5743, 4501, see Shiragami H. 589  
 Nozaki K see Durrwachter J.R. 1261, see Nakamura K. 3155  
 Nozaki K., Wakamatsu K., Nonaka T., Tückmantel W., Oshima K. and Utimoto K. Transition-metal catalyzed regioselective addition of  $\text{PhMe}_2\text{SiBEt}_3\text{Li}$  and  $\text{Bu}_3\text{SnBEt}_3\text{Li}$  to acetylenic compounds in the presence of methanol, 2007  
 Nozawa K see Masumizu T. 55  
 Nukada T see Ogawa T. 5739  
 Numi T.T see Bailey W.F. 1861, 1865  
 Nuzzillard J.M., Poulin J.C. and Kagan H.B. Synthesis of a protected monodehydro leu-enkephalin and its hydrogenation catalyzed by chiral rhodium complexes, 2993  
 O'Connor B. and Just G. Syntheses of argentillactone 11 and goniothalamin 15, 5201  
 O'Mahony M.J see Baker R. 3059  
 O'Malley G.J see Lakshminathan M.V. 4687  
 O'Shaughnessy B see Kraft G.A. 2691  
 O'Shea D.M see Beckwith A.L.J. 4525  
 Ose S see Fujimori K. 1179, 581, 1617, see Furukawa N. 3899  
 Ore D.A. and Heathcock C.H. Influence of enolate geometry on the stereochemistry of Michael additions of ketone enolates to  $\alpha,\beta$ -unsaturated ketones, 6169  
 Ocampo R see Verne-Mismer J. 5257

- Ochi M see Kotsuki H. 4213  
 Ochiai H see Tamari Y. 955  
 Ochiai M see Tamura N. 3749  
 Oda D see Tamura R. 5759  
 Oda H see Masaki Y. 231  
 Oda M see Aga M. 5653, see Okada K. 4493, 2645, 6213, see Scott L.T. 779  
 Oda Y see Wakamiya T. 2143  
 Odaiwa Y see Kobayashi K. 2045, see
- acetylenic oxy-Cope rearrangement: the synthesis of dl-phoracantholide I, 219  
 Onsaku M. On a preliminary theoretical approach to the investigation of the mercury ( $^{31}\text{P}$ ) photosensitized internal cycloaddition in 1,4-pentadiene and 1,5-hexadiene, 1797  
 Ono M see Kurohita M. 1815
- Onkaram N see Evans S.V. 1419  
 Onori K see Ikeda N. 1175  
 Onote Y see Kashima C. 2131, see Nishio T. 5637, see Sakamoto M. 1335  
 Ontruschka B see Ziegler U. 5825  
 Ono H see Harada S. 6229  
 Ono N.,Kamimura A. and Kaji A.  $\beta$ -Sulfonylnitro-olefin as very negative alkene-equivalents in Bildung und Reaktion von Surinen mit 1,8-Bis(dimethylamino)naphthalin, 167
- Oppolzer W. and Stevenson T. Asymmetric additions of 1-alkenylcopper reagents to chiral enoates: enantioselective synthesis of California red scale pheromone, 1139
- Oppolzer W. and Poli G. Asymmetric induction at C(8) and C(6) of N-enoyl sultams by 1,4-hydride addition/enolate trapping, 4717
- Oppolzer W.,Pedroza R. and Moretti R. Asymmetric synthesis of  $\alpha$ -amino acids from  $\alpha$ -halogenated 10-sulfonamido-isobornyl esters, 831
- Oppolzer W.,Mills R.J. and Réglier M. Efficient asymmetric hydrogenations of camphor-sultam-imide-conjugated alkenes, 183
- Oppolzer W. and Jacobsen E.J. Enantioselective synthesis of (+)- $\alpha$ -skyanthine and (+)-iridomyrmecin by an intramolecular magnesium-ene reaction, 1141
- Oppolzer W.,Moretti R. and Bernardinelli G. Enantioselective synthesis of the alleged structure of norpectatinone, 4713
- Oppolzer W. and Nakao A. Synthesis of ( $\pm$ )-6-protoilludene and ( $\pm$ )-3-epi-6-protoilludene by intramolecular magnesium-ene and ketene/alkene addition reactions, 5471
- Oppolzer W. and Cunningham A.F. Total synthesis of ( $\pm$ )-chokol-A via an intramolecular type-I-magnesium ene reaction, 5467
- Orlek B.S. Stereoselective synthesis of 1,2-diaminocindans: a novel approach to vicinal diamines, 1699
- Oriac-Le Moing A see Delaunay J. 6205
- Orszulik S.T. The action of mercaptoacetic acid on a trialkyl epoxide, 3781
- Ortar G see Cacchi S. 3931, 5541
- Ortiz C see Blagbrough I.S. 1251
- Ortiz M.J see Armesto D. 3293
- Ortiz W see Gerwick W.H. 1979
- Ortuño R.M.,Corbera J. and Font J. Chiral butenolides as dienophiles in Diels-Alder cycloadditions, 1081
- Ortuño R.M.,Alonso D. and Font J. Enantioselective synthesis of (+)-( $S$ )- $\beta$ -angelica lactone from L-tartaric acid, 1079
- Ortuño R.M.,Mercé R. and Font J. Total synthesis of (+)-eldanolide from D-ribonolactone, 2519
- Osaki H see Ohtani B. 2019
- Ohshima K see Fugami K. 2161, see Kanemoto S. 3387, see Nozaki K. 2007, see Tickmantel W. 5617
- Ohshima Y.,Hikino Y. and Hikino H. Structure of cyclohexyl acetate, a sesquiterpenoid of *Valeriana fauriei* 'Hokkai-Kiso' roots, 1829
- Ohshio Y see Shishido K. 1339
- Otake K see Hosomi A. 2881
- Otake N see Sasaki T. 1603
- Ugashikawa K see Takano S. 2405  
 Ogashikawa T see Ozaki S. 3157  
 Ogata K see Kusumoto T. 4197, see Nakagawa M. 6087  
 Ogawa T see Ito Y. 1753  
 Ogawa T.,Sugimoto M.,Kitajima T.,Sadozai K.K. and Nukada T. Total synthesis of a decasaccharide: a typical carbohydrate sequence for the complex type of glycan chains of a glycoprotein, 5739  
 Ogawa Y see Uesato S. 2893  
 Ogibin Y.N see Nikishin G.I. 4215  
 Ogoshi H.,Saita K.,Sakurai K.,Watanabe T.,Toi H.,Aoyama Y. and Okamoto Y. Novel chiral porphyrins with  $C_2$  symmetry, 6365  
 Ogura F see Hu N.X. 6099, see Miyamoto H. 2011  
 Ogura K.,Tsuruda T.,Takahashi K. and Iida H. A versatile reagent for synthesis of  $\alpha$ -hydroxy aldehydes and ketones - methylthiomethyl p-tolyl sulfone -, 3665  
 Ogura K.,Itoh S.,Takahashi K. and Iida H. Photochemical transformation of a dithioacetal-S-oxide into the corresponding aldehyde, 6381  
 Oguri T see Shinoda M. 87  
 Oh D.Y see Kim T.H. 1165  
 Oh Y.-I see McDougal P.G. 139  
 Ohba S see Shizuri Y. 727  
 Ohbayashi A see Nishimura J. 4331  
 Ohfune Y see Konno K. 607, see Sakaitani M. 3753  
 Ohfune Y.,Horikoshi K. and Sakaitani M. An efficient route to 1,3-amino hydroxyl system via electrophilic lactonization of 2-amino-4-pentenoic acid derivatives. Stereoselective synthesis of (-)-bulgecinine, 6079  
 Ohizumi Y see Kobayashi J. 2113, 5755, 1191, see Nakamura H. 4319  
 Ohkata K see Akiba K. 5221  
 Ohkata K.,Okada K.,Maruyama K. and Akiba K. Base induced skeletal rearrangements via spirocyclic ipso intermediates in dibenzodithiocinon salts, 3257  
 Ohki H see Wada M. 4771  
 Ohkuma T see Suzuki K. 373  
 Ohmori M.,Takano Y.,Yamada S. and Takayama H. Novel and stereoselective synthesis of 1 $\alpha$ -hydroxylated vitamin D metabolites. Stereocontrolled synthesis of (24R)-1 $\alpha$ ,24,25-trihydroxycholesterol, 71  
 Ohnaka Y see Cho H. 6377  
 Ohno A see Nakamura K. 3155, see Ushio K. 2657  
 Ohno M see Kittaka A. 3631, see Otsuka M. 3639, see Sugano Y. 3635  
 Ohno M.,Morii K. and Eguchi S. Site selective cycloaddition reaction of 1-methoxy-1-trimethyl-silyloxy-1,3,5-hexatriene with dienophile, 3381  
 Ohno T see Miki S. 3669  
 Ohnuma T.,Hata N.,Miyachi N.,Wakamatsu T. and Ban Y. A synthesis of novel nine-membered diones through a cyclic

- Otera J see Mandai T. 603  
 Otera J., Yano T., Hidemoto Y. and Mozaki H. A novel template effect of distannoxane in macro-lactonization of  $\omega$ -hydroxy carboxylic acids, 4501  
 Otera J. and Mozaki H. Distannoxane-catalyzed cleavage of acetals and silyl ethers, 5743  
 Otera J., Yano T., Kawabata A. and Mozaki H. Novel distannoxane-catalyzed transesterification and a new entry to  $\alpha,\beta$ -unsaturated carboxylic acids, 2383  
 Otoski R.M see Wilcox C.S. 1011  
 Otsubo K., Inanaga J. and Yamaguchi M. Sm<sub>2</sub>-Induced reductive cross-coupling of carbonyl compounds with  $\alpha,\beta$ -unsaturated esters, 5763  
 Otsubo T see Hu N.X. 6099, see Miyamoto H. 2011  
 Otsuji Y see Ichinose N. 5619  
 Otsuka M see Kitakata A. 3631, see Sugano Y. 3635  
 Otsuka M., Kittaka A., Ohno M., Suzuki T., Kuwahara J., Sugura Y. and Umezawa H. Synthetic study towards man-designed bleomycins. Synthesis of a DNA cleaving molecule based on bleomycin, 3639  
 Otsuka T see Tezuka T. 3627  
 Ottenheijm H.C.J. see Plate R. 3755  
 Otter B.A see Bhattacharya B.K. 815  
 Overman L.E., Okazaki M.E. and Mishra P. tert-Butylidiphenylsilylamines: a useful protecting group for primary amines, 4391  
 Ozanada H see Ueki M. 4181  
 Ozaki K see Fujii M. 935, 3365  
 Ozaki O see Hatanaka N. 3169  
 Ozaki S., Matanabe Y., Ogasawara T., Kondo Y., Shiozaki N., Nishii H. and Matsuki T. Total synthesis of optically active myo-inositol 1,4,5-tris(phosphate), 3157  
 Ozbalik N see Balavoine G. 2849
- Pacofsky G.J see Burke S.D. 3345  
 Padwa A., Carter S.P., Chiaccio U. and Kline D.N. Dipolar cyclo-addition reaction of (phenylsulfonyl)propadiene with nitrones and alkylation studies of the cycloadducts, 2683  
 Padwa A. and Wannamaker M.W. Nucleophilic substitution reactions of 1-sulfonyl substituted cyclopropenes with alkyl lithium reagents, 5817  
 Padwa A. and Wannamaker M.W. Significance of the anomeric effect on the configurational stability of cyclopropyl carbanions, 2555  
 Page M.I see Agathocleous D. 1631  
 Page P.C.B. and Rosenthal S. A convenient one-pot synthesis of  $\alpha$ -haloacylsilanes, 5421  
 Page P.C.B. and Rosenthal S. A short and general synthesis of  $\alpha$ -ketooacylates, 2527  
 Pagni R.M see Bothe R. 2207  
 Pagnoni U.M see Bellesia F. 381  
 Pahde C see Kauffmann T. 5355, 5351  
 Paik Y.H see Dowd P. 2813  
 Pais M see Monneret C. 575  
 Paisley S.D see Goering H.L. 4399  
 Pak C.S see Youn I.K. 2409  
 Pakrashi S.C see Bhattacharjya A. 1215  
 Palazón J.M. see Anorbe B. 4991  
 Palazón J.M., Anorbe B. and Martín V.S. General method to transform chiral 2,3-epoxyalcohols into erythro or threo 1,2-epoxy-alcohols with total stereochemical control, 4987  
 Palazzi C., Colombo L. and Gennari C. Improved enantioselective synthesis of anti  $\alpha$ -methyl- $\beta$ -hydroxyesters through TiCl<sub>4</sub>-PPh<sub>3</sub> mediated aldol condensation, 1735  
 Palenzuela J.A. see González A. 2771  
 Pallenberg A.J. and White J.D. The synthesis and absolute configuration of (+)-leptospaerin, 5591  
 Palni U.T see Waring P. 735  
 Palomo C see Alzpirua J.M. 5666, 4359  
 Pan S.-H. see Weinstock L.M. 3845  
 Pandey G., Krishna A. and Rao J.M. Single electron transfer initiated photocyclization of substituted cinnamic acids to corresponding coumarins, 4075  
 Pandey R.K. see Smith K.M. 2717  
 Panunzio M see Andreoli P. 1695  
 Papadopoulos K., Enders D., Rendebach B.E.M., Appel R. and Knodt F. Asymmetric Michael additions via SAMP-/RAMP-hydrazones anti-diastereos- and enantioselective synthesis of 3,4-disubstituted 5-oxo-alkanoates, 3491  
 Papageorgiou C. and Tamm C. Stereochemical control of the glycosylation reaction via 3,5-Di-O-(*p*-tolyl)-2-O-(*p*-tolylsulfonyl)-8-D-methyl ribofuranoside, 555  
 Papageorgiou V.P. see Mellidis A.S. 5881  
 Paquette L.A. see McLaughlin M.L. 5595  
 Paquette L.A. and Trova M.P. An optically active cyclo-octatetraene incapable of racemization, 1895  
 Paquette L.A., Hoppe M., Johnston L.J. and Ingold K.U. Configurational characterization of the 1-(trimethylsilyl)cyclopropyl radical, 411  
 Paquette L.A., Künzer H. and Waykole L. Kinetic deuterium isotope effects operative during triplet sensitized [2+2] photocyclization of syn- and anti-sesquenorbornatrienes, 5803  
 Paquette L.A. and Ham W.H. Total synthesis of africanol, 2341  
 Paquette L.A., McKinney J.A., McLaughlin M.L. and Rheingold A.L. Transition metal complexation of optically pure annulated cyclopentadienes. Face selectivity, three-dimensional structural features, and utilization for asymmetric hydrogenation, 5599  
 Paradisi M.P., Zecchini G.P. and Torrini I. Selective acylations of aminophenols and hydroxylalkylphenols with 1-acetyl- $\gamma$ -triazolo[4,5-b]pyridine, 5029  
 Pardasani P see Pelter A. 749  
 Pardasani R see Pelter A. 5033  
 Parker K.A., Spero D.M. and Inman K.C. Aryl radical-initiated cyclizations: effect of aryl substituents on ring-size, 2833  
 Parker K.A. and Iqbal T. N,N-dimethylaniline as a solvent for intramolecular Diels-Alder reactions. Improved yields and changes in stereoisomer ratios, 6291  
 Parker K.A. and Breault G.A. Strategies and intermediates for fredericamycin A synthesis: a 3-substituted 9-alkoxy cyclopenta(g)isoquinoline-1,8(2H)-dione, 3835  
 Parkes K.E.B., Pattenden G., Baranyai M., Molnar P., Szabolcs J. and Toth G. Novel carotenoid 3,6-epoxides from red paprika, *Capsicum annuum*, 2535  
 Parkes K.E.B. and Pattenden G. Total synthesis of (+)-allamcin. An approach to antileukaemic iridoid lactones, 1305  
 Parvez M see Joyce R.P. 4885  
 Pascal R.A., Jr., Spergal J. and Van Engen D. Synthesis and X-ray crystallographic characterization of a (1,3,5)cyclophane with three amide NH groups surrounding a central cavity. A neutral host for anion complexation, 4099  
 Pasto D.J. Revaluation of orbital interactions in substituted radicals. Transfer of radical properties to the substituent atom, 2941  
 Patel M see Boger D.L. 683  
 Patel V.F., Pattenden G. and Russell J.J. Synthesis of benzofurans, indoles and benzopyrans via oxidative free radical cyclisations using cobalt salen complexes, 2303  
 Paterson I., Lister M.A. and McClure C.K. Enantioselective aldol condensations: the use of ketone boron enolates with chiral ligands attached to boron, 4787  
 Patigny D see Laronje J.Y. 489  
 Patil G see Mai K. 2203  
 Patil P.A. see Narasimhan N.S. 5133  
 Patricia J.J. see Bailey W.F. 1861, 1865  
 Pattenden G see Bhandal H. 2299, see Kaye A.D. 2033, see Ladlow M. 3279, see Parkes K.E.B. 2535, 1305, see Patel V.F. 2303  
 Pattenden G., Pegg N. and Smith A.G. A new synthesis of pulvinic acids, 403  
 Pattenden G. and Robertson G.M. Free radical reactions in synthesis. Total synthesis of isoamijiol, 399  
 Patterson R.T. see Gupta Y.N. 295  
 Patzelt H see Viret J. 5865  
 Paul V.J. see Shin J. 5189  
 Paulsen H., Stiem M. and Unger F.M. Synthese eines 3-desoxy-D-manno-2-octulosonsäure (KDO)-haltigen Tetrasaccharides und dessen Strukturvergleich mit einem Abbauprodukt aus Bakterien-Lipopolsacchariden, 1135  
 Paulus E.F. see Khandelwal Y. 6249  
 Pauly M see Rigo B. 347  
 Pavlatos D see Cameron D.W. 2417  
 Payard M see Bellan J. 1145  
 Pédoüsaout M see Bram G. 4171  
 Pérez S see Arjona O. 5505  
 Pérez-Ossorio R see Alcaide B. 1627, 5129, 1381, 4217  
 Peach J.M. see Dho J.C. 3203  
 Pearson A.J. and Bansal H.S. Controlled functionalization of cyclohepta-1,3-diene: conformational analysis of cycloheptenones and derived cycloheptadienolate anions, 287  
 Pearson A.J. and Bansal H.S. Controlled functionalization of cyclohepta-1,3-diene: an approach to the (+)-Prelog-Djerassi lactic acid, 283  
 Pearson A.J., Holden M.S. and Simpson R.D. Generation and reactions of carbanions in the presence of a neighboring  $n^1$ -allyl-Mo(CO)<sub>2</sub>Cp moiety; a novel rearrangement suggesting participation of Mo in carbanion stabilization, 4121  
 Pearson A.J. and Ray T. Stereocontrolled functionalization of cycloheptadiene; an approach to tylosin and carbomycin B from a common intermediate, 3111  
 Pearson W.H., Celebuski J.E., Poon Y.-F., Dixon B.R. and Glans J.H. Intramolecular azide-diene cycloadditions. An approach to fused bicyclic 3-pyrrolines based on a

- one-pot nitrene-diene cyclo-addition equivalent, 6301
- Pedrini P see Dondoni A. 3915, 5269, 3796
- Pedroso R see Oppolzer W. 831
- Pedroso E., Grandas A., de las Heras X., Eritja R. and Giralt E. Diketopiperazine formation in solid phase peptide synthesis using p-alkoxybenzyl ester resins and FMOC-amino acids, 743
- Peel M.R. and Johnson C.R. Tin-directed Nazarov cyclizations: a versatile route to cyclo-pentenoids, 5947
- Pegg N see Patten G. 403
- Pelman B see Bergman J. 1939
- Pelczar I see Füllöp F. 2517
- Pelinsky L see Brocard J. 6325
- Pellerin B., Denis J.-M., Perrocheau J. and Carrie R. Unhindered phosphaalkenes and phosphaalkynes in stable condition from a vacuum multistep sequence, 5723
- Pellissier H., Meou A. and Gil G. Reactions of isocyanides. II - addition to acetals, 2979
- Pellissier H., Meou A. and Gil G. Reactions of isocyanides. III. Addition to acetals; 3505
- Pellon P., Yeung Lam Ko Y.Y.C., Coquer P., Hamelin J. and Carré R. Diels-Alder reaction with phosphaalkenes. Synthesis of functionalized  $\lambda^3$ -phosphabenzenes, 4299
- Pellon P. and Hamelin J. New access to functionalized dichlorophosphines: synthesis of two coordinated phosphorus heterocycles, 5611
- Pelter A. and Colclough M.E. Reactions of trialkylalkynylborates with 2-alkyl-1,3-dioxolan-2-ylidium fluorosubphonates. Versatile direct route to Z- $\alpha\beta$ -unsaturated ketones, specifically portected 1,3-diketones and other ketonic species, 1935
- Pelter A., Budgen R., Pardasani R. and Wilson J. The dimethylboron group in organic synthesis, IX. A most unusual reaction: electrophilic attack on sulphur in  $\alpha$ -thiocarbamions, 5033
- Pelter A. and Keating A. The dimethylboron group in organic synthesis, X. Studies on the thermal isomerisation of diaryl-3-hexylboranes, 5037
- Pelter A., Al-Bayati R. and Pardasani P. The synthesis of epoxy-piperolides and piperolides, 749
- Penadés S see Alonso-López M. 3551
- Pennelle J see Van Hoecke M. 4569
- Penn G see Eichberger G. 2843
- Penn J.H. and Smith R.S.  $\pi$ -Acceptor induced thermal reactions: bond cleavage reactions, 3475
- Pennetierre P see Houbrechts Y. 705, see Laszlo P. 3153
- Pensar G see Näsmann J.H. 1391
- Pepino R see Bosio R. 4643
- Pereira D.E. and Leonard N.J. A masked [ $\pi\theta + \pi\gamma$ ] cycloaddition reactions involving the 1,3,4,6-tetraazapentalene ring system, 4129
- Perez J.J. see DeShong P. 2091
- Perez-Ossorio R see Arresto D. 3293
- Periasamy M see Satyanarayana N. 6253
- Perich J.W. see Johns R.B. 4791
- Perich J.W., Valerio R.M. and Johns R.B. Solid-phase synthesis of an O-phosphoryl-containing peptide using phenyl phosphorotriester protection, 1377
- Perich J.W., Alewood P.F. and Johns R.B. Solution-phase synthesis of an O-phosphoryl-containing peptide using phenyl phosphorotriester protection, 1373
- Perichon J see d'Incan E. 4175, see Meyer G. 3497, see Sibille S. 3129
- Perri M.G see Siuzarchyk W.A. 2789
- Perrin P., Aubert F., Leliouche J.P. and Beaucourt J.P. Synthese totale du parfluoroacétamido phényle-20 LTA<sub>4</sub> (ester méthylique), 6193
- Perrini G see Corsaro A. 1517
- Perrocheau J see Pellerin B. 5723
- Perrone E see Alpegiani M. 3041, see Battistini C. 513
- Pete J.-P see Henin F. 6339, see Mortezaei R. 2997, see Piva O. 3001, see Pouyet A.-L. 2975
- Pete J.P. see Cossy J. 2369, 573
- Peter-Niedermann H see Jacob D. 5703
- Peters Rit A.W.P.G. see van Gent J. 1059
- Petit F see Karim A. 345
- Petrier C., Dupuy C. and Luche J.L. Conjugate additions to  $\alpha,\beta$ -unsaturated carbonyl compounds in aqueous media, 3149
- Petrignani J.-F see Alper H. 5449, see Arzoumanian H. 5979
- Petrilli G see Novi M. 6129
- Petti M.A., Sheppard T.J. and Dougherty D.A. Design and synthesis of a new class of hydrophobic binding sites, 807
- Pezzech M., Brunetiere A.P. and Lallemand J.Y. A new route to perhydro- and tetrahydro-furo-2,3b-furans via radical cyclisation, 3715
- Pezzetta J.O. see Schiehser G.A. 5587
- Pezzuto J.M. see Choi Y.-H. 5795
- Pfau M see Volpe T. 2853
- Pflaum S see Märkl G. 4415
- Pfeiffer W see Sugimoto T. 4179
- Phillion D.P. and Andrew S.S. Synthesis and reactivity of diethyl phosphonomethyltriflate, 1477
- Pianetti P., Rollin P. and Pougy J.R. Optically active propargylic alcohols from D-xylose useful precursors for LTB<sub>4</sub> synthesis, 5853
- Piccolrovazzi N see De Lucchi O. 4347
- Picconi G see Baiocchi L. 5255
- Pichon C see Barton D.H.R. 3619
- Pierce J.D. see Bunce R.A. 5583
- Pierce E. and Gavai A.V. Convenient ( $Z$ )-ethylidenecyclopentane annulation sequences. Total synthesis of (+)-oplopanone, ( $\pm$ )-8-epi-oplopanone, and ( $\pm$ )-anhydro-oplopanone, 313
- Pietrusiewicz K.M. and Monkiewicz J. Anionic activation of stabilized ylides. A highly Z-stereo-selective Wittig reaction of (3-ethoxycarbonyl-2-oxopropylidene)-triphenylphosphorane with aliphatic aldehydes, 739
- Pikul S see Jurczak J. 1711
- Pinetti A see Bellesia F. 381
- Pinhey J.T. see Moloney M.G. 5025
- Pinto A.C. see Ferraz H.M.C. 811
- Pirie D.K., Welch W.M., Weeks P.D. and Volkmann R.A. Synthetic and mechanistic studies involving the condensation of penicillin Grignards and boron trifluoride activated oxime ethers, 1549
- Pirrung M.C. and Webster N.J.G. Cyclooctenone photocyclo-additions, 3983
- Pirrung M.C. and Thomson S.A. Intramolecular [2+2] photocyclo-addition of enone-acetals, 2703
- Piscopo A.D. see Burke S.D. 3345
- Piva O see Mortezaei R. 2997
- Piva O., Henin F., Muzart J. and Pete J.-P. Enantioselective photo-deconjugation of  $\alpha,\beta$ -unsaturated esters: effect of the nature of the chiral agent, 3001
- Pivnitsky K.K. see Danilova G.A. 2489
- Plaquevent J.-C. see Duhamel L. 4975
- Plate R. and Ottenheijm H.C.J. Synthesis of 2-(dimethylallyl)-N-hydroxytryptophans from indole, 3755
- Platz M.S. see Torres M.J. 791
- Plumet J see Alcalde B. 5129, 4217, 1627, 1381, see Arjona O. 5505
- Pöhl H see Kraus W. 1002
- Poh B.-L. A simple method of obtaining  $\sigma^*$  values of alkyl substituents, 263
- Poiner A see Hambley T.W. 3281
- Poli G see Oppolzer W. 4717
- Poliniaszek R.P. see Evans D.A. 5683
- Polson G. and Dittmer D.C. Functional group modification via organotellurium chemistry. Synthesis of allyl alcohols from chloromethyloxiranes, 5579
- Ponaras A.A. and Mead M.Y. Synthesis of diisophenol ethers by means of alkoxytrimethylsilanes, 4953
- Ponglux D see Sakai S. 4585
- Pomipon M.M., Yue B.Z., Bugianesi R.L., Brooker D.R., Chang M.N. and Shen T.Y. Total synthesis of kadsurenone and its analogs, 309
- Pons J.M. and Santelli M. Reductive coupling of  $\alpha,\beta$  unsaturated ketones III (+)-pulegone: an example of uppoling, 4153
- Poon Y.-F. see Pearson W.H. 6301
- Popp L., Novák L., Kolonits P., Bata A. and Szántay C. A convenient synthetic route to (+)-faranal; the trail pheromone of Pharaoh's ant, 5769
- Pouyet A.-L., Feigenbaum A. and Pete J.-P. Synthese d'aryl-3 cyclohexanediones par photolysse des acétoxy-2 cyclohexene-2 ones, 2975
- Pornet J., Rayadh A. and Miginiac L. Reaction de cycloaddition entre l'ethoxy-1 trimethylsilyl-3 propyne-1 et les acetals: synthèse de carbothoxy-2 trimethylsilanes allyliques, diéniques ou enyniques diversément substitués, 5479
- Porter H.P. see Agarwal S.K. 4253
- Portoghesi P.S. see Lipkowski A.W. 4257
- Posner G.H. and Wetlauffer D.C. Asymmetric Diels-Alder cyclo-additions using chiral alkyl vinyl ethers and a dienyl sulfone, 667
- Posner G.H. and Asirvatham E. Sequential Michael-Michael-Michael Ring Closure reactions for high-yield, one-pot, 4-component coupling, 663
- Posner G.H., Lu S.-B. and Asirvatham E. Sequential Michael-Michael-Michael-Ring Closure reactions for 3-different-component, one-pot, 2+2+ construction of acyl-cyclohexenes and an acylcyclohexanol, 659
- Potenza D see Moskal J. 2173
- Potier M. see Banoub J. 4145
- Pougy J.R. see Pianetti P. 5853
- Poulin J.C. see Nuzillard J.M. 2993
- Powell J.R. see Krapcho A.P. 3713
- Powers D see Shah M. 5437
- Prabhakaran P.C., Woo N.-T., Yorgey P. and Gould S.J. Studies on nitrogen metabolism using  $^{13}\text{C}$  NMR spectroscopy. 5. Metabolism of L-arginine in the biosynthesis of blasticidin S, 3815
- Prager R see Chiefari J. 6119

- Prandi J., Kagan H.B. and Mimoun H.** Epoxidation of isolated double bonds with 30% hydrogen peroxide catalyzed by pertungstate salts, 2617
- Prat D. and Lett R.** Epoxidations with 30% hydrogen peroxide catalyzed by tungstic acid in buffered media, 707
- Prat D., Delpech B. and Lett R.** Stereoselective epoxidation of allylic and homoallylic alcohols with 30% hydrogen peroxide catalyzed by tungstic acid in buffered media, 711
- Prestegard J.H** see Cioffi E.A. 415
- Price J.D. and Johnson R.P.** Small-ring cyclic cumulenes: synthesis of a kinetically stable eight membered ring allene, 4679
- Prinzbach H** see Beck A. 485, see Fischer G. 1273, 1269, see Rückert C. 1565, see Sedelmeier L. 1277
- Procter G** see Challenger S. 391
- Proctor G.R** see El-Hossini M.S. 3783
- Proksa B., Urini D., Grossmann E. and Votický Z.** Vincarubine, a novel bisindole alkaloid from *Vinca minor* L., 5413
- Proudfoot J.R** see Back T.G. 2187
- Proudfoot J.R., Catalán C.A.N., Djerassi C., Sica D. and Sodano G.** Biosynthetic studies of marine lipids-VI. Evidence for an unprecedented biomethylation pathway in the biosynthesis of the cyclopropyl-containing marine sterol, petrosterol, 423
- Prout K** see Dho J.C. 3203
- Przybyla C** see Thottathil J.K. 1533
- Puchot A** see Agami C. 1501
- Puckae J.S** see Forsyth D.A. 3569
- Puglisi J.M** see Tufariello J.J. 1489, 1265
- Puk E** see Maquestiau A. 4023
- Pulay A. and Fry A.** Isotope effects and mechanism in the base-promoted dehydrochlorination of 1,1-dichloro-2,2-diarylethanones-1-<sup>13</sup>C, 5055
- Pulido F.J** see Alberola A. 2027
- Pullin A.D.E** see Brown R.F.C. 1075
- Purington S.T., Lazaridis N.V. and Baumgardner C.L.** Preparation of  $\alpha$ -fluoroaldehydes and  $\alpha$ -fluoro-ketones using dilute fluorine, 2715
- Pyne S.G.** The effect of cations on the asymmetric conjugate addition of organocupper reagents to chiral vinyl sulfoximines, 1691
- Queguiner G** see Tintillier P. 2357
- Quin L.D** see Crumbliss A.L. 889
- Quintard J.-P** see Verlhac J.-B. 2361
- Rach N.L** see Shah M. 5437
- Racha R** see Villenin D. 1789
- Radics L** see Dornberger K. 559
- Raecker S** see Kauffmann T. 5351
- Raharimanana C** see Silwa H. 349
- Rahn J** see Jurczak J. 853
- Rajagopalan K** see Gopal D. 5883, see Ravikumar V.T. 1640
- Rajamanan T. and Balasubramanian K.K.** Regioselective reductive elimination of aryloxymethyl-ethynylcarbinols - syntheses of aryloxymethylallenes, 3777
- Rajput S.I** see Sonawane H.R. 6125
- Rakotonirina R** see Kpegba K. 1505
- Rama Rao A.V., Yadav J.S. and Srivastava Rao C.** A stereo-selective synthesis of the C-15 to C-20 segment of rifamycin-S, 3297
- Rama Rao A.V. and Reddy E.R.** Stereo-selective synthesis of hydroxy octadecatrienoic acids. The self defensive substances in rice plant, 2279
- Ramamoorthy T.P** see Rodríguez-Hahn L. 5459
- Rambaud M** see Graff M. 1577
- Randayal F** see Jacobs H. 1453
- Randazzo G** see Itaya T. 6349
- Ranganathan D. and Rathi R.** Imidazole synthesis on a solid support, 2491
- Ranirishcheno H** see Jacquier R. 4735
- Rao A.V.R., Yadav J.S., Naik A.M. and Chaudhary A.G.** Synthesis of sesbanidine: an approach for the synthesis of ring C, 993
- Rao G.V** see Kirby G.W. 5539
- Rao J.M** see Pandey G. 4075
- Raphael R.A** see Hill M.L. 1293
- Rathi R** see Ranganathan D. 2491
- Rathore R., Vankar P.S. and Chandrasekharan S.** Substituent directed oxidative cyclization with cetyltrimethylammonium permanganate: a general approach to the synthesis of Y- and 6-lactones, 4079
- Raucher S. and Gustavson L.M.** [3,3]-Sigmatropic rearrangement of silyl ketene acetals of methyl  $\alpha$ -(allyloxy)acetates, 1557
- Rauhut F.T. and Zank G.A.** Mechanistic studies on the thiation of carbonyls by Lawesson's reagent: the role of a 3-coordinate phosphorus(V) species, 3445
- Rault S** see Dallemande P. 2607
- Rav-Acha C** see Choshen E. 5989
- Ravenscroft P., Newton R.F., Scopes D.I.C. and Williamson C.** A new synthesis of ( $\pm$ )-carbocyclic 2'-uridines, 747
- Ravichandran K** see Lakshminikantham M.V. 4687
- Ravikumar V.T., Rajagopalan K. and Swaminathan S.** Erratum, 1640
- Ray T** see Pearson A.J. 3111
- Rayadh A** see Pernet J. 5479
- Rayner C.M** see Bulman Page P.C. 3535
- Rägliger W** see Oppolzer W. 183
- Reagan J** see Schreiber S.L. 2945
- Reddy D.R** see Gu Q.-M. 5203
- Reddy E.R** see Rama Rao A.V. 2279
- Reddy V.P. and Jamis E.D.** A Dugd structure for [8]-prismane, 3771
- Rees L** see Aitken D.J. 3417
- Reese C.B** see Devine K.G. 5529
- Reese C.B., Serafinowska H.T. and Zappa G.** An acetal group suitable for the protection of 2'-hydroxy functions in rapid oligoribonucleotide synthesis, 2291
- Reetz M.T., Kunisch F. and Heitmann P.** Chiral Lewis acids for enantioselective C-C bond formation, 4721
- Reetz M.T., Kükenhöher T. and Weinig P.** Enantioselective addition of chirally modified methyltitanium reagents to aromatic aldehydes, 5711
- Regberg T** see Garegg P.J. 2665, 4051, 4055
- Regitz M** see Keller H. 1903
- Reinhold D.F** see Weinstock L.M. 3845
- Reinhoudt D.N** see Dijkstra P.J. 3183
- Reiser O** see Stöbbe M. 2353
- Reisan D** see Braverman S. 1297
- Remiszewski S.W., Yang J. and Weinreb S.M.** Enantioselective N-sulfinyl dienophile Diels-Alder cycloadditions, 1853
- Rendebach B.E.M** see Papadopoulos K. 3491
- Renoux A** see Berrier C. 4565
- Renoux B** see Gesson J.-P. 4461
- Rentzea M., Sausse T. and Staab H.A.** Proximity effects in the mass spectra of crowded bis(dimethylamino)arenes, intramolecular cyclization of 'proton sponges' under electron impact, 5715
- Reshetnyak M.V** see Fedoreyev S.A. 3177
- Revell M** see Navech J. 2863
- Revial G** see Volpe T. 2853
- Reynet A** see Labidalle S. 2861
- Reynolds W.F** see Jacobs H. 1453
- Reznikov V.A. and Volodarsky I.B.** Enaminothiones of imidazolidinedine nitroxides, a new route to acetylenic compounds of 3-imidazoline, 1625
- Rheingold A.L** see Paquette L.A. 5599
- Ricci A** see Camici L. 5155
- Ricci A., Degli Innocenti A., Ancillotti M., Seconi G. and Dembich P.** Salà Pummerer rearrangement in highly sterically hindered organosilicon compounds: a new route to bis(trimethylsilyl)ketone, 5985
- Rich D.H** see Kawai M. 1877
- Richards D.J** see Bentley T.W. 5261
- Richards M.K** see Bu'Lock J.D. 2917
- Richardson K.A** see Lee T.V. 5021
- Richter J** see Seitz G. 2747
- Richter W** see Hartke K. 2743
- Rickard C.E.F** see Karuso P. 2177
- Rico I** see Escoula B. 1499
- Rico M** see Alcaina B. 1381
- Riehl K** see Opitz G. 167
- Rigby J.H., Wilson J.Z. and Sananayake C.** Intramolecular Lewis acid catalyzed heterocyclo-addition reactions. Cyclization of ketone heterodienophiles in the dihydrotropane series, 3329
- Rigo B., Lespagnol C. and Pauly M.** Bis(trimethylsilyl) amide as nitrile precursor, 347
- Rihs G** see Beck A. 485, see Fischer G. 1273
- Rimmer G** see Opitz G. 167
- Riondel A., Caubère P., Senet J.-P. and Lecolier S.** Chemistry of  $\alpha$ -chlorooethyl carbonates and carbamates nucleophilic substitution, 6067
- Ripmeester J.A** see Buchanan G.W. 2339
- Ripoll I** see de March P. 3673
- Ripoll J.-L** see Vallée Y. 4313
- Riss B.P. and Muckensturm B.** Total synthesis of ( $\pm$ )-bisabolangelone, 4979
- Ritter K** see Hanack M. 3357
- Riva R** see Guanti G. 4639
- Rivas-Enterria J** see Cahiez G. 4441
- Rivero R.A** see Smith A.B. 5813
- Rivière H** see Balavoine G. 2849
- Robbe M** see Dallemande P. 2607
- Robert A** see Khamliche L. 5491, see Legrel P. 5609
- Robert M** see Kaufmann T. 5351
- Roberts B.W** see Baar M.R. 2083
- Roberts J.C** see Abiko A. 4537
- Roberts S.M** see Davies H.G. 1093, 1089, see Kaye A.D. 2033
- Robertson G.W** see Pattenden G. 399
- Billard R. and Ingold K.U.** Total synthesis of 1-hydro- $\alpha$ -tocopherol: a sulfur-containing analogue of vitamin E, 2817
- Robin J.-P** see Landais Y. 1785, see Taafrouit M. 1781
- Robin J.-P** see Landais Y. 5377
- Robin J.P., Davoust D. and Taafrouit M.** Les steganolides B et C, nouveaux lignanes analogues de l'épisteganacine, isolés à partir de *Steganotaenia araliacea* Hochst. - Corrélation  $^{13}\text{C}$  -  $^1\text{H}$  de la steganacine, en RMN bidimensionnelle, 2871
- Robins D.J** see Kirby G.W. 5539
- Robinson J.A** see Spavold Z. 3299
- Robinson J.E** see Blade R.J. 3209
- Robinson M.J.T** see Kenny P.W. 6277

- Roche E.G** see Moloney M.G. 5025  
**Rockenbauer A.**, Györ M. and Tüdös F.  
 Spin trapping reactions with nitric oxides IV. Reactions with olefins, 3425  
**Rockenbauer A., Györ M. and Tüdös F.**  
 Spin trapping reactions with nitroxides, 3703  
**Rockenbauer A., Györ M. and Tüdös F.**  
 Spin trapping reactions with nitric oxides. III. Alkoxyalkynyl-nitroxides and new nitrogen centered radicals, 3421  
**Rodewald H** see Rücker C. 1565  
**Rodríguez M.A** see Barluenga J. 3303  
**Rodríguez M.S** see Freire R. 383  
**Rodríguez-Campos I.M** see Alcaide B. 4217  
**Rodríguez-Hahn L.**, Esquivel B., Sánchez C., Cárdenas J., Estebanes L., Soriano-García M., Toscano R. and Ramamoorthy T.P. New highly oxidized diterpene quinones from *Salvia fruticulosa* (Labiatae), 5459  
**Rodríguez-López J** see Alcaide B. 5129  
**Rodríguez A** see Buchanañ G.W. 2239  
**Rodríguez de Lera A** see Boente J.M. 5535  
**Rodríguez J.**, Brun P. and Waegell B. Synthesis of substituted iron carbonyl conjugated dienyl complexes from 4-vinylcyclohexenes under kinetic or thermodynamic control, 835  
**Rodríguez-Campos I.M** see Alcaide B. 1381  
**Rodwell P.W** see Cornelisse J. 5003  
**Roeijmans H.J** see van Eijk G.W. 2533  
**Noekens B** see De Lombaert S. 5099  
**Roldano C** see Mestdagh H. 33  
**Rollin P** see Pianetti P. 5853  
**Rollin P.** One-step stereospecific conversion of alcohols into dithiocarbamates: a smooth pathway for the introduction of a sulphur functionality, 4169  
**Rollin Y** see Meyer G. 3497  
**Romano S** see Armeto D. 3293  
**Ronald R.C. and Lillie T.S.**  
 Solvolytic hydroperoxide rearrangements III. Stereo-selective rearrangements of methylated cyclopropyl carbinols, 5787  
**Rosenbaum D** see Duddeck H. 473  
**Rosenthal S** see Bulman Page P.C. 1947, see Page P.C.B. 2527, 5421  
**Ross B.S. and Archer S.** Synthesis of 5-hydroxymethyl-11-methyl-6H-pyridine[4,3-b]carbazole and 5-formyl-11-methyl-6H-pyrido[4,3-b]carbazole (17-oxoellipticine), 5343  
**Rossi M** see Bortolini O. 6257  
**Rossi R** see Andreini B.P. 5533, see Carpita A. 4351  
**Rossi R. and Carpita A.** Diastereoselective synthesis of (E)-alkenes and (E)- $\omega$ -dienes starting from diastereoisomeric mixtures of 1-bromo-1-alkenes: new syntheses of monounsaturated or bridged ring-ketal naturally occurring substances, 2529  
**Roth G.A** see Bryson T.A. 3689, 3685  
**Rothenberger S.D** see Marshall J.A. 4845  
**Rottinghaus G.E** see Corley D.G. 427, 4133  
**Rouessac F** see Maigret C. 2603  
**Rouseff J** see Gedye R. 279  
**Roush W.R. and Michaelides M.R.**  
 Studies on the total synthesis of sebanimide: a highly diastereoselective synthesis of the ab ring system, 3353  
**Roush W.R. and Straub J.A.** Total hexadienones: convenient new mono-nitrating agents for aromatic compounds, 27  
**Routh F.L** see Slusarchyk W.A. 2789  
**Rowley M** see Fleming I. 5417  
**Roy M** see Gupta B.D. 5773  
**Roy P.J** see Hanessian S. 2949  
**Roy S** see Gupta B.D. 4905  
**Royer J** see Bonin M. 1569  
**Rücker C.**, Prinzbach H., Irrgangtinger H., Jahn R. and Rodewald H. (Z)-3,7-Bisphenylsulfonyl-octabisisvalene improved synthesis and X-ray structure analysis, 1565  
**Rudisill D.E** see Williams G.M. 3465  
**Rueff M.** and Zenk M.H. Adenosyl-L-methionine: (S)-7,8,13,14-tetrahydroberberine-cis-N-methyltransferase, a branch point enzyme in the bio-synthesis of benzophenanthridine and protopine alkaloids, 5603  
**Ruel R** see Lavallée P. 679  
**Runge A. and Sander W.** 6-Bromo-6-(trimethylstannyl)bicyclo[3.1.0]-hexane as a thermal precursor of 1,2-cyclohexadiene, 5835  
**Runyan M.T** see Weller D.D. 4829  
**Rupp R.H** see Nadkarni S.R. 5265  
**Rupp C. and Dixneuf P.H.** Synthesis of enol esters from terminal alkynes catalyzed by ruthenium complexes, 6323  
**Rusek G** see Abramovitch R.A. 3705  
**Russell G.A.** and Ngowiwatchai P. Free radical substitution reactions of phenylacetylene derivatives by an addition-elimination mechanism, 3479  
**Russell J.J** see Bhandal H. 2299, see Patel V.F. 2303  
**Russell R.A** see Becker A.M. 3431  
**Ruzziconi R** see Baciocchi E. 2763  
**Rybář A.D., Šakodinská I.K., Dvorský S.N., Eliseev A.V., Yatsimirský A.K., Kuz'mina L.G. and Struchkov Yu.T.** An approach to isoindole skeleton via ortho palladation, 2169  
**Ryan K.J** see Acton E.M. 4245  
**Saf J.M., Morey J. and Costa A.** A novel degradative strategy for the synthesis of p-quinones, 5125  
**Saburi M** see Ishii Y. 365  
**Sacher E.** A comparison of group electronegativity and field effects, 4683  
**Sadhu K.M. and Matteson D.S.** (Chloromethyl)lithium in an efficient conversion of carbonyl compounds to chlorohydrins or oxiranes, 795  
**Sadozai K.K** see Ogawa T. 5739  
**Safont V.S** see Gaviña F. 4779  
**Saha B., Bhattacharjee G. and Ghatak U.R.** A novel synthetic method for angularly functionalized polycyclic systems by vinyllogous Wolff rearrangement of  $\beta$ -Y-unsaturated diazo ketones, 3913  
**Saha M., Bagby B. and Nicholas K.M.** Cobalt-mediated propargylation/annulation: total synthesis of (*t*)-cyclocloorenone, 915  
**Sahoo S.P** see Hanessian S. 2949  
**synthesis of the ab disaccharide unit of olivomycin A**, 3349  
**Rousseaux O., Blondeau D. and Sliwa H.** Synthesis of new heterocyclic phenols: 8-hydroxy-s-triazolo[1,5-c] and [4,3-c] pyrimidines, 3127  
**Rousset J., Lemaire M., Guy A.** and Sačić R see Čeković Z. 5893, 5981  
**Saliki K** see Uesato S. 2893  
**Saimoto H. and Hiyama T.** A general highly efficient access to prenylated phenolic natural products. Synthesis of colletoclorin B and D, 597  
**Saimoto H., Kusano Y.** and Hiyama T. A alkoxy methyl aryl ethers to give hydroxyarenes. A rational synthesis of ascofuranone, 1607  
**Saito K** see Ogoshi H. 6365  
**Saito I., Kuo Y.-H. and Matsura T.** Photooxygenation of furans in the presence of trimethylsilyl cyanide. Oxidative cyanation of furans, 2757  
**Saito I., Morii T., Okumura Y., Mori S., Yamaguchi K. and Matsura T.** Ring-selective photorearrangement of bithiazoles, 6385  
**Saito K** see Nakata T. 6341, 6345  
**Saito M** see Shibusawa M. 1351  
**Saito S., Nagao Y., Miyazaki M., Inaba M. and Moriwake T.** Novel approach to stereoisomerically full set of optically pure 2,3-epoxysters from tartaric acids, 5249  
**Saito Y** see Shirzai Y. 727  
**Sajiki H** see Hirota K. 3263  
**Sakaguchi A** see Akiba K. 5651  
**Sakaguchi H** see Nishiyama H. 1599  
**Sakaguchi K** see Yoshida J. 6075  
**Sakai K** see Nakatsuwa S. 5735  
**Sakai S., Hitotsuyanagi Y., Aimi N., Fujiki H., Suganuma M., Sugimura T., Endo Y. and Shudo K.** Absolute configuration of lyngbyatoxin A (teleocidin A-1) and teleocidin A-2, 5219  
**Sakai S., Yamamoto E., Kitajima M., Yokota M., Aimi N., Wongseripatana S. and Ponglux D.** Biomimetic synthesis of koumine skeleton: Partial synthesis of 11-methoxykoumine (gelsemium-type alkaloid) from 18-hydroxygardnerine, 4585  
**Sakai T. M** see Ohfune Y. 6079  
**Sakai T. M., Kurokawa N.** and Ohfune Y. N-Carboxylate ion equivalent. II. Novel transformations of N-benzoyloxycarbonyl (Z) group and N-allyloxy carbonyl group into N-t-butyl dimethylsilyloxy carbonyl intermediate, 3753  
**Sakai T., Yoshimura S., Tsuyuki T., Takahashi T., Honda T. and Nakanishi T.** Two new quassinoid glycosides, yadanizosides N and O isolated from seeds of *Brucea javanica* (L.) MERR, 593  
**Sakakibara T., Yoshino K., Iizuka H. and Ishido Y.** Chlorination of 1,5-anhydro-3-nitro-1-enitol derivative in various ethers and its MNDO study, 5409  
**Sakamoto M., Aoyama H. and Omote Y.** Photochemical reactions of 3-acyl-2-thiotetrahydro-1,3-thiazines; a new synthesis of cepham analogues, 1335  
**Sakamura S** see Ichihara A. 1347, 61  
**Sakan K** see Smith D.A. 4877  
**Sakane S** see Esaki T. 1359  
**Sakata Y** see Yamaguchi S. 2411  
**Sakemi S., Higa T., Jefford C.W. and Bernardinelli G.** Venustatriol. A new, anti-viral, triterpene tetracyclic ether from *Laurencia venusta*, 4287  
**Sako M., Shimada K., Hirota K. and Maki Y.** Photochemical oxidative C-C bond cleavage of tryptophan side-chain by pyrimid[5,4-g]-pteridine N-oxide, 3877  
**Sakodinskaya I.K** see Ryabov A.D. 2169  
**Sakuda S** see Isogai A. 1161

- Sakuda S., Isogai A., Matsumoto S., Suzuki A. and Koseki K. The structure of allosamidin, a novel insect chitinase inhibitor, produced by *Streptomyces* sp., 2475
- Sakurai H see Hosomi A. 2881, see Shibuya M. 1351
- Sakurai H., Ando M., Kawada N., Sato K. and Hosomi A. Oxidative cleavage of silicon-carbon bond with trimethylamine-N-oxide. New access to primary alcohols and aldehydes from terminal alkenes and alkynes, 75
- Sakurai K see Hatakeyama S. 4485, see Ogoshi H. 6365
- Sakurai M see Maruoka K. 4895
- Sala A see Chiarino D. 3181
- Salazar J.A see Francisco C.G. 2513
- Salituro G.M. see Townsend C.A. 3819
- Salomon R.G. see Ehride R.S. 671
- Sait W.G. see Adebayo A.T.O.M. 1943
- Samizo F. see Okada K. 4493
- Sammes P.G. and Thetford D. New routes to *cis*-1,2-hydroxymamines and related systems, 2275
- Samuelson L.D. *Vitamin D*, 1-11
- Sanderson A.G. see Narasimhamurthy N. 3911, 991
- Sander W see Runge A. 5835
- Sanders C.G., Sharp T.R. and Allred E.L. Fast atom bombardment mass spectrometry of isomeric pyrazolinium salts under matrixless conditions, 3231
- Sanders J.K.M. see Cowan J.A. 1201
- Sanderon D.R. see Chenard B.L. 2801
- Sandrok K see Sundahl M. 1063
- Sanduja R see Linz G.S. 4833
- Sanicarin Z. and Tabaković I. Electrochemical transformations of 2'-hydroxyalcalones into flavanoids, 407
- Sano Y see Ueki M. 4181
- Santelli M see Pons J.-M. 4153
- Sarandesu L.A. see Castedo L. 1523
- Sariyar G see Gözler B. 1899
- Sarkar T.K. see Ghosh S.K. 525
- Sarma J.C. see Bordoloi M.J. 4633
- Sarolí A see Chilot J.J. 849
- Sartirana M.L. see Novi M. 6129
- Sasaki M. see Kawabata T. 6241
- Sasaki M. see Murao T. 3411
- Sasaki T. see Kobayashi J. 5755
- Sasaki T., Furihata K., Nakayama H., Seto H. and Otake N. The structure of a novel macrolide antibiotic, notonemycin A, 1603
- Sasaki Y see Tabushi I. 1187
- Sasaki Y. Reaction of carbon dioxide with propargyl alcohol catalyzed by a combination of Ru<sub>2</sub>(CO)<sub>12</sub> and Et<sub>3</sub>N, 1573
- Sasho M see Tamura Y. 195
- Saso H see Ando W. 5625
- Sass H see Hauptmann H. 6189
- Sassa T., Kato H. and Kajiura H. Isolation and structure of pycnonorin, a novel diterpene α-pyrone with antimicrobial activity, produced by phytopathogenic *Macrophoma kuwatsukai*, 2121
- Satake K see Schreiber S.L. 2575
- Sato F. see Kobayashi Y. 4775, see Suzuki S. 69
- Sato H see Fukuzawa A. 2901
- Sato J. see Tobe Y. 2905
- Sato K. see Sakurai H. 75
- Sato M. see Takeda K. 3903
- Sato M., Katagiri N., Muto M., Haneda T. and Kaneko C. Practicable synthesis of (1R,4R)-5-(1-menthoxy)-2-azabicyclo[2.2.0]hex-5-en-3-one and its derivatives: new building blocks for carbapenem nuclei, 6091
- Sato S see Ito Y. 4753, see Matsuda I. 5747
- Sato S., Matsuda I. and Izumi Y. The first example of aldol reactions between trimethylsilyl enol ethers and aldehydes by the aid of rhodium complex, 5517
- Sato T see Ichikawa S. 45, see Ishitsuka M. 2639, see Itoh T. 5405
- Sato T., Matsukawa H., Igarashi T. and Murayama E. The reaction of α-stannylmethylolithium with esters, 4339
- Sato T., Watanabe M. and Murayama E. The reaction of β-stannyl carbonyl compounds with Lewis acids, 1621
- Sato T., Kohnert R. and Gould S.J. Application of long range <sup>1</sup>H/<sup>13</sup>C heteronuclear correlation spectroscopy (LR HETCOSY) to structure elucidation: the structure of murayaquinone, 143
- Satoh M see Miyaura N. 3745
- Satoh T., Motohashi S. and Yamakawa K. A novel synthesis of α,β-
- tuent-directed oxidation: transannular oxidative cyclization of cycloalkenols to β-keto cyclic ethers, 4889
- Schleyer P.v.R., Spitznagel G.W. and Chandrasekhar J. The ethyl, 1- and 2-propyl, and other simple alkyl "carbanions" do not exist, 4411
- Schlingmann M see Treder W. 5605
- Schlosser W see Märkl G. 4019
- Schmidkler H see Mullen K. 477
- Schmid C.R. see Semmelhack M.F. 1119
- Schmidpeter A see Lochschmidt S. 2635
- Schmidt D see Hoppe D. 3591
- Schmidt M. see Bestmann H.J. 1999
- Schmidt R.R. and Kast J. Direct lithiation of glycals. Synthesis of C-2 branched sugars, 4007
- Schmidt R.R. and Zimmermann P. Synthesis of D-*erythro*-sphingosines, 481
- Schmidt U. and Griesser H. Total synthesis and structure determination of patellamide B, 163
- Schmidt U. and Weller D. Total synthesis of 3,6-dihydro-2H-pyran-2,5-dione anions, 1907
- Schmitz E see Kirschke K. 4281
- Schneider S see Bringmann G. 175
- Schoemaker H.E. see Vriesema B.K. 2045
- Schoenen F.J. see Burke S.D. 449
- Schofield C.J. see Baldwin J.E. 3461, 5042
- Schomburg D see Bodo B. 847
- Schomburg D., Thielmann M. and Winterfeldt E. Dienes as chiral templates, 5833
- Schott T., Boland W. and Jaenicke L. Enantioselective synthesis of dictyopterene C 6R-(+)-2,5-cycloheptadiene the pheromone of several dictyotales (Phaeophyceae), 2349
- Schradeol H. see Corey E.J. 5083
- Schreer M. see Kauffmann T. 5355
- Schreiber S.L. and Hulin B. Diastereotopic group selectivity at prostereogenic carbon center—synthesis of (+)-syn-4,8-dimethyldecanal, 4561
- Schreiber S.L. and Reagan J. On the preparation of optically active secondary alcohols from a 1,3-dioxan-4-one: substitution with organocupper reagents, 2945
- Schreiber S.L. and Satake K. Studies of the furan-carbonyl photocyclo-addition reaction: the determination of the absolute stereo-structure of asteltoxin, 2575
- Schreiman I.C. see Lindsey J.S. 4969
- Schripsema J., Verpoorte R. and Svendsen A.B. Trifluoroacetic acid, A <sup>1</sup>H-NMR shift reagent for alkaloids, 2523
- Schrömann G. and Diederich F. Progress towards artificial hydrolases: synthesis and binding properties of a water-soluble cyclophane host with a phenol cap, 4249
- Schubert U see Jäger V. 2583
- Schuda P.F., Ebner C.B. and Morgan T.M. The synthesis of Mannich bases from ketones and esters via enaminones, 2567
- Schuh W. see Appel R. 1661
- Schulman J.M. and Disch R.L. Ab initio heats of formation of medium-sized hydrocarbons. 6. Peristyrene, 5315
- Schulte G.K. see Wiberg K.B. 3083
- Schultz A.G., Eng K.K. and Kulling R.K. Photochemistry of 1-carbo-methoxy-6-methyl-

- tricyclo[4.3.1.0<sup>4,8</sup>]dec-2-en-10-one. Preparation of a 1,3-cyclooctadiene, 2331
- Schultz A.G., Lavieri F.P. and Macielag M.** The regioselectivity and stereoselectivity of the photocorearrangement of 3-methoxy-4-methoxycarbonyl-4-methylk-2,5-cyclohexadien-1-one, 1481
- Schultz J** see Magnus P. 655
- Schulz B** see Kirschke K. 4281
- Schuster D.I** see Wilczak W.A. 5331
- Schuster F** see Braun R. 1285, see Mayer H. 1289
- Schuster G.B** see Calhoun G.C. 911, see Goodson B. 3123, see Lan J.Y. 4261, see Liang T.-Y. 3325
- Schwitzguebel T** see Houriet R. 37
- Scopes D.I.C** see Ravenscroft P. 747
- Scott A.I** see Blagbrough I.S. 1251
- Scott L.T. and Oda M.** Quinones of homoazulene. The first quinones of an alternant hydrocarbon with a nonalternant homoconjugative perturbation, 779
- Sczepan R** see Wulff G. 1991
- Seconi G** see Ricci A. 5985
- Seelmeier G., Fessner W.-D., Grund C., Spurr P.R., Fritz H. and Prinzbach H.** [6+6]-Benzocycloaddition reactions, 1277
- Sedratí M** see Franck-Neumann M. 3861
- Seethach D** see Meyer W.L. 1449
- Seely F.L** see Tacacks J.M. 1257
- Seeman J.I** see Brown S.L. 623, see Davies S.G. 619
- Segawa T** see Kumagai T. 6225
- Seguinéau P** see Graff M. 1577
- Seibel W.L** see Corey E.J. 909, 905
- Seitz G., Dietrich S., Görgé L. and Richter J.** Intramolekulare Diels-Alder-Reaktionen mit 1,2,4-Triazinen und 1,2,4,5-Tetrazinen zu neuen Siebenring-anellierten Pyridinen und Pyridazinen, 2747
- Seitz H** see Märkl G. 2957
- Sejka H** see Märkl G. 1771, 171
- Sekihachi J** see Tamura Y. 195
- Sekine M** see Fujii M. 935, 3365, see Matsuzaki J. 5645, see Tanimura H. 4047
- Semenikov V.N** see Zefirov N.S. 3971
- Sennelhack M.F., Schmid C.R. and Cortés D.A.** Mechanism of the oxidation of alcohols by 2,2,6,6-tetramethylpiperidine nitrosonium cation, 1119
- Senanayake C** see Rigby J.H. 3329
- Senéchal D** see Gentric D. 3849
- Senéchal-Tocquer M.-C** see Gentric D. 3849
- Seneci P.F** see Fuganti C. 5275, 2061
- Senet J.-P.** see Riondel A. 6067, see Sennvey G. 5375
- Senet J.-P., Vergna G. and Wooden G.P.** Cyclic carbalkoxy amides. Synthesis and thermal decomposition to give N,N-dimethylamino isocyanate, 6319
- Sennvey G., Barcelo G. and Senet J.-P.** Synthesis and use of dibenzyl-pyrocarbonate: preparation of dipeptide free N-benzoylcarbonyl glycine, 5375
- Serafinowska H.T** see Reese C.B. 2291
- Serizawa Y** see Masaki Y. 231
- Serravalle M** see Vimara E. 3187
- Servi S** see Franzon G. 4363, see Fuganti C. 2061
- Sethi S.P** see Kenny M.J. 3927, 3923
- Seto H** see Sasaki T. 1603
- Sevestre H** see Agami C. 1501
- Sevetson B.R** see Wubbels G.G. 3103
- Sevin M** see Krief A. 2283
- Seydel-Penne J** see Vepray C. 6018, 2981
- Seyed-Mahdavi F., Teichmann S. and de Meijere A.** Reactivity enhancement through strain and electronic effects:  $\alpha$ -heterocyclo-
- propylidenacetates as powerful Michael acceptors, 6185
- Seydel D. and Hui R.C.** A stable 1:1 lithium acylcyanocuprate. Dependence of the stability of acylcyanocuprates on the nature of the alkyl substituent, 1473
- Seykens D** see van Eljk G.W. 2533
- Shah M., Taschner M.J., Koser G.F. and Rach N.L.** Jenkins T.E., Cyr P. and Powers D. Bislaclactonizations of olefinic diacids with [Hydroxy(tosyloxy)iodo]benzene, 5437
- Shah M., Taschner M.J., Koser G.F. and Rach N.L.** Tosyloxylactonization of alkenoic acids with [Hydroxy(tosyloxy)iodo]benzene, 4557
- Sharma M** see Gözler B. 1899
- Shankaran K** see Burke S.D. 6295
- Sharma P.K** see Akhila A. 5885
- Sharma R.B** see Brude R.S. 671, see Harrison D.M. 521
- Sharma R.P** see Bordoloi M.J. 4633
- Sharma S. and Oehlschlager A.C.** Control of regiochemistry in bimetalation of 1-decyne, 6161
- Sharp J.T. and Skinner C.E.D.** The generation and reactions of C,N-dianions of aromatic tosylhydrazones: ortho-N-dilithiated benzophenone tosylhydrazone, 869
- Sharp T.R** see Sanders C.G. 3231
- Shashidhar M.S** see Bhatt M.V. 2165
- Shashkov A.S** see Simonian S.O. 1245, see Smit W.A. 1241
- Shawcross F.E** see Forsyth D.A. 3569
- Shea K.J. and Svoboda J.J.** The intramolecular Diels-Alder cyclization of Ndiacyl acrylimidates. New methodology for the construction of nitrogen heterocycles, 4837
- Shechter H** see Amick T.J. 901
- Sheldrick G.M** see Hoppe D. 3591, see Lüssmann J. 3595
- Sheldrick G.M.** see Fitjer L. 3603
- Shen T.Y** see Ponpirom M.M. 309
- Shen Y** see Huang Y. 2903
- Sheng H., Lin S. and Huang Y.Z.** A novel palladium-catalyzed rearrangement of acetylenic ketones to furans, 4893
- Sheppard T.J** see Pettit M.A. 807
- Shi L** see Huang Y. 2179, see Wang Y. 4583
- Shiao M.-J., Lin J.L., Kuo Y.-H. and Shiu K.-S.** Oxidation of unactivated carbon atoms of cedrol and cedrol acetate with m-chloroperbenzoic acid, 4059
- Shiba T** see Wakamatsu T. 2143
- Shibasaki M** see Iimori T. 2149, 2153, see Mase T. 5245, see Shinoda M. 87
- Shibata I., Baba A. and Matsuda H.** Regioselective ring cleavage of oxiranes catalyzed by organotin halide - triphenylphosphine complex, 3021
- Shibata Y** see Fuchikami T. 3173
- Shibutani M** see Ojima J. 2467, see Yamamoto K. 975
- Shibutani T** see Furukawa N. 3899
- Shibuya M., Sakurai H., Maeda T., Nishiya K. and Saito M.** Synthesis of the degradation product of auroromycin chromophore and DNA-cleaving activities of its derivatives, 1351
- Shigemori H** see Nishiya S. 723
- Shih C** see Chen C.-P. 1891
- Shih K.-S** see Shiao M.-J. 4059
- Shim S.B** see Kim Y.H. 4749
- Shim S.C** see Choi J.H. 1157
- Shima K** see Cho H. 6377
- Shimada K** see Sako M. 3877
- Shimasaki Y** see Kiyoaka S. 3009
- Shimasaki M** see Suzuki K. 6233, 6237
- Shimizu T** see Iyoda T. 5633
- Shimizu H** see Hori M. 717
- Shimizu K** see Takahashi T. 5103
- Shin J., Paul V.J. and Fenical W.** New macrocyclic  $\alpha$ - and  $\gamma$ -pyrones from the marine red alga *Phaeocarpus labillardieri*, 5189
- Shin J.M. and Kim Y.H.** New facile synthesis of  $\alpha$ -hydroxyamides: Intermolecular and intramolecular catalysis in the reaction of  $\alpha$ -hydroxycarboxylic acids with N-sulfinylamines, 1921
- Shindo K** see Isogai A. 1161
- Shinkai S., Yamaguchi T., Nakao H. and Manabe O.** Synthesis of new deazaflavins with planar chirality. Redox-induced "rope-skipping" racemization, 1611
- Shinoda M., Iseki K., Oguri T., Hayasi Y., Yamada S. and Shibasaki M.** A convenient synthesis of  $\beta$ -alkynylpropanoic acids from  $\beta$ -propiolactones. Synthesis of  $\beta$ , $\beta$ , $\beta$ -tetrahydro-9(0)-methano- $\Delta^4$ ( $\alpha$ )-PGI, 87
- Shinoda T** see Hashimoto S. 2805
- Shinozaki K** see Ueki M. 4181
- Shiotara Y** see Fukazawa Y. 5621, 1825, see Kodama M. 2157
- Shiohara T** see Doyama K. 4497
- Shiotri T** see Aoyama T. 2005, see Kato S. 2653, see Mori S. 6111
- Shiotani N** see Ozaki S. 3157
- Shiragami H., Kawamoto T., Utimoto K. and Nozaki H.** Stereoselective synthesis of allylsilanes from chloromethylsilylalkynes, 589
- Shirahama H** see Konno K. 607, 3865
- Shiro M** see Kaneko K. 2387
- Shishido K., Hiroya K., Fukumoto K. and Kometani T.** An efficient and highly regioselective intra molecular Mannich-type reaction: a construction of the AEF ring system of aconitine-type diterpene alkaloids, 1167
- Shishido K., Takahashi K., Oshio Y., Fukumoto K., Kometani T. and Honda T.** Synthetic studies toward antitumor quassinoids. 2. A chiral approach to quassinarin via intramolecular Diels-Alder reaction, 1339
- Shishido K., Hiroya K., Fukumoto K. and Kometani T.** Tandem electrocyclic-sigmatropic reaction of benzocyclobutenes. II. A new route to isochroman-3-one-4-spiro-1'-cycloalk-3'-enes, 971
- Shizuri Y** see Nishiya S. 723
- Shizuri Y., Yamaguchi S., Terada Y. and Yamaura S.** Biomimetic syntheses of oppositol, oplopanone, and aphananol II from germacrene-D, 57
- Shizuri Y., Nakamura K., Yamamura S., Ohba S., Yamashita H. and Saito Y.** Total synthesis of isodihydrofutoquinol A, futoquinol, and isofutoquinol A and B, 727
- Shono T., Matsumura Y., Katoch S., Inoue K. and Matsumoto Y.** Electro-oxidative rearrangement of tosyl-amino group: facile synthesis of  $\alpha$ -amino aldehydes from primary amines, 6083
- Shubert D.C** see Molander G.A. 787
- Shudo K** see Namikawa K. 4209, see Sakai S. 5219
- Sibille S** see d'Incan E. 4175
- Sibille S., d'Incan E., Leport L. and Perichon J.** Electrosynthesis of alcohols from organic halides and ketones or aldehydes, 3129
- Sibtain F** see Alper H. 5449
- Sic S** see Proudfoot J. R. 423
- Siddiqui M.A** see Chong R.J. 5323
- Siegel C. and Thornton E.R.** Very high diastereofacial selectivities in convenient titanium-mediated aldol

- reactions, 457  
**Sierra M.A** see Alcaide B. 1627  
**Sin C.J** see Gu Q.-M. 1763, 5203  
**Silverstein R.M** see Webster F.X. 4941  
**Silvestri G., Gambino S. and Filardo G.** Electrochemical carboxylation of aldehydes and ketones with sacrificial aluminum anodes, 3429  
**Simon C.D** see Hunter R. 1385  
**Simonet J** see Delaunay J. 6205, see Le Guillant G. 2261  
**Simonian S.O., Smit W.A., Gybun A.S., Shashkov A.S., Mikaelian G.S., Tarasov V.A., Ibragimov I.I., Caple R. and Froen D.E.** Adsorption effects on the efficiency of cobalt-mediated cyclizations of allylpropargyl ethers into derivatives of 3-oxabicyclo[3.3.0]oct-5-en-7-one, 1245  
**Simonneaux G** see Massonneau V. 5497  
**Singh M.P** see Maiti S.N. 1423  
**Sinisterra J.V** see Fuentes A. 2967  
**Sinisterra J.V. and Marinas J.M.** Influence of the active sites and structure of inorganic supports on the photooxidative cleavage of olefins with oxygen in dry media, 4971  
**Sinnige M.J** see Klumpp G.W. 2247  
**Sinou D. and Emziane M.** Ouverture régiosélective d'époxydes par  $\text{Me}_2\text{SiN}$ , catalysée par  $\text{Ti}[\text{O}i\text{Pr}]_4$ , 4423  
**Sjogren E.B** see Evans D.A. 3119, 4961, 4957  
**Skell P.S., Baxter H.N. and Tanco J.M.** Reactions of  $\text{BrCl}$  with alkyl radicals, 5181  
**Skinner C.E.D** see Sharp J.T. 869  
**Skonezny P.M** see Vyas D.M. 3099  
**Skouroumounis G** see Della E.W. 5993  
**Slawin A.M.Z** see Heslin J.C. 1403  
**Sliwa H** see Rousseaux O. 3127  
**Sliwa H. and Raharimanana C.** Evidence for a PARC-ANRO mechanism in heterocyclic ring conversion of functionalized N-alkoxypyridinium salts, 349  
**Slusarchyk W.A., Dejneca T., Gougoutas J., Koster W.H., Kronenthal D.R., Malley M., Perri M.G., Routh F.L., Sundeen J.E., Weaver E.R., Zahler R., Godfrey J.D., Jr., Mueller R.H. and Von Langen D.J.**  $\beta$ -Lactam synthesis: chemoselective sulfonation and cyclization of the  $\beta$ -hydroxyvaline nucleus, 2789  
**Smaardijk A.A** see Ferings B.L. 997  
**Smeaton E** see Devchand D.K. 4635  
**Smirnov V.I** see Ziegler U. 5825  
**Smit W.A** see Simonian S.O. 1245  
**Smit W.A., Gybun A.S., Shashkov A.S., Stryckov Y.T., Kyz'mina L.G., Mikaelian G.S., Caple R. and Swanson E.D.** New route to the synthesis of polycyclic compounds based on a stepwise Adg-reaction of dicobalt hexacarbonyl complexes of conjugated enynes with a subsequent intramolecular Khand-Pauson type reaction, 1241  
**Smith A.B., Hale K.J. and Rivero R.A.** An efficient synthesis of glycosyl esters exploiting the Mitsunobu reaction, 5813  
**Smith A.G** see Pattenden G. 403  
**Smith D.A** see Liu C.-Y. 4881  
**Smith D.A., Sakai K. and Houk K.N.** Stereoselectivities of thermal and Lewis acid catalyzed intramolecular Diels-Alder reactions of internally activated dioeno-
- philes to form 5-11 membered rings, 4877  
**Smith F** see Gedye R. 279  
**Smith K** see Mistry A.G. 1051  
**Smith K.M. and Pandey R.K.** Total synthesis of N-methyl-protoporphyrins-IX, 2717  
**Smith P.W** see Dho J.C. 3203  
**Smith R.S** see Penn J.H. 3475  
**Snieckus V** see Chong R.J. 5323, see Green J.R. 535, see Majewski M. 531  
**Snowden R.L. and Wüst M.** Dienamines as Diels-Alder dienes. A novel benzannulation sequence, 703  
**Snowden R.L. and Wüst M.** Dienamines as Diels-Alder dienes. An efficient cyclohexannulation sequence, 699  
**Snyder J.K** see Tokles M. 5778, 3951  
**Snyder J.P** see Djuric' S.W. 4403  
**Söllhuber M.M** see Menéndez J.C. 3285  
**Sodano G** see Proudfit J.R. 423  
**Sodano G. and Spinella A.**
- the mechanisms of ring formation, 3299  
**Speckamp W.N** see Hiemstra H. 1411, see Melching K.H. 4799  
**Spergal J** see Pascal R.A., Jr. 4099  
**Spero D.M** see Parker K.A. 2833  
**Spinella A** see Sodano G. 2505  
**Spitznagel G.W** see Schleyer P.v.R. 4411  
**Spitzner D. and Šeboda H.** Akzeptoren für die doppelte Michael-Reaktion, eine verbesserte Synthese von Cyclopropyldencarbonäsureestern und deren Reaktivität gegenüber Cyclohexadienolaten, 1281  
**Spletzer E.G** see Belletire J.L. 131  
**Springer J.P** see Kozikowski A.P. 819, see Winkler J.D. 5177  
**Spurr P.R** see Schedlermeier G. 1277  
**Srinivasa Rao C** see Rama Rao A.V. 3297  
**St. Denis Y** see Guindon Y. 1237  
**Staab E** see Adam W. 2839
- kis(dimethylamino)benzene, 5719  
**Stahl D** see Winkler F.J. 335  
**Stambouli A., Chastrette F., Amouroux R., Chastrette M., Mattioda G. and Blanc A.** Dissymétrisation de la molécule du glyoxal 1-synthèse et reactivité de l'acetoxy-1-triethoxy-1,2,2 ethane, 4149  
**Stammer C.H** see Tamura M. 5435  
**Stamos I.K.** Arylation of  $\alpha$ -phosphoryl sulfides via their pummerer rearrangement intermediates generated from the corresponding sulfoxides, 6261  
**Stang P.J** see Apeloig Y. 6115, see Halton B. 5159  
**Stanovník B** see Buckland S.J. 1309  
**Stark W.M** see Kirby G.W. 5539  
**Starner W.E** see Davis F.A. 3957  
**Starý I** see Kocovský P. 1513  
**Stavrakis J** see Cameron D.W. 4999  
**Stawinski J** see Garegg P.J. 4051, 4055, 2665  
**Steigel A** see Wulff G. 1991  
**Stein I** see Hanack M. 3357  
**Steinmeyer A** see Bohlmann F. 5359  
**Stephan D., Gorgues A. and Le Coq A.** A facile access to masked isobenzofurans; high exo-stereo-selectivity in the Diels-Alder reactions of 4,7-dihydro-4,7-ethanoisobenzofuran, 4295  
**Sternberg J.A** see Denmark S.E. 5778, 3693  
**Stevens D.R. and Whiting D.A.** Synthetic methods for (exo,exo)- and (exo,endo)-2,6-diaryl-bicyclo[3.3.0]octane lignans: syntheses of ( $\pm$ )-aptosimon, ( $\pm$ )-styraxin, ( $\pm$ )-asarinin, and ( $\pm$ )-pluvialitol, 4629  
**Stevenson D.E., Akhtar M. and Gani D.** Structural and stereochemical studies of methionine decarboxylase from *Dryopteris flexuosa*, 5661  
**Stevenson J.M** see Weinstock L.M. 3845  
**Stevenson T** see Oppolzer W. 1139  
**Stick R.V** see McAdam D.P. 251  
**Stien M** see Paulsen H. 1135  
**Still W.C** see Mohamadi F. 893  
**Still W.C., Kemp D. and Hauck P.** Stereochemical studies of lasalocid alcohol epimers. Assignments and interconversions, 2727  
**Stirchak E.P** see Ziegler F.E. 1229  
**Stiver S. and Yates P.** Synthesis and photochemistry of 5-hydroxy-5 $\beta$ -cholest-3-en-6-one, 2215  
**Stöbbe M., Reiser O., Thiemann T., Daniels R.G. and de Meijere A.**

- Regiodirected substitution of [2,2.]paracyclophanedienes and [2,2.]paracyclophanes through tricarbonylchromium complexation, 2353
- Stoll I.L., Thompson J.E. and Djerassi C.** Biosynthetic studies of marine lipids 10. Double side chain extension in the triply alkylated sponge sterol *testosterol*, 4821
- Stoll A.T** see Sawada H. 775
- Stone C** see Fryzuk M.D. 1537
- Stone G.B** see Walsh E.J., Jr. 1127
- Stoodley R.J** see Crackett P.H. 1301
- Stork G. and Mook R.Jr.** Five vs six membered ring formation in the vinyl radical cyclization, 4529
- Straub J.A** see Roush W.R. 3349
- Streith J** see Defoin A. 3135, 4727
- Strekowski L., Tanious F.A., Chandrasekaran S., Watson R.A. and Wilson W.D.** New approach to conformational analysis of heterobiaryls in solution, 6045
- Strijteveen B** see Ferlinga B.L. 997
- Stringat R** see Lemaire F. 5847
- Strömbärg R** see Garegg P.J. 4055, 4051, 2665
- Stroud E.D** see Comins D.L. 1869
- Struchkov Yu.T** see Ryabov A.D. 2169
- Strychikov Y.I** see Smit W.A. 1241
- Stuber F.A** see Whitman P.J. 1887
- Sturgess M.A** see Barrett A.G.M. 3811
- Su W** see Corey E.J. 5951
- Suárez E** see Betancor C. 4783, see de Armas P. 3195, 5666, see Francisco C.G. 2513, see Freire R. 383
- Suckling C.J** see Aitken D.J. 3417, see Houghton J.D. 4655
- Suckling K.E** see Houghton J.D. 4655
- Sudhakar A. and Katz T.J.** Directive effect of bromine on stilbene photocyclizations. An improved synthesis of [7]helicenes, 2231
- Sudhakar A. and Katz T.J.** Erratum, 4084
- Suganaga T** see Tomioke K. 369
- Sugano Y** see Kitakata A. 3631
- Sugano Y., Kittaka A., Otsuka M., Ohno M., Sugiyama Y. and Umezawa H.** Transition-metal binding site of bleomycin. A synthetic analogue equivalent to bleomycin in activating molecular oxygen, 3635
- Suganuma M** see Sakai S. 5219
- Sugawara T** see Yukada H. 235
- Suggs J.W. and Ytuarte L.** Hydrocarbon oxidations with chromyl trifluoroacetate, 437
- Suginoto M** see Ito Y. 4753, see Ogawa T. 5739
- Suginoto T** see Matsuura S. 585
- Suginoto T., Murata S., Matsuura S., and Pfleiderer W.** Synthesis of aspero-pterin-B and some analogues, 4179
- Sugimura T** see Sakai S. 5219
- Sugiura S** see Bannai K. 6353
- Sugiura T** see Tsuji J. 731
- Sugiura Y** see Kitakata A. 3631, see Otsuka M. 3639, see Sugano Y. 3635
- Sukennik C.N** see Balachander N. 4849
- Sumimoto H** see Kodama M. 2157
- Sumiya R** see Tamai K. 3377
- Sun F., Liang X., Yu D., Xu C. and Clardy J.** The structures of spirasine V and spirasine VI, 275
- Sun K.K.** Cycloaddition reaction of sydnone and maleimide, 317
- Sun K.K.** Replacement of dipolarophile of 1,3-cycloadduct, 321
- Sumagawa M** see Kawabata T. 6241
- Sunay U., Mootoo D., Molino B. and Fraser-Reid B.** A ready route from vicinal *cis*-diols to epoxides, 4697
- Sunay U. and Fraser-Reid B.** Synthetic studies relating to the Cl-C9 "Eastern" half of rosaramycin, 5335
- Sundahl M., Wernerström O., Sandros K. and Norinder U.** A sixfold triplet-sensitized Z/E isomerization of a  $\pi$ -perimeter macrocycle, 1063
- Sundberg R.J. and Baxter E.W.** Photochemistry of quinone diazides. Intramolecular oxygen transfer and carboid addition during photolysis of N-allyl-sulfonamido quinone diazides, 2687
- Sundsteen J.E** see Slusarchyk W.A. 2789
- Sunko D.E** see Ladika M. 1703
- Supatimuro D** see Tantivivich A. 5301
- Surico G** see Itaya T. 6349
- Suschitzky H** see Clarke P.D. 91
- Suschitzky J.L** see Clarke P.D. 91
- Sustmann R., Lau J. and Zipp M.** Alkylation of aralkyl bromides with tetra alkyl tin compounds in presence of 2,2'-bipyridine)-fumaronitrile palladium(O), 5207
- Sutherland I.O** see Bulman Page P.C. 3535
- Sutton K.H** see Davies S.G. 3787
- Suzuki A** see Hyuga S. 977, see Isogai A. 1161, see Miyaura N. 3745, 6369, see Sakuda S. 2475
- Suzuki K., Okhuma T., Miyazawa M. and Tsuchihashi G.** Asymmetric synthesis of chiral synthons bearing alkynyl group via organoaluminum-promoted pinacol-type rearrangement, 373
- Suzuki K., Masuda T., Fukazawa Y. and Tsuchihashi G.** C(2)-Stereocontrol of  $\delta$ -lactones via acid-catalyzed cyclization of ketene dithio-acetal having an internal hydroxyl group, 3661
- Suzuki K., Miyazawa M., Shimazaki M. and Tsuchihashi G.** Stereo-divergent asymmetric total synthesis of avenaciolide and isavenaciolide. Complete reversal of stereoselectivity in reduction of 2-vinyl aldehyds with/without trimethylsilyl directing group, 6237
- Suzuki K., Shimazaki M. and Tsuchihashi G.** Synthesis of 2-vinyl-1,3-diols via highly stereoselective reduction of 2-vinyl aldehyds using trimethylsilyl stereo-directing group, 6233
- Suzuki S., Fujita Y., Kobayashi Y. and Sato F.** New approach to poly-isoprenopolycols possessing glycerol termini by using a high oxygenated C<sub>6</sub>-unit, 69
- Suzuki T** see Kabuto C. 925, see Otsuka M. 3639
- Suzuki Y** see Fuchikami T. 3173, see Kawata H. 4489, see Nishiyama S. 4481
- Svendsen A.B** see Schripsema J. 2523
- Svensson A** see Hallberg A. 1959
- Svoboda J.J** see Shee K.J. 4837
- Swain C.J** see Baker R. 3059
- Swaminathan S** see Ravikumar V.T. 1640
- Swanson E.D** see Smit W.A. 1241
- Swartzendruber J.K** see Boyd D.B. 3457
- Swanson S** see Ueoka R. 1183
- Sweeney J.B** see Baldwin J.E. 5423
- Swerts H.M** see Durrwachter J.R. 1261
- Swinton J.S** see Chem C.-P. 1891
- Swoboda H** see Spitzner D. 1281
- Szántay C** see Moldvai I. 2775, see Poppe L. 5769
- Szántay C., Jr** see Moldvai I. 2775
- Szabolcs J** see Parkes K.E.B. 2535
- Szarek W.A** see Hvidt T. 3807
- Szarek W.A., Zamojski A., Tiwari K.N. and Ison E.R.** A new, facile method for cleavage of acetals and dithioacetals in carbohydrate derivatives, 3827
- Szeimies G** see Belzner J. 5839, see Grüber F. 1563, see Morf J. 5363
- Szilágyi L** see Herczegh P. 1509
- Taafrout M., Landais Y., Robin J.-P. and Davoust D.** Isolement, étude stéréochimique et synthèse biomimétique du stéganolide A, nouveau lignane bisbenzocyclooctadiénolactonique de Steganotaenia araliacea, 1781
- Tabaković I** see Saniganin Z. 407
- Tabei T** see Mikami K. 4511
- Tabuchi T., Inanaga J. and Yamaguchi M.** Palladium-catalyzed reduction of propargyl acetates with  $\text{SmI}_2$ . A mild and convenient method for the preparation of allenes, 5237
- Tabuchi T., Kawamura K., Inanaga J. and Yamaguchi M.** Preparation of medium- and large-ring lactones.  $\text{SmI}_2$ -induced cyclization of  $\omega$ -( $\alpha$ -bromoacetoxy) aldehydes, 3889
- Tabuchi T., Inanaga J. and Yamaguchi M.** Reduction of allylic acetates by using a novel  $\text{Pd}(0)\text{-SmI}_2$  system, 601
- Tabuchi T., Inanaga J. and Yamaguchi M.** Reductive coupling of allylic acetates with carbonyl compounds by using  $\text{Pd}(0)\text{-SmI}_2$  system, 1195
- Tabuchi T., Inanaga J. and Yamaguchi M.**  $\text{SmI}_2$ -induced iodomethylation of carbonyl compounds, 3891
- Tabushi I. and Morimitsu K.** Catalytic hydroxylation on aromatic rings by use of an artificial P-450 system assisted by acid and acid anhydride, 51
- Tabushi I. and Nishiya T.** Circular dichroism active artificial phospholipids for the study of molecular membrane dynamics focused on lipid-lipid interaction, 4589
- Tabushi I. and Hamachi I.** First member of artificial flavolipid family, its synthesis and incorporation into artificial liposomes, 5401
- Tabushi I., Kuroda Y. and Sasaki Y.** Iron-sulfur cluster micelle as a ferredoxin model, 1187
- Tackacs J.M., Helle M.A. and Seely F.L.** An improved procedure for the two carbon homologation of esters to  $\alpha,\beta$ -unsaturated esters, 1257
- Taddei M** see Camici L. 5155
- Taddei M. and Mann A.** Cycloaddition reactions of 2-tributylstannyl-1,3-butadiene, 2913
- Taffer I.L** see Nicolaou K.C. 1881
- Tagliavini E** see Boldrini G.P. 4223, see Capobianco M. 1387
- Taguchi T., Kawara A., Watanabe S., Oki Y., Fukushima H., Kobayashi Y., Okada M., Ohta K. and Iitaka Y.** An efficient resolution of 3-trifluoro-methyl- $\gamma$ -butyrolactone and its conversion to 5,5,5-trifluoroleucinol, 5117
- Taguchi T., Kitagawa O., Morikawa T., Nishiwaki T., Uehara H., Endo H. and Kobayashi Y.** Synthesis of 2,2-defluoroesters by iododi-fluoroacetate-copper with organic halides, 6103
- Tajima K.** Anomer-specificity in the degradation reaction of D-glucopyranuronic acid tetraacetate leading to comanic acid in the acetic anhydride-base system, 6095
- Tajiri A** see Morita N. 3873
- Takada S** see Kobiro K. 2465

- Takada T., Endo T. and Okawara M. Reduction of methyl benzoylformate by reduced nicotinamide adenine dinucleotide model in the presence of rhizomic acid, 615
- Takahashi H., Hattori M., Chiba M., Morimoto T. and Achiba K. Preparation of new chiral pyrrolidinebisphosphines as highly effective ligands for catalytic asymmetric synthesis of R-(+)-pantolactone, 4477
- Takahashi K see Ogura K. 3665, 6381, see Shishido K. 1339
- Takahashi K., Namekata N. and Takase K. Heptafulvalene-3,4-dione, a novel *p*-tropoquinone methide-type
- Silafunctional compounds in organic synthesis. 30. Intramolecular hydroisolation of alkenyl alcohols: a new approach to the regioselective synthesis of 1,2- and 1,3-diols, 3377
- Tanamaru Y., Ochiai H., Nakamura T. and Yoshida Z. Arylation and vinylation of 2-carboethoxyethylzinc iodide and 3-carboethoxypropylzinc iodide catalyzed by palladium, 955
- Tanatsukuri S see Tanaka T. 199
- Tamburu U.S.F. see Kodama M. 1197
- Tanno C see Gamponi R. 3999, see Papageorgiou C. 555
- Tamura H., Kondo T. and Goto T. The
- 16-membered ring macrolide tylosin, from D-glucose. Selective application of MPM and DMPM protecting groups for hydroxy functions, 3651
- Tanaka T., Yamada Y. and Ikebara M. Trityloxyethylamino group for the protection of phosphoryl group in oligonucleotide synthesis, 5641
- Tanigawa Y see Murahashi S. 227
- Taniguchi H see Kitamura T. 3885, see Morimoto Y. 1809
- Taniguchi M see Cheon S.H. 4759, see Nakagawa M. 3235, see Wakamatsu T. 6071
- Taniguchi M., Hino T. and Kishi Y. Aldol reaction of allenolates
- Takahashi S see Doyama K. 4497
- Takahashi T see Murae T. 3411, see Negishi E. 2829, see Sakaki T. 593
- Takahashi T., Misra M., Shimizu K. and Tsuji J. Diastereoselective methylation of 2,3-dialkylcyclopentanone enolates, 5103
- Takahashi T., Nakamoto S., Ikeda K. and Achiba K. New development of a common glucosamine disaccharide intermediate with chemically differentiated two amino and six hydroxyl groups for lipid A syntheses and a formal synthesis of *Salmonella* mutant lipid A., 1819
- Takahashi T., Miyazawa M., Ueno H. and Tsuji J. Palladium-catalyzed stereoccontrolled cyclization of 1,3-diene monoepoxide: a route to a new synthetic intermediate for de-AB-cholestanate derivative, 3881
- Takai Y see Sawada M. 3013, 5649
- Takaiishi N see Hori K. 4615
- Takano K see Kiyooka S. 5629
- Takano S see Hatakeyama S. 4485
- Takano S., Kudo J., Takahashi M. and Ogasawara K. Stereoselective kinetic protonation of chiral  $\gamma$ -lactone enolates, 2405
- Takano Y see Ohmori M. 71
- Takase K see Takahashi K. 5515
- Takata T see Fujimori K. 1617, 581
- Takata T. and Ando W. Asymmetric oxidation of racemic sulfide. Stereochemistry of enantiomer differentiation reaction, 1591
- Takayama H see Ohmori M. 71
- Takayama H., Hayashi K. and Koizumi T. Enantioselective total synthesis of glyoxalase I inhibitor using asymmetric Diels-Alder reaction of a new chiral dienophile, (S)-3-(3-tirfluoromethylpyrid-2-ylsulfinyl)-acrylate, 5509
- Takeda A see Utsuboi S. 1915, 2643, see Utsuboi M. 4737
- Takeda K., Sato M. and Yoshii E. Synthesis of (1*R*)-cirsinianin, a marine sponge sesterterpenes, 3903
- Takeda T. see Nakami K. 5109
- Takeda T., Kaneko Y. and Fujiwara T. A cross-aldo type reaction of alkenyl sulfide with trimethylsilyl enol ether, 3029
- Takemasa T see Abiko A. 4537
- Takeuchi R see Tamura Y. 81, 2117
- Takeyama T see Imamoto T. 3243
- Takeyasu T see Chatani N. 1841
- Takinami S see Hyuga S. 977
- Tallman E.A. see Garst M.E. 4533
- Tamao K. and Maeda K. Silafunctional compounds in organic synthesis - XXIX. Oxidation of (alkenyl)-alkoxysilanes to  $\alpha$ -hydroxy ketones, 65
- Tamao K., Tanaka T., Nakajima T., Sumiya R., Arai H. and Ito Y.
- Tamura M., Jacyno J. and Stammer C.H. The reaction of [I, I'-bis(trifluoroacetoxy)iodo]benzene with N-(benzyloxycarbonyl)-1-amino cyclopropane-1-carboxamide, 5435
- Tamura N., Kawano Y., Matsushita Y., Yoshioka K. and Ochiai M. An efficient synthesis of a key intermediate for optically active 5,6-cis-carbapenem antibiotics, 3749
- Tamura R., Oda D. and Kurokawa H. Synthesis of  $\alpha$ -amino ketone hydrochlorides via chemoselective hydrogenation of  $\alpha$ -nitro ketones, 5759
- Tamura Y., Sasho M., Akai S., Kishimoto H., Sekihachi J. and Kita Y. A highly convergent strategy for the synthesis of 4-demethoxy-daunomycinone and daunomycinone: a novel synthesis of C4-acetoxylated homophthalic anhydrides, 195
- Tamura Y., Kondo H., Annoura H., Takeuchi R. and Fujioka H. Diastereoselective addition of Grignard reagents to chiral  $\alpha$ -ketocetales, 81
- Tamura Y., Ko T., Kondo H., Annoura H., Fuji M., Takeuchi R. and Fujioka H. Diastereoselective nucleophilic addition to chiral open-chain  $\alpha$ -ketocetals - synthesis of (R)- and (S)-mevalolactone, 2117
- Tanaka H. see Hori M. 717
- Tanaka M see Kobayashi T. 4745
- Tanaka M., Urata H. and Fuchikami T. Facile synthesis of 3,4-dihydro-4,4-dimethyl-2H-pyran-2-one via palladium catalyzed terminal oxidation of 3,3-dimethyl-4-pentenoates, 3165
- Tanaka N., Kumagai T. and Mukai T. Photoreaction of 9-dicyano-methylene-1,2,3,4-tetrahydro-1,4-methanonaphthalene: the 1,3-carbon migrations and the ethylene extrusion to dicyano-isobenzofulvene, 6221
- Tanaka O see Yasuhara F. 4033
- Tanaka S see Yamaguchi M. 959
- Tanaka T see Bannai K. 6353, see Okawa Y. 3647, see Tamao K. 3377, see Yamaguchi S. 2411
- Tanaka T., Yamada Y. and Ikebara M. Chemical synthesis of 5'-phosphorylated of oligodeoxyribonucleotide on a polymer support, 3267
- Tanaka T., Tanatsukuri S. and Ikebara M. New approach to the synthesis of deoxynucleoside-phosphoramidite derivatives, 199
- Tanaka T., Okawa Y., Hamada T. and Yonemitsu O. Total synthesis of tylonolide, the aglycone of the
- M., Hino T. and Kishi Y.  $\beta$ -Halovinyl ketones: synthesis from acetylenic ketones, 4763
- Taniguchi Y see Murahashi S. 227
- Tanimura H., Sekine M. and Hata T. An effective method for the preparation of O<sup>6</sup>-substituted guanosine and N<sup>3</sup>-substituted uridine derivatives via the corresponding stannylated intermediates, 4047
- Tanino H see Inoue S. 5225
- Tanious F.A. see Strelkowski L. 6045
- Tanko J.M. see Skell P.S. 5181
- Tantivanich A. and Supatimuro D. An efficient synthesis of 9-phenanthrols, 5301
- Tarasov V.A. see Simonian S.O. 1245
- Taschner M.J. see Shah M. 4557, 5437
- Tashiro J see Kiyooka S. 5629
- Tatemitsu H see Yamaguchi S. 2411
- Tatsuta K see Toshima K. 4741
- Taylor D.A. see Lee T.V. 5021
- Taylor E.C. and Macor J.E. Further intramolecular reactions of 1,2,4-triazines. Synthesis of furc[2,3-b]pyridines and dihydropyran[2,3-b]pyridines, 431
- Taylor E.C. and Macor J.E. Intramolecular Diels-Alder reactions of 1,2,4-triazines: exploitation of the Thorpe-Ingold effect for the synthesis of 2,3-cyclopentenopyridines and 5,6,7,8-tetrahydroquinolines, 2107
- Taylor E.C. and French L.G. Intramolecular Diels-Alder reactions of 1,2,4-triazines: Synthesis of tricyclic condensed pyridines and pyrazines, 1967
- Taylor R.J.K. see Huckstep M.R. 5919
- Taylor W.C. see Hambley T.W. 3281
- Teague S.J. see Ladlow M. 3279
- Teichmann S see Seyed-Mandavi F. 6185
- Tellier F., Sauvêtre R. and Normant J.-F. Preparation et réactivité de quelques enynes fluorescentes, 3147
- Temme G.H. see Whitman P.J. 1887
- Tempsta M.S. see Corley D.G. 4133, 127
- Teoule R see Kraszewski A. 861
- Terada S see Fuji K. 5381
- Terada Y see Shizuri Y. 57
- Teramae T see Nakatsuka S. 4327
- Teranishi K see Nakatsuka S. 2391, 6361
- Terao Y see Aono M. 4039
- Terashima S see Ito Y. 5751, see Kawabata T. 6241, see Kawasaki M. 2145, see Matsuda F. 3407
- Terpiniski J see Moss R.A. 419, 2707
- Texier-Boulet F. see Mélot J.-M. 493
- Texier-Boulet F. and Lequette M. An unexpected reactivity of simple heterogeneous mixture of  $\gamma$ -alumina and potassium fluoride: 1-hydroxyalkane phosphonic esters synthesis from non-activated

- ketones in "dry media", 3515  
**Tezuka T., Otsuka T., Wang P.-C.** and Murata M. Formation and reaction of N-substituted peroxy-carboximidic acids from α-azobenzyl hydroperoxides by pyridine-catalyzed reaction, 3627  
**Thakur R.S** see Akhila J.A. 5885  
**Thal C** see Alazard J.-P. 1319, see Labidalle S. 2861  
**Thanupran C., Thebtaranonth C.** and **Thebtaranonth Y.** Stereoselective triple Michael addition, 2295  
**Thépenier P** see Verpoorte R. 239  
**Thea S** see Guanti G. 4639  
**Thebtaranonth C** see Thanupran C. 2295  
**Thebtaranonth Y** see Naengchomnong W. 2439, 5675, see Thanupran C. 2295  
**Then W** see Miller R.D. 2447  
**Thenappan A.** and **Wadsworth W.S., Jr.** The simple conversion of a phosphorochloride into one of opposite configuration, 1755  
**Theobald F.R** see Charpin P. 2989  
**Thetford D** see Sammes P.G. 2275  
**Thielmann M** see Schomburg D. 5833  
**Thiem J** see Treder W. 5605  
**Thiemann T** see Stöbbe M. 2353  
**Thomas A** see Mann J. 3533  
**Thomas A.F.** and **Dunn H.** A new reaction of acetylenes, the addition of methanol to 5-hydroxyhex-3-yn-2-one. Synthesis of the "onion furanone", 2-hexyl-5-methyl-3-[2H]-furanone, 505  
**Thompson J.E** see Stoilov I.L. 4821  
**Thomson S.A** see Pirrung M.C. 2703  
**Thornton E.R** see Ner-Stormes M. 897, see Siegel C. 457  
**Thottathil J.K.** and **Wong M.K.Y.** A highly convergent preparation of phosphonyloxyacylamino acids, 5441  
**Thottathil J.K., Przybyla C., Malley M.** and **Gougoutas J.Z.** A meso specific reaction, 1533  
**Thottathil J.K.** and **Moniot J.L.** Lithium diarylcuprate reactions with 4-tosyloxy-L-prolines; an interesting stereochemical outcome. A synthesis of trans-4-phenyl-L-proline, 151  
**Thurkauf A** see Tius M.A. 4541  
**Tietze L.F.** and **Beifuss U.** Asymmetric induction in intramolecular ene reactions of 1,7-dienes, 1767  
**Tietze L.F.** and **Voss E.** Synthesis of 3-amino sugars of the daunosamine type through hetero-Diels-Alder reaction of enamines, 6181  
**Tinga M.A.G.M** see van de Heisteeg B.J.J. 6123  
**Tintillier P., Dupas G., Bourguignon J.** and **Queguiner G.** Reduction with N-benzyl-1,4 dihydro-nicotinamide. A reinvestigation, 2357  
**Tischler A.N.** and **Lanza T.J.** 6-Substituted indoles from o-halonitrobenzenes, 1653  
**Tius M.A.** and **Thurkauf A.** Aromatic annelation. A synthesis of (4)-methylk-9,14-dehydromorphinan, 4541  
**Tius M.A.** and **Gomez-Galeno J.** Aromatic annelation. Synthesis of naphthalenes, 2571  
**Tivakornpannarai S** see Harnos S. 3701  
**Tiwari K.N** see Szarek W.A. 3827  
**Tóth G** see Moldvai I. 2775  
**Tobe Y** see Kobiro K. 2465  
**Tobe Y., Sato J., Sorori T., Kakiuchi K.** and **Odaira Y.** Cyclobutyl-cyclopropylcarbinyl type rearrangement of 1-oxospirohexane derivatives. A new entry to functionalized norcaranes, 2905  
**Tochtermann W** see Königstein V. 2961  
**Toczek J** see Moody C.J. 5253  
**Togo H** see Barton D.H.R. 1327  
**Toi H** see Ogoshi H. 6365  
**Tokitoh N** see Ando W. 6357, 6107  
**Tokles M.** and **Snyder J.K.** Asymmetric oxidation of olefins to vicinal diols with osmium tetroxide, 3951  
**Tokles M.** and **Snyder J.K.** Erratum, 5778  
**Tokoroyama T** see Iio H. 6373  
**Tokugawa N** see Ichihara A. 1347  
**Toliopoulos E** see Kauffmann T. 5355  
**Tomaselli G.A** see Ballistreri F.P. 5139  
**Tombo G.M.R., Schär H.-P., Busquets X.F.** and **Ghisalba O.** Synthesis of both enantiomeric forms of 2-substituted 1,3-propanediol monoacetates starting from a common prochiral precursor, using enzymatic transformations in aqueous and in organic media, 5707  
**Tomellini S.A** see Weinstock L.M. 3845  
**Tomimori K** see Bannai K. 6353  
**Tomimori K., Yasuda K., Kawasaki H.** and **Koga K.** A rationale of diastereofacial selection in the alkylation of endocyclic enolates with chirality at the β-position, 3247  
**Tomioka K., Suenaga T.** and **Koga K.** Asymmetric conjugate addition reaction by the use of (S)-Y-trityloxymethyl-Y-butylolactam as a chiral auxiliary, 369  
**Tomioka K., Ando K., Yasuda K.** and **Koga K.** Asymmetric Michael reaction of α-alkyl 8-keto esters via chiral enamines, 715  
**Tomioka K., Yasuda K.** and **Koga K.** Enantioface differentiating Michael reaction of ethyl acetooacetate with alkylidenemalonates via chiral enamine, 4611  
**Tomita K** see Umemoto T. 4465, 3271  
**Tomita S** see Okada K. 2645  
**Tomoaka K** see Kinoshita M. 1811  
**Toppet S** see Tutonda M. 2509  
**Topping R.J** see Crumbliss A.L. 889  
**Torii S** see Uneyama K. 2395  
**Torreilles E** see Cristau H.-J. 2965, 1775  
**Torres L.E.** and **Larson G.L.** The palladium (II) acetate promoted 6-endo-trig cyclization of 1,1-dialkyl-2-silyloxy-1,5-dienes, 2223  
**Torres M.J., Zayas J.** and **Platz M.S.** A formal CH insertion reaction of an aryl nitrene into an alkyl CH bond. Implications for photo-affinity labelling, 791  
**Torrini I** see Paradisi M.P. 5029  
**Toru T., Kanefusa T.** and **Maekawa E.** A novel synthesis of thiolactones: selenothiolactonization, 1583  
**Toscano R** see Rodriguez-Kahn L. 5459  
**Toshima H** see Nishiyama S. 3643  
**Toshima K., Tatsuta K.** and **Kinoshita M.** Total synthesis of elaiophylin (azalomycin B), 4741  
**Toth G** see Parkes K.E.B. 2535  
**Toupet L** see Delaunay J. 6205  
**Tour J.M** see Negishi E. 4869  
**Tourbath H** see Grée R. 4983  
**Townsend C.A., Salituro G.M., Nguyen L.T.** and **DINovi M.J.** Niogenetically-modelled total syntheses (-)-nocardicin A and (-)-nocardicin G, 3819  
**Townsend C.A.** and **Christensen S.B.** Stereochemical correlation of (-)-averantin, 887  
**Toy A** see Yamashita A. 3471  
**Toyoda J** see Ibata T. 4383  
**Tracy J.K** see Corley D.G. 4133  
**Tracy M** see Acton E.M. 4245  
**Tran A** see Garst M.E. 4533  
**Tran P.L., Brienne M.J., Malhète J.** and **Lacombe L.** Synthesis of biologically active fluorescent phorbol esters, 2371  
**Treder W., Thiem J.** and **Schlingmann M.** Enzymatic synthesis of cyclodextrins with α-glucosylfluoride as a substrate for cyclodextrin-α(1→4)glucosyl-transferase, 5605  
**Tresselt D** see Dornberger K. 559  
**Triantaphylides C** see Langrand G. 29  
**Trigo G.G** see Menéndez J.C. 3285  
**Trombini C** see Boldrini G.P. 4223, see Capobianco M. 1387  
**Tramp M** see Marugg J.E. 2271, 2661  
**Trost B.M.** and **Mignani S.M.A.** stereospecific palladium mediated [3+2] cycloaddition, 4137  
**Trost B.M., Metz P.** and **Hane J.T.** A synthetic approach to polyene macrolides, synthesis of the building blocks, 5691  
**Trost B.M., Hane J.T.** and **Metz P.A.** synthetic approach to polyene macrolides. Macrolide and polyene generation, 5695  
**Trost B.M.** and **King S.A.** A two catalyst system for cycloaddition of a trimethylenemethane fragment to aldehydes, 5971  
**Trost B.M., Urch C.J.** and **Hung M.-H.** Regiochemical directing effects in palladium catalyzed alkylations with polyene electrophilic partners, 4949  
**Trost B.M., Balkovec J.M.** and **Angle S.R.** Synthesis of 4-methylene-1-cyclopentenes, 1445  
**Trost B.M.** and **Scanlan T.S.** Synthesis of allyl sulfides via a palladium mediated allylation, 4141  
**Trotter J** see Ariel S. 783, see Evans S.V. 1419  
**Trova M.P** see Paquette L.A. 1895  
**Trowitzsch-Kienast W** see Bodo B. 847  
**Troyansky E.I** see Nikishin G.I. 4215  
**Trujillo J.M** see Añorbe B. 4991  
**Tschappat K.D** see Lehr R.E. 1649  
**Tsotinis A** see Garratt P.J. 2761  
**Tsuboi S., Nishiyama E., Utaka M.** and **Takeda A.** A facile synthesis of (R)-(-)-hexahydromandelic acid with fermenting baker's yeast, 1915  
**Tsuboi S., Matanabe K., Mimura S.** and **Takeda A.** A novel synthesis of 2,5-disubstituted furans and selenophenes via the oxidation of 2,4-alkadienoic esters with  $\text{SeO}_2$ , 2643  
**Tsubotani S** see Harada S. 6229  
**Tsuchihashi G** see Suzuki K. 6237, 6233, 3661, 373  
**Tsuchiya J** see Fukazawa Y. 1929  
**Tsuchiya T** see Hasebe M. 3239  
**Tsuchiya Y.** and **Murata M.** Total synthesis of homoerythrinan alkaloids, 68H,7-dihydro-schelhammeridine (alkaloid A) and 68H,7-dihydro-3-epischelhammeridine (alkaloid 1): revision of the proposed stereochemistry, 3385  
**Tsuji J** see Minami I. 1805, see Takahashi T. 3881, 5103  
**Tsuji J., Sugihara T.** and **Minami I.** Palladium-catalyzed carbonylation of propargylic carbonates: preparation of 2,3- and 2,4-dienyl carboxylates, 731  
**Tsuji J., Nisar M.** and **Minami I.** Preparation of α-methylene ketones by the palladium-catalyzed decarboxylation-deacetoxylation of allyl α-acetoxyethyl-β-keto carboxylates under mild conditions, 2483  
**Tsuji Y., Huh K.-T.** and **Watanabe Y.** Ruthenium complex catalyzed N-heterocyclization. Indoles from aminoarenes and glycols, 377

- Tsurimoto K see Mandai T. 603  
 Tsukamoto M see Iio H. 6373  
 Tsunayoshi T see Ando W. 5105, 3251  
 Tsuno Y see Mishima M. 951, 939, see  
 Sawada M. 3013, 5649  
 Tsunoda T see Kodama M. 1197  
 Tsuruda T see Ogura K. 3665  
 Tsuyuki T see Sakaki T. 593  
 Tückmantel W see Nozaki K. 2007
- K., Kobayashi T. and Hayashi Y.  
 Diastereoselective addition of 2-  
 butenylmetal "ate" complexes to  
 aromatic ketones mediated by  
 $\text{Cr}(\text{CO})_6$ , complexation, 967  
 Uemura M., Kobayashi T., Minami T. and  
 Hayashi Y. Stereoselective syn-  
 thesis of key ( $n^{\circ}$ -arene) $\text{Cr}(\text{CO})_6$   
 complexes to acorenone and
- Utkina N.K see Fedoreyev S.A. 3177  
 Utne T see Weinstock L.M. 3845
- Vaccaro W see Lipshutz B.H. 4241  
 Valerio R.M see Perich J.W. 1377  
 Vallée Y., Masson S. and Ripoll J.-L.  
 A novel route to thioketenes by

- Tidos F see Gyor M. 3759, 4795, see  
 Rockenbauer A. 3763, 3425, 3421  
 Tubergen M.W see Bach R.D. 3565  
 Tufariello J.J. and Winzenberg K. A  
 nitrone-based synthesis of the  
 pyrrolizidine alkaloid croal-  
 binecine, 1645  
 Tufariello J.J. and Puglis J.M. The  
 $\alpha,\alpha'$ -dialkylation of cyclic  
 amines. The synthesis of  
Solenopsis ant venoms, 1489  
 Tufariello J.J. and Puglis J.M. The  
 stereochemistry of nitrone-diene  
 cycloadditions. Synthesis of the  
 alkaloids of Darlingtonia  
darlingtoniana, 1265  
 Tukada H., Sugawara T., Murata S. and  
 Iwamura H. An irreversible  
 structural change observed for  
 di-(1-naphthyl)-methylene in  
 organic rigid glasses, 235  
 Turecek F see Kovácský P. 1513  
 Turecek F. 1-Phenylethenol: the enol  
 form of acetophenone.  
 Preparation, ionization energy  
 and the heat of formation in the  
 gas phase, 4219  
 Turner D.L see Spavold Z. 3299  
 Turner M.K see Davies H.G. 1089,  
 1093  
 Turro N.J see Lei X. 4671, 4675, see  
 Moss R.A. 4125  
 Turro N.J. and Cha Y. Spectroscopic  
 and chemical evidence for  
 methylene singlet-triplet inter-  
 system crossing in solution, 6149  
 Tutonda M., Vanderzande D., Vekemans  
 J., Toppet S. and Hoornaert G.  
 Diels-Alder reactions of the  
 heterodiene system in 2(1H)-  
 pyrazinones, 2509
- Uchida I., Itoh Y., Namiki  
 T., Nishikawa M. and Hashimoto M.  
 Structure and synthesis of WF  
 3681, a novel aldose reductase  
 inhibitor, 2015  
 Uchida K see Morizawa Y. 1833  
 Uchikawa M., Hanamoto T., Katsuki T.  
 and Yamaguchi M. Asymmetric  
 $[2,3]$ Wittig rearrangement of  
 2'alkenylxyacetamide bearing  
 $\text{trans}-2,5\text{-bis}(\text{methoxymethoxy}-$   
 $\text{methyl})\text{pyrrolidin-1-yl}$  moiety as a  
 chiral auxiliary, 4577  
 Uchikawa M., Katsuki T. and Yamaguchi  
 M. [2,3]Wittig rearrangement of  
 2'alkenylxyacetic acid esters,  
 4581  
 Uchio Y see Fukazawa Y. 1825, see  
 Kiyoaka S. 5629  
 Uchiyama M see Hayakawa Y. 4195,  
 4191  
 Uda H see Okada K. 4493  
 Ueda E see Nishimura J. 4331  
 Ueda K see Nakatsuka S. 2753  
 Ueda M see Cho H. 6377  
 Uehara H see Taguchi T. 6103  
 Ueki M., Sano Y., Sori I., Shinohaki  
 K., Oyamada H. and Ikeda S.  
 Dimethylphosphinyl(Dmp): a new  
 protecting group of tyrosine  
 suitable for peptide synthesis by  
 use of BOC-amino acids, 4181  
 Uemura M., Minami T., Isobe
- T., Hirose T., Moss R.A., Kim K.Y.  
 and Swarup S. Enantioselective  
 and diastereoselective cleavage of  
 amino acid esters in  
 coaggregates of controlled size,  
 1183  
 Uesato S., Ogawa Y., Inouye H., Saiki  
 K. and Zenk M.H. Synthesis of  
 iridiodial by cell free extracts  
 from Rauwolfia serpentina cell  
 suspension cultures, 2893  
 Ugolini A see Hanessian S. 2699  
 Ugozzoli F see Dondoni A. 3915  
 Uhlmann E. and Engels J. Chemical  
 $5'$ -phosphorylation of oligo-  
 nucleotides valuable in automated  
 DNA synthesis, 1023  
 Uhrin D see Proksa B. 5413  
 Ullienius C see Hallnemo G. 395  
 Umani-Ronchi A see Boldrin G.P.  
 4223, see Capobianco M. 1387  
 Umamoto T. and Tomita K. N-Fluoro-  
 pyridinium triflate and its  
 analogs, the first stable 1:1  
 salts of pyridine nucleus and  
 halogen atom, 3271  
 Umamoto T., Kawada K. and Tomita K.  
 N-Fluoropyridinium triflate and  
 its derivatives: useful  
 fluorinating agents, 4465  
 Umezawa H see Kittaka A. 3631, see  
 Nishimura Y. 4323, see Otsuka M.  
 3639, see Sugano Y. 3635  
 Uno T see Nakagawa M. 3235  
 Uneyama K., Nanbu H. and Torii S.  
 Reductive generation of active  
 zero-valent tin in  $\text{SnCl}_2\text{-Al}$   
 system and its use for highly  
 diastereoselective reaction of  
 cinnamyl chloride and aldehydes,  
 2395  
 Unger F.M see Paulsen H. 1135  
 Uosaki Y see Niwa H. 4609, 4605,  
 4601  
 Urabe H. and Kuwajima I. A radical  
 cyclization between enol silyl  
 ethers and aryl or alkenyl  
 bromide moieties, 1355  
 Urata H see Tanaka M. 3165  
 Urch C.J see Trost B.M. 4949  
 Urdea M.S see Horn T. 4705  
 Urdea M.S. and Horn T. Solid-  
 supported synthesis, deprotection  
 and enzymatic purification of  
 oligodeoxyribonucleotides, 2933  
 Urpi F. and Villarrasa J. New  
 synthetic 'tricks'. Advantages of  
 using triethylphosphine in some  
 phosphorus-based reactions, 4623  
 Ushio K see Nakamura K. 3155  
 Ushio K., Inouye K., Nakamura K., Oka  
 S. and Ohno A. Stereochemical  
 control in microbial reduction 4.  
 Effect of cultivation conditions  
 on the reduction of  $\beta$ -keto esters  
 by methylotrophic yeasts, 2657  
 Ushio Y see Kotsuki H. 4213  
 Usui S see Fukazawa Y. 1825, 5621  
 Utaka M see Tsuboi S. 1915  
 Utaka M., Konishi S. and Takeda A.  
 Asymmetric reduction of 2-  
 chloro-3-alken-2-ones with  
 fermenting baker's yeast, 4737  
 Utimoto K see Fugami K. 2161, see  
 Kanemoto S. 3387, see Nozaki K.  
 2007, see Shiragami H. 589, see  
 Tückmantel W. 5617
- Van Bac N see Fall Y. 3611  
 Van Bac N., Fall Y. and Langlois Y.  
 Fragmentation induite par le  
 silicium (II). Synthèse  
 stéréosélective du nonacosadiène-  
 $7(Z),11(Z)$ , phéromone de contact  
 de Drosophila melanogaster, 841  
 Van Duyne G.D see Gerwick W.H. 1979  
 Van Engen D see Pascal R.A., Jr. 4099  
 Van Hoecke M., Borghese A., Penelle  
 J., Merenyi R. and Viehe H.G.  
 Allylic radicals with captodative  
 substitution: easy homolysis of  
 $1,5$ -hexadienes, 4569  
 Van Zyl C.M see Chenard B.L. 2801  
 Vandervesse R see Fort Y. 5487  
 Vandervesse R., Fort Y., Becker S. and  
 Caubère P. Activation of reducing  
 agents. Sodium hydride containing  
 complex reducing agents 22. New  
 coupling reaction with "nickel  
 doped" complex reducing agent,  
 3517  
 Vandervesse R., Lourak M., Fort Y. and  
 Caubère P. Activation of reducing  
 agents. Sodium hydride containing  
 complex reducing agents 23.  
 Symmetrical coupling of nitrogen-  
 containing heterocyclic halides,  
 5483  
 Vanderzande D see Tutonda M. 2509  
 Vankar P.S see Rathore R. 4079  
 Varma R.S see Kabalka G.W. 3843  
 Vather S.M see Cook M.J. 3853  
 Vautier M see Khouki M. 1031, see  
 Zidani A. 857  
 Vedres A see Moldvai I. 2775  
 Veeman G.H see Westerduin P. 1211,  
 6271  
 Veglia A.V see de Rossi R.H. 5963  
 Veith R see Braun M. 179  
 Vekemans J see Tutonda M. 2509  
 Venkatachalam M., Wehrli S., Kubiak  
 G., Cook J.M. and Weiss U. General  
 approach to the synthesis of  
 polyquinanes. Preparation of  
 $\text{trans}, \text{trans}-4,8\text{-diacetoxyl-tetra-}$   
 $\text{cyclo}[9.3.0.1^{\alpha},0^{\beta},1^{\gamma},0^{\delta}]$  tetra-  
 deca-6-one via the aldol  
 approach, 4111  
 Verducci J see Calmes M. 4303  
 Vergne G see Senet J.-P. 6319  
 Verlhac J.-B. and Quintard J.-P.  
 $\text{N,N-Dialkylaminomethyl-}$   
 $\text{tributyltins as precursors of}$   
 $(\text{N,N-dialkylaminomethyl})$  ketones,  
 2361  
 Verne-Mismer J., Ocampo R., Callot  
 H.J. and Albrecht P. Identification  
 of a novel  $C_{12}$ , DPEP petro-  
 porphyrin from Boscan crude oil:  
 evidence for geochemical  
 reduction of carboxylic acids,  
 5257  
 Vernon P see Lathbury D. 6009  
 Verpoorte R see Schripsema J. 2523  
 Verpoorte R., Massiot G., Jacquier  
 M.J., Thépenier P. and Le Men  
 Olivier L. New semidimeric  
 alkaloids from Strychnos dale,  
 239  
 Veschambre H see Bolte J. 565  
 Veyrat C., Wartski L. and Seyden-  
 Penne J. Erratum, 6018  
 Veyrat C., Wartski L. and Seyden-  
 Penne J. Stereoselective  
 synthesis of *cis* or *trans* *N*-  
 phenyl 2-phenyl decahydro-

- quinolin-4 ones by catalyzed hetero-Diels-Alder reaction, 2981
- Viala J** see Manna S. 2679, see Mosset P. 299
- Viallefond P** see Calmes M. 4303
- Viallefond Ph** see Jacquier R. 4735
- Vidal J.** and **Huet F.** Use of alumina for elimination of sulfinic acid from  $\beta$ -aryl- and  $\beta$ -alkylsulfonyl carbonyl compounds, 3733
- Vidal M** see Vincens M. 2267
- Viehe H.G** see Van Hoecke M. 4569
- Villarrasa J** see Garcia J. 639, see Urpi F. 4623
- Villemin D.** and **Racha R.** Activation anionique du phosphite de diethyle par le fluorure de potassium déposé sur alumine, synthèse de phosphonates fonctionalisés, 1789
- Villiersas J** see Amri H. 4307, see Graff M. 1577
- Vincens M., Dumont C.** and **Vidal M.** Transposition signatropique de cétone  $\alpha$ -cyclopropéniques en milieu acide, 2267
- Vioglio S** see Battistini C. 513
- Viret J., Patzelt H.** and **Collet A.** Simple optical resolution of terleucine, 5865
- Virgili P** see Brennai J. 3199
- Viscarcello A.M** see Gatto V.J. 327
- Vismara E., Serravalle M.** and **Minisci F.** Polar effects in free-radical reactions. New selective alkylations of heteroaromatic bases by benzoylperoxide and olefins, 3187
- Vögtle F., Eisen N., Mayenfels P.** and **Knoch F.** In grosse Ringe eingebundene Cope-Systeme, 695
- Vogel P** see Arjona O. 5505, see Ferrari T. 5507, see Houriet R. 37, see Warm A. 5615
- Volkmann R.A** see Brown B.B. 1545, see Pirie D.K. 1549
- Volkova V.V** see Ziegler U. 5825
- Vollhardt K.P.C** see Halterman R.L. 1461
- Volodarsky L.B** see Reznikov V.A. 1625
- Volpe T., Revial G., Pfau M.** and **d'Angelo J.** Synthesis of 2-methyl-1,3-cyclopentanediene monooethylene ketal, 2853
- Von Langen D.J** see Godfrey J.D., Jr. 2793, see Slusarchyk W.A. 2789
- Voss E** see Tietze, L.F. 6181
- Votický Z** see Proksa B. 5413
- Vriesema B.K.** and **Kellogg R.M.** Design of ligands derived from sulfur containing amino acids for enantioselective cross coupling catalyzed by nickel. Intramolecular participation of sulfide, 2049
- Vriesema B.K., ten Hoeve W., Wynberg H., Kellogg R.M., Boesten W.H.J., Meijer E.M.** and **Schoemaker H.E.** Resolution of 2-amino-5-thiomethyl pentanoic acid (Homomethionine) with aminopeptidase from *Pseudomonas putida* or chiral phosphoric acids, 2045
- Vuilhorgne M** see Koli S.M. 2613
- Vukšićević R** see Mihailović M.Lj. 2287
- Vyas D.M., Skonezny P.M., Jenkins T.A.** and Doyle T.W. Total synthesis of ( $\pm$ ) epipodophyllotoxin via a (3 + 2)-cycloaddition strategy, 3099
- Wada M., Ohki H.** and **Akiba K.** Carbon-carbon bond formation with bismuth salt. A chemoselective Grignard-type addition of allyl unit to aldehydes, 4771
- Waddeell S.T** see Viberg K.B. 1553
- Wadsworth W.S., Jr** see Thenappan A.
- 1755
- Waegell B** see Hatem J. 3723, see Rodriguez J. 835
- Wagenhaar A** see Drijfhout J.-W. 2423
- Wagle D.R** see Boze A.K. 5955
- Wagner H** see Choi Y.-H. 5795
- Wagner H.-U** see Gompper R. 691
- Wagner R** see Märkl G. 4015
- Wakabayashi .** see Nokami J.. 5109
- Wakamatsu K** see Nozaki K. 2007
- Wakamatsu T** see Ohnuma T. 219
- Wakamatsu T., Nakamura H., Naka E.** and **Ban Y.** Synthetic studies on antibiotic macrolide: synthesis of the A-segment of elaiophylin, 3895
- Wakamatsu T., Nakamura H., Nishikimi Y., Yoshida K., Noda T., Taniguchi M.** and **Ban Y.** The oxirane ring openings of the dianhydro sugar with high regioselectivity and its use in preparation of two chiral segments of 6-deoxyerythronolide B, 6071
- Wakamatsu T., Oda Y., Fujita H.** and **Shiba T.** Synthesis and stereochemistry of carnosadine, a new cyclopropyl amino acid from red algae *Grateloupia carnososa*, 2143
- Wakefield B.J** see Crowley P.J. 2909
- Waldmann H.J** see Bednarski M.D. 5807
- Waldner A.** Synthese heterocyclischer  $\alpha$ -Oxo-essigsäureester mit neuen Acylanionaequivalent, 6059
- Walker C** see Magnus P. 651
- Walker J.C** see Davies S.G. 3787
- Walker N.P.C** see Hauptmann H. 1315
- Wall W.F** see Davies H.G. 1089
- Wallace T.W** see Clarke P.D. 91
- Walling J.A** see Kraus G.A. 1873
- Walsh E.J., Jr.** and **Stone G.B.** Cyclizations of some furyl acid chlorides, 1127
- Wan P** see Krogh E. 823
- Wan P., Chak B.** and **Li C.** Substituent effects in the photosolvolytic of benzyl derivatives. General structure-reactivity relationships, 2937
- Wang K.K., Nikam S.S.** and **Marcano M.M.** Synthesis of 2-(trimethylsilyl)-1,3-butadienes, 1123
- Wang P.-C** see Tezuka T. 3627
- Wang S.-S** see Balachander N. 4849
- Wang W** see Bailey W.F. 1861
- Wang Y., Li J., Wu Y., Huang Y., Shi L.** and **Yang J.** A facile stereoselective synthesis of leukotriene A<sub>4</sub>(LTA<sub>4</sub>) methyl ester, 4583
- Wannamaker M.W** see Padwa A. 2555, 5617
- Waring P., Eichner R.D., Palni U.T.** and **Mullbacher A.** The isolation and identification of a new metabolite from *Aspergillus fumigatus* related to gliotoxin, 735
- Warm A. and Vogel P.** Expedited synthesis of methyl 8-epi-nonaconate and methyl nonaconate, 5615
- Warner P** see Brown S.L. 623
- Warphoski M.A.** and **Bradford V.S.** Regioselective [2,3] sigma tropic rearrangement to the pyrrolo[3,2-e] indole ring system of CC-1065, 2735
- Warphoski M.A.** Total synthesis of U-71,184, a potent new antitumor agent modeled on CC-1065, 4103
- Warren S** see Aggarwal V.K. 101, see Elliott J. 645, see Greeves N. 259, see Hannaby M. 765, 1069, see Levin D. 2265
- Warren R.N** see Becker A.M. 3431
- Wartski L** see Veyrat C. 2981, 6018, see Zervos M. 2985
- Wasserman H.H., Wolff S.** and **Oku T.** Application of the carbonyl epoxide rearrangement to the formation of dioxabicycloalkanes and alkenes. Synthesis of the *Mus musculus* pheromone, 4913
- Watanabe A** see Yoshioka T. 4335
- Watanabe K** see Tsuboi S. 2643
- Watanabe M** see Sato T. 1621
- Watanabe N** see Itaya T. 4043
- Watanabe S** see Isogai A. 1161, see Taguchi T. 5117
- Watanabe T** see Ogoshi H. 6365
- Watanabe Y** see Hori Y. 5389, see Iida H. 5513, see Mitsudo T. 2125, see Ozaki S. 3157, see Tsuji Y. 377
- Watanabe Y., Ueno Y., Araki T., Endo T.** and **Okawara M.** A novel homolytic substitution on vinylic carbon. A new route to vinyl stannane, 215
- Watanabe Y., Araki T., Ueno Y.** and **Endo T.** A radical deoxygenation of secondary alcohols to hydrocarbons by use of tributyltin hydride, 5385
- Watnick C** see Axenrod T. 11
- Watson R.A** see Streckowski L. 6045
- Watson R.A.** and **Kjonasson R.A.** Conjugate addition to  $\alpha,\beta$ -unsaturated ketones with mixed lithium triorganozincates, 1437
- Watt D.S** see Demir A.S. 5567, see Kometsani T. 919
- Waykole L** see Paquette L.A. 5803
- Weaver E.R** see Slusarchyk W.A. 2789
- Webb M** see Sawada H. 775
- Weber J** see Brinker U.H. 5371
- Webster F.X., Millar J.G.** and **Silverstein R.M.** Cleavage of hindered  $\alpha$ -methylbenzylamides. Intermediates in the resolution of carboxylic acids, 4941
- Webster N.J.G** see Purrung M.C. 3983
- Weedon A.C** see Lombardo D.A. 5555
- Weeks P.D** see Pirie D.K. 1549
- Weems H.B** see Yang S.K. 433
- Weerasinghe D.K** see Moustakis C.A. 303
- Weerawarna S.A** see Mitchell R.H. 453
- Wege D** see Mousounidis J. 2045
- Weglein R.C** see Nickon A. 2675
- Wehle D.** and **Fitjer L.** Conformational isomerism in a fully substituted cyclohexane, 5843
- Wehrli S** see Venkatachalam M. 4111
- Weibel F.R** see Kelly T.R. 6049
- Weigel L.O** see Atkins R.K. 2451
- Weinheimer A.J** see Linz G.S. 4833
- Weinig P** see Reetz M.T. 5711
- Weinreb S.M** see Joyce R.P. 4885, see Remiszewski S.W. 1853
- Weinreb S.M., Demko D.M., Lessen T.A.** and **Demers J.P.** 6-Trimethylsilyl-ethanesulfonyl chloride (ses-Cl): a new reagent for protection of amines, 2099
- Weinstock I.M., Stevenson J.M., Tomellini S.A., Pan S.-H., Utne T., Jobson R.B.** and **Reinhold D.F.** Characterization of the actual catalytic agent in potassium fluoride on activated alumina systems, 3845
- Weiss J** see Dietrich-Buchecker C.O. 2257
- Weiss U** see Venkatachalam M. 4111
- Weith H.L** see Coull J.M. 3991
- Welch S.C., Asserq J.-M.** and **Loh J.-P.** A new reagent for a "one-pot" cyclopentenone annelation, 1115
- Welch W.M** see Pirie D.K. 1549
- Weller D** see Schmidt U. 3495
- Weller D.D.** and **Runyan M.T.** Synthetic studies on morphine: racemization of biaryl intermediates, 4829
- Wenzel P** see Hoppe H.-W. 2459
- Wender P.A.** and **Fisher K.** Seven-

- membered ring synthesis based on arene olefin cycloadditions: the total synthesis of (<sup>1</sup>)-rudmolin, 1857
- Wernerström O see Sundahl M. 1063
- Wensing M see Kauffmann T. 5351
- Weiss G see Bartmann W. 4709
- Westaway K see Gedye R. 279
- Westar R.T see Ziegler F.E. 1221, 1229, 1225
- Westerduin P., Veeneman G.H., Marugg J.E., van der Marel G.A. and van Boom J.H. An approach to the synthesis of  $\alpha$ -L-fucopyranosyl phosphoric mono- and diesters via phosphite intermediates, 1211
- Westerduin P., Veeneman G.H., van der Marel G.A. and van Boom J.H. ...
- Wettlaufer D.G see Posner G.H. 667
- Whangbo M.-H see Bumgardner C.L. 1883
- Wheeler W.J. Wittig methylation of 9,10-didehydro-6-methylergolin-8-one, a novel synthesis of lysergene and its subsequent conversion to agroclavine, 3469
- White A see Lavallée D.K. 3521
- White F.H see Williams D.R. 2195
- White J.D see Pallenberg A.J. 5591, see Schiehser G.A. 5587
- Whitesides G.M see Bednar斯基 M.D. 5807
- Whiting A see Kelly T.R. 6049
- Whiting D.A see Stevens D.R. 4629
- Whitman P.J., Frulla F.F., Temme G.H. and Stuber F.A. Photo-dealkylation of bis(aminophenyl)methanes, 1887
- Whitney S see Lipshutz B.H. 4273
- Whitten J.P see Matthews D.P. 4861
- Wiberg K.B., McClusky J.V. and Schultz G.K. The reaction of a bridged spirocane with Zeise's dimer, [PtCl<sub>2</sub>(C<sub>6</sub>H<sub>5</sub>)<sub>2</sub>]<sub>2</sub>, 3083
- Wiberg K.B., Waddell S.T. and Laidig K. [1.1.1]Propellane: reaction with free radicals, 1553
- Wichmann B see Kauffmann T. 5351
- Widdowson D.A see Castle P.L. 6013, see Gilday J.P. 5525
- Wiechert R see Nickisch K. 5463
- Wiener D.F see Hammond G.B. 4265
- Wieschollek R see Kauffmann T. 5355
- Wijnberg J.B.P.A., Kesselsmans R.P.W. and de Groot A. A new route to selectively protected *cis* 4A-methyl-hexahydronaphthalene-1(2H),7(8H)-diones, 2415
- Wilcox C.S. and Cowart M.D. New approaches to synthetic receptors. Synthesis and host properties of a water soluble macrocyclic analog of Tröger's base, 5563
- Wilcox C.S. and Otsuki R.M. Stereo-selective preparations of ribofuranosyl chlorides and ribofuranosyl acetates. Solvent effects and stereoselectivity in the reaction of ribofuranosyl acetates with trimethylallylsilane, 1011
- Wilcox W.A. and Schuster D.I. Electron transfer photo-oxygenation of 3,5-cycloheptadienones and related compounds, 5331
- Williams A see Harger M.J.P. 2313
- Williams D.J see Heslin J.C. 1403
- Williams D.R. and Gaston R.D. Intramolecular cycloadditions using vinyl sulfide dienophiles, 1485
- Williams D.R. and White F.H. Studies of tetrasubstituted tetrahydrofurans, 2195
- Williams D.Y see Menger F.M. 2579
- Williams G.M. and Rudisill D.E. Stereocontrolled acylation of (*n*<sup>+</sup>-cycloheptatriene)iron tricarbonyl, 3465
- Williams I.H see Davies S.G. 619
- Williams J.M see Barraclough P. 5997, see Cassidy J.F. 4355
- Williams M.D see Koft E.R. 2227
- Williams R.M. and Glinka T. Promising cyclization reactions to construct the ring systems of brevaniamides A,B, 3581
- Williamson C see Ravenscroft P. 747
- Wilson J see Peiter A. 5033
- Wilson J.Z see Rigby J.H. 3329
- Wilson W.D see Strekowski L. 6045
- Winiarski J see Makosza M. 1103
- Springer J.P. A stereoselective synthesis of the azaspiroundecane ring system of (-)-histrionicotoxin from (+)-glutamic acid, 5177
- Winkler J.D., Hey J.P. and Darling S.D. Studies directed towards the synthesis of taxane diterpenes—a remarkable rearrangement, 5959
- Winkler T see von Sprecher G. 4285
- Winterfeldt E see Schomburg D. 5833
- Winzenberg K see Tuariello J.J. 1645
- Wiriachitra P see Naengchomnong W. 2439, 5675
- Wirz J see Fischer G. 1273
- Wishka D.G see Morris J. 803
- Wismeljer A.A see van Gent J. 1059
- Witzczak Z.J. Desulfurization of glycosyl isothiocyanates with tributyltin hydride, 155
- Wittman M.D see Kallmerten J. 2443
- Wolf H.R see Mullen K. 477
- Wolff S see Wasserman H.H. 4909
- Wong C.-H see Durrwachter J.R. 1261
- Wong M.K.Y see Thottathil J.K. 5441
- Wong S see Chong J.M. 5445
- Wong W.C see Cushman M. 2103
- Wongseripatana S see Sakai S. 4585
- Wonnacott A see Greek C. 5277
- Woo N.-T see Prabhakaran P.C. 3815
- Wood C.Y see Ciufolini M.A. 5085
- Wood H.C.S see Aitken D.J. 3417
- Wood W.F see Kubo I. 4277
- Wooden G.P see Senet J.-P. 6319
- Woulfe S.R see Iwagami H. 3095
- Wright J.L.C see Wade R.D. 2559
- Wu P.-L see Chu M. 461
- Wu Y see Wang Y. 4583
- Wu Y.W see Liu K.-T. 3623
- Wüst M see Snowden R.L. 699, 703
- Wubbels G.G., Sevetson B.R. and Kaganove S.N. Effect of  $\alpha$ -cyclodextrin complexation on a general-base-catalyzed photo-smiles rearrangement, 3103
- Wulff G., Szczepan R. and Steigel A. Stereoregulation during the oligomerization of trityl methacrylate, 1991
- Wuts P.G.M. and Jung Y.W. Additions of allylboronates to sulfen-imides, 2079
- Wuts P.G.M. and Bergh C.L. The oxidation of aldehydes bisulfite adducts to carboxylic acids and their derivatives with dimethylsulfoxide and acetic anhydride, 3995
- Wynberg H see Feringa B.L. 997, see Vriesema B.K. 2045
- Xu C see Sun F. 275
- Xu R see Kong F. 5765
- Xu X see Kraft G.A. 2691
- Xu Y. and Li Z. Palladium-catalyzed synthesis of 3-methylene-1-oxa-2-phosphacycloalkane-2-oxide derivatives - the phosphorus analogs of  $\alpha$ -methylene lactones, 3017
- Yadagiri P see Mosset P. 6035
- Yadagiri P., Lumin S., Mosset P., Capdevila J. and Falck J.R. Enantiospecific total synthesis of 8- and 12-hydroxy-eicosatetraenoic acid, 6039
- Yadav J.S see Rama Rao A.V. 3297, see Rao A.V.R. 993
- Yaguchi M see Fujimori K. 1179
- Yamada H see Nishizawa M. 187, 3255
- Yamada S see Ohmori M. 71, see Shinoda M. 87
- Yamada T see Yasuda S. 2023
- Yamada Y see Nagaoaka H. 223, see Tanaka T. 3267, 5641
- Yamaguchi K see Saito I. 6385
- Yamaguchi M see Enomoto M. 4599, see Hanamoto T. 2463, see Ikegami S. 3403, see Otsubo K. 5763, see Tabuchi T. 601, 5237, 3891, 1195, 3889, see Uchikawa M. 4577, 4581
- Yamaguchi M., Hasebe K. and Minami T. A biomimetic synthesis of polycyclic polyoxygenated aromatic compounds via polyketides, 2401
- Yamaguchi M., Hasebe K., Tanaka S. and Minami T. A diastereo- and enantioselective Michael addition of chiral amide enolates to  $\alpha,\beta$ -unsaturated esters: a stereoselective synthesis of (+)-dehydroiridiodiol and (-)-isodehydroiridiodiol, 959
- Yamaguchi R., Moriyasu M. and Kawamisi M. Highly regio- and chemo-selective  $\gamma$ -addition of benzylic group to *N*-alkoxy-carbonylpyridinium salts by means of organotin reagent, 211
- Yamaguchi S see Shizuri Y. 57, see Yasunara F. 4033
- Yamaguchi S., Hanafusa T., Tanaka T., Sawada M., Kondo K., Irie M., Tatemitsu H., Sakata Y. and Misumi S. Synthesis of 29,29,30,30-tetracyanobianthraquinodimethane, 2411
- Yamaguchi T see Shinkai S. 1611
- Yamakawa K see Sato T. 2889, 2379, 2471
- Yamakawa M see Mitsudo T. 2125
- Yamamoto A see Hayashi T. 191
- Yamamoto G. and Oki M. Restricted internal rotation of a *t*-butyl group bonded to an aromatic ring, 49
- Yamamoto H see Esaki T. 1359, see Furuta K. 4507, see Ikeda N. 1175, see Ishihara K. 983, see Maruoka K. 4895, see Mori A. 987, see Naruse Y. 1363
- Yamamoto K., Shibusaki M., Kuroda S., Ejiri E. and Ojima J. A synthesis of a doubly-bridged [24]annulene, 975
- Yamamoto M see Nakatsuka S. 2753
- Yamamoto Y see Akiba K. 5651
- Yamamura K see Miyake H. 3025
- Yamamura S see Nishiyama S. 3643, 4481, 723, see Shizuri Y. 57, 727
- Yamamoto E see Sakai S. 4585
- Yamane H see Corey E.J. 5083
- Yamano S see Sawada M. 5649
- Yamasaki Y see Ishihara T. 2879
- Yamashita A. and Toy A. Regioselectivity of the reaction of a chromium-carbene complex with alkynes: examination of steric

- and electronic factors, 3471  
**Yamashita A.** Synthesis of indenes from alkynes and phenyl amino chromium carbene complexes, 5915  
**Yamashita H** see Shizuri Y. 727  
**Yamashita M** see Imanishi T. 3161  
**Yamashita T** see Kiyooka S. 5629  
**Yamashita Y** see Kubato C. 925  
**Yamasu T** see Kobayashi J. 5755  
**Yamazaki N** see Iida H. 5393  
**Yamazaki S** see Nishinaga A. 2649  
**Yamochi H** see Nakazawa T. 3005  
**Yanada K., Nagano T. and Hirobe M.** Rubredoxin model complex ( $\text{Et}_2\text{N}$ ) $[\text{Fe}(\text{S}_2\text{-o-xylyl})_2]$  as a catalyst in the reduction of aromatic nitro compounds to hydroxylamines, 5113  
**Yang J** see Huang Y. 2179, see Remiszewski S.W. 1853, see Wang Y. 4583  
**Yang L** see Fukuyama T. 6299  
**Yang N.C. and Horner M.G.** The synthesis of pentacyclo[6.4.0.0<sup>2,7</sup>.0<sup>3,12</sup>.0<sup>6,9</sup>]-dodeca-4,10-diene. A pentacyclic dimer of benzene, 543  
**Yang S.K., Mushtaq M., Weems H.B. and Fu P.P.** Absolute configurations of enantiomeric K-region cis-5,6-dihydrodiols of 12-methylbenz[a]anthracene and 7-bromo-12-methylbenz[a]anthracene, 433  
**Yang Z.-Y** see Chen Q.-Y. 1171, 3436  
**Yano T** see Otera J. 4501, 2383  
**Yano Y., Yokoyama T. and Yoshida K.** A model for metabolic activation of dialkylnitrosamines. Oxidative dealkylation of N-nitroso-2-(alkylamino)acetonitrile by flavin mimic in aqueous solution, 5121  
**Yao K** see Hirao T. 929  
**Yao Z** see De Kimpe N. 1707  
**Yasuda A** see Morizawa Y. 1833  
**Yasuda K** see Tomioka K. 3247, 715, 1461  
**Yasuda S., Yamada T. and Hanaoka M.** A novel and stereoselective synthesis of (+)-cephalotaxine and its analogue, 2023  
**Yasuhara F., Yamaguchi S., Kasai R. and Tanaka O.** Assignment of absolute configuration of 2-substituted-1-propanols by  $^1\text{H}$  NMR spectroscopy, 4033  
**Yasukouchi T** see Hayakawa K. 1837  
**Yates P** see Stiver S. 2215  
**Yatsimirska Y.K** see Ryabov A.D. 2169  
**Yeung Lam Ko Y.Y.C** see Peillon P. 4299  
**Yi K.Y** see Kim S. 1925  
**Yokota M** see Sakai S. 4585  
**Yokoyama T** see Yano Y. 5121  
**Yon G.H** see Youn I.K. 2409  
**Yonekawa Y** see Itoh T. 5405  
**Yonemitsu O** see Noda I. 1917, see Okawa Y. 3647, see Tanaka T. 3651  
**Yorgor P** see Prabhakaran P.C. 3815  
**Yoshida J., Murata T. and Isono S.** Electrochemical oxidation of organosilicon compounds I. Oxidative cleavage of carbon-silicon bond in allylsilanes and benzylsilanes, 3373  
**Yoshida J., Sakaguchi K. and Isono S.** Oxidative [3+2] cycloaddition of 1,3-diketone and olefin using electroorganic chemistry, 6075  
**Yoshida J., Funahashi H., Iwasaki H. and Kawabata N.** Palladium-catalyzed coupling of electro-generated allylityl reagents, 4469  
**Yoshida K** see Wakamatsu T. 6071, see Yano Y. 5121  
**Yoshida T., Kambe N., Murali S. and Sonoda N.** A new synthesis of cyclic ureas from aromatic diamines by selenium-assisted carbonylation with carbon monoxide, 3037  
**Yoshida Z** see Miki S. 3669, see Tamaru Y. 955  
**Yoshii E** see Takeda K. 3903  
**Yoshikawa S** see Ishii Y. 365  
**Yoshimura N** see Kotsuki H. 4213  
**Yoshimura S** see Sakaki T. 593  
**Yoshino K** see Sakakibara T. 5409  
**Yoshino T** see Ueoka R. 1183  
**Yoshioka K** see Tamura N. 3749  
**Yoshioka T., Watanabe A., Ishikiri K., Fukagawa Y. and Ishikura T.** A total synthesis of 6-methoxy- $\alpha$ -epi-PS-5 from aminomalonic acid, 4335  
**Youm J.K., Yon G.H. and Pak C.S.** Magnesium-methanol as a simple convenient reducing agent for  $\alpha,\beta$ -unsaturated esters, 2409  
**Youn J.-H. and Hermann R.** A simple and efficient preparation of sulfinyl chlorides from disulfides and sulfonyl chloride, 1493  
**Young J.C., Blackwell B.A. and ApSimon J.W.** Alkaline degradation of the mycotoxin 4-deoxy-nivalenol, 1019  
**Young R.N.** see Gauthier J.Y. 15  
**Young R.N., Champion E., Gauthier J.Y., Jones T.R., Leger S. and Zamboni R.** Stereoselective synthesis of some acetylenic analogues of leukotrienes A and D, 539  
**Ytuarre L** see Suggs J.W. 437  
**Yu D** see Sun F. 275  
**Yue B.Z** see Ponipom M.M. 309  
**Yui K** see Miyamoto H. 2011  
**Yurchenko A.G., Kulik N.I., Kuchar V.P., Djakovskaja V.M. and Baklan V.F.** On the mechanism of liquid phase halogenation of adamantine derivatives, 1399  
**Zajdelowicz M.** Synthesis with organoboranes. 2. Synthesis of  $\alpha$ - and  $\delta$ -damascene, 5135  
**Zamojski R** see Young R.N. 539  
**Zamojski A** see Szarek W.A. 3827  
**Zank G.A** see Rauchfuss T.B. 3445  
**Zappia G** see Reese C.B. 2291  
**Zaragoza R.J** see Abad A. 3289  
**Zard S.Z** see Barton D.H.R. 4309, 1327, see Castagnino E. 6337  
**Zayas J** see Torres M.J. 791  
**Zdiral E** see Binder J. 5829  
**Zecchin G.P** see Paradisi M.P. 5029  
**Zefirov N.S** see Kas'jan L.A. 2921  
**Zefirov N.S., Zhankin V.V., Dan'kov Yu.V., Sorokin V.D., Semerikov V.N., Koz'min A.S., Caple R. and Berglund B.A.** Novel reagents containing hypervalent iodine and their use for electrophilic additions to olefins, 3971  
**Zefirov N.S., Zhankin V.V. and Koz'min A.S.** Stereochemistry of oxidative deiodination leading to formation of covalent perchlorates, 1845  
**Zenit M.H** see Rueffier M. 5603, 923, see Uesato S. 2893  
**Zervos M. and Wartski L.** Influence of the Lewis acid on the nucleophilic addition to  $\delta,\delta$ -disubstituted  $\alpha$ -enones, 2985  
**Zhang Y.Z** see Dai L. 4343  
**Zhang Z.-d** see Fife W.K. 4933, 4937  
**Zhankin V.V** see Zefirov N.S. 1845  
**Zhou L** see Kong F. 5765  
**Zhou Q** see Huang Y.Z. 2397  
**Zhu C** see Chan Y.-Y. 3737  
**Zhu D** see Kong F. 5765  
**Zidani A. and Vautier M.** Chelation assisted transmetalation of trialkyl tin derivatives: C-metallated lithiocarbamates as  $d^3$  reagents for the synthesis of  $\delta$ -hydroxycarbamates, 857  
**Ziegler F.E., Kneisley A. and Wester R.T.** On the extent of racemization of allylic esters during palladium-mediated alkylation with homochiral 3-methyl-Y-butyrolactone derivatives, 1221  
**Ziegler F.E., Stirchak E.P. and Wester R.T.** R-3-Methyl Y-butyrolactone as a template for the synthesis of (+)-invictolide, 1229  
**Ziegler F.E. and Wester R.T.** Regiochemical control in the hemiacetalization of a dihydroxydialdehyde. An application of the use of homochiral 3-methyl-Y-butyrolactones to the construction of homochiral tripropionate units, 1225  
**Ziegler U., Zimmermann G., Ondruschka B., Volkova V.V., Gusein'nikov L.E., Smirnov V.I. and Nametkin N.S.** Matrix isolation and IR spectroscopic study of the pyrolysis products of 2-methyl-3,4-diazapenta-1,3-diene. Cleavage of N=N-bond in unsaturated azo compounds, 5825  
**Zimmermann G** see Ziegler U. 5825  
**Zimmermann P** see Schmidt R.R. 481  
**Zirklin R.E** see Nicolaou K.C. 1881  
**Zipp M** see Sustmann R. 5207  
**Zocher D.H.T** see Ferraz H.M.C. 811  
**Zsély M** see Herczegh P. 1509  
**Zureck A** see Dornberger K. 559  
**Zwanenburg B** see Klunder A.J.H. 2543  
**Zwicker J.W** see Niele F.G.M. 243