

Page missing 1 & 2

AUTHOR INDEX

- Abarca, Belén, 1897, 2790
 Abdelrazek, Fathy Mohamed, 1499
 Abe, Nobuhiro, 2611
 Abe, Takao, 2361
 Acharya, Kunjibattu R., 1817
 Ackland, Mark J., 843, 2705
 Addison, Sally J., 75
 Agarwal, Shiv K., 857
 Ahmad, Naseer-ud-din, 1849, 1859
 Ahmed, Md. Giasuddin, 2559
 Ahmed, S. Asghari, 2559
 Ainscow, R. Barry, 1781
 Akai, Shuji, 605
 Akiyama, Masashi, 2447
 Al-Hassan, Saiba S., 1645, 2145
 Al-Khamees, Hamad, 2001
 Al-Khayat, Isam, 1301
 Alcalá, Herminia, 87
 Alcock, Nathaniel W., 757
 Allevi, Pietro, 595
 Ameer, Farouk, 1143, 2713
 Anastasia, Mario, 595
 Anastasis, Panayiotis, 1127
 Anderson, John R., 1481
 Annunziata, Rita, 251, 255, 2289, 2293
 Antonioletti, Roberto, 1285
 Aoe, Keiichi, 421
 Aoki, Nobuo, 1245
 Aoyagi, Sakae, 2361
 Apparao, Satyam, 641
 Araki, Shuki, 2439
 Araki, Takeo, 2025
 Armstrong, Frank B., 691
 Arnarp, Jan, 535
 Arnold, Anna, 2555
 Arnone, Alberto, 1387
 Arques, José Sepúlveda, 899
 Arraez, Jacinto D., 207
 Artaud, Isabella, 1257
 Atherton, Eric, 2057, 2065
 Atkinson, Robert S., 335, 341, 825, 1967
 Atrash, Butrus, 1217, 1617
 Auret, Barbara J., 1547
 Avent, Antony G., 2129, 2493, 2749
 Azadi-Ardakani, Manouchehr, 1121
 Baker, Raymond, 1509, 2463
 Balasubramanian, Sinnathamby, 159, 1807
 Ballesteros, Rafaél, 1897, 2790
 Bandyopadhyay, Ramrenu, 505
 Banno, Kazuo, 1137
 Baradarani, M. Mehdi, 1503
 Barbour, Robert H., 2475
 Barker, John M., 275
 Barluenga, José, 447
 Barna, Jennifer C. J., 2747
 Barnes, Robert N., 53
 Barton, Derek H. R., 583, 1865, 2109, 2191, 2657, 2667
 Barton, John W., 131, 1407
 Baruah, Jogendra N., 773
 Basak, Bijoy S., 505
 Bateson, John H., 2219
 Battersby, Alan R., 135, 1699
 Baxter, Anthony D., 1803
 Baxter, Robert L., 369
 Baydar, Ahmet E., 415
 Bayliff, Andrew E., 1191
 Beale, Michael H., 1147, 1151
 Begley, Michael J., 861, 2393
 Begtrup, Mikael, 81
 Bellanato, Juana, 2695
 Benati, Luisa, 1577, 2261
 Bendall, Victor I., 1337
 Bernáth, Gábor, 2483
 Bewick, Alan, 1033, 1039, 1045
 Bhatnagar, Neerja Yadav, 2657
 Bhattacharjee, Shakti S., 641
 Bibout, Mohammed El Malouli, 1717
 Bickelhaupt, Friedrich, 2119
 Bieniek, Adam, 213
 Billington, David C., 2007
 Birdsall, Berry, 1349
 Blackburn, G. Michael, 1419, 1935, 2789
 Bladon, Christine M., 1541
 Bladon, Peter, 159
 Blatcher, Philip, 1055
 Blattner, Regine, 2413
 Blazejewski, Jean-Claude, 2657, 2667
 Boar, Robin B., 1201
 Bokel, Michael, 1807
 Bondavalli, Francesco, 1251
 Bongini, Alessio, 203, 935
 Bos, Hendrik J. T., 1957
 Bose, Ajay K., 2045
 Botes, Adrienne L., 2521
 Botes, Dawie P., 2747
 Boutagy, John, 1249
 Boyd, Derek R., 849, 857, 1547, 2123
 Boyd, Gerhard V., 415
 Boyer, Joseph H., 1661
 Branch, Clive L., 1491
 Breining, Tibor, 1015
 Brettle, Roger, 831, 1781
 Breukelman, Stephen P., 1627
 Briggs, Mark A., 795
 Brimacombe, John S., 1067, 1073
 Brink, Harmannus J. ten, 2119
 Britton, George, 601
 Brizzi, Vittorio, 239
 Bromidge, Steven M., 1725
 Brook, Peter R., 2509
 Brooke, Gerald M., 2637, 2643
 Brophy, Bernard V., 2509
 Brown, George R., 2577
 Brown, Lindsay, 1249
 Brown, Michael D., 1623
 Brown, Philip E., 1127
 Bruché, Luca, 1903
 Bruix, Marta, 1209
 Bryant, Laurence R. B., 1177
 Bryce, Martin R., 1191, 1675
 Buchanan, J. Grant, 1425, 1463
 Buck, Judith, 2399
 Buckle, Derek R., 2443
 Buckley, Daniel J., 2193
 Bundle, David R., 2247, 2251
 Bunnett, Joseph F., 2515
 Burgess, Gillian E., 1557
 Burrow, Michael J., 1087
 Burton, Michael, 611
 Buss, Antony D., 2307
 Butsugan, Yasuo, 2439
 Cadogan, J. I. G., 1885, 1891
 Cainelli, Gianfranco, 203
 Calò, Vincenzo, 457
 Camarda, Lorenzo, 1387
 Cameron, Robert, 2133, 2145
 Cameron, Robert J., 1645
 Campbell, Alexander C., 1567
 Campbell, Rose M., 849
 Cardani, Silvia, 255
 Cardillo, Giuliana, 935
 Carpenter, Andrew J., 173
 Carter, Steven R., 2775
 Casara, Patrick, 2201
 Casati, Rosangela, 919, 2389
 Casey, Michael, 741
 Cassidy, E. Sally, 1547
 Castellanos, Maria Luisa, 1209
 Castro, Bertr, 1025
 Cavazza, Marino, 2283
 Ceccherelli, Paolo, 2173
 Cecchetti, Sergio, 493
 Cerfontain, Hans, 661
 Chadwick, Derek J., 173
 Chakraborti, Asit K., 2605
 Challiner, John F., 121, 1177
 Chamberlain, Colin, 2493
 Chambers, Richard D., 53, 1191, 2209, 2215
 Chan, Bock G., 1413
 Chan, Jonathan Y. C., 1447, 1457
 Chang, Lee-Jean, 515
 Charlton, Peter A., 1349
 Charpiot, Brigitte, 2657, 2667
 Chaudhry, Irshad A., 135
 Chen, Yong-Shing, 267
 Cheong, Pauline P. L., 1447
 Cheung, H. T. Andrew, 1249
 Chimichi, Stefano, 1871
 Cholerton, Trevor J., 191
 Chou, Ta-shue, 515
 Christie, Clifford C., 2469
 Christie, Robert M., 2779
 Chung, Margaret W. L., 1773
 Ciller, Juan A., 2581
 Cinquini, Mauro, 251, 255, 2289, 2293
 Ciuffreda, Pierangela, 595
 Clamp, John R., 2775
 Clarke, Paul D., 1747
 Clegg, William, 1019
 Clemo, Nicholas G., 2393, 2399, 2407
 Clephane, Jannette, 275
 Clezy, Peter S., 135
 Cloke, Christopher, 1849
 Cockerill, G. Stuart, 2093, 2101
 Coe, David E., 1033
 Coe, Paul L., 2185
 Coenen, Heinz H., 1941
 Cohyllakis, Demetrios, 1503
 Collins, Peter, 587
 Collins, Peter M., 575
 Colombo, Fabio, 1811
 Colombo, Lino, 251
 Colombo, Roberto, 1811
 Cong, Aimy N. T., 2051
 Cookson, Richard C., 1589
 Cooperwaite, John R., 2637, 2643
 Copp, Frederick C., 2455
 Corbett, R. Edward, 2051
 Cornish, Christopher A., 2585
 Corona, Tiberio, 1607
 Corrie, John E. T., 883
 Costa, Ana M. B. S. R. C. S., 799
 Costa, Brian R. de, 1331
 Cottrell, Ian F., 2463
 Coulter, Peter B., 849, 2123
 Coutts, Ian G. C., 1829
 Cowan, James A., 2435
 Coyle, John D., 121, 1177, 1957
 Cozens, Andrew J., 2159, 2167
 Cozzi, Franco, 251, 255, 2289, 2293
 Crabb, Trevor A., 191, 913, 1381
 Cracknell, Mark E., 115
 Cragg, John E., 1177
 Craig, Donald, 1949
 Cravero, Raquel M., 1227
 Crimmin, Michael J., 541, 549
 Croce, Piero Dalla, 2621
 Crombie, Leslie, 1373, 1393, 1971, 1983, 2425
 Cronjé, Annemarie, 2521
 Crosby, John, 1205, 1517
 Crossley, Roger, 1917, 2479
 Crotti, Paolo, 1607
 Croust, David H. G., 691
 Culbert, Nicholas J., 1829
 Cunningham, Bernadette D. M., 75
 Cuppen, Theo J. H. M., 1819
 Curini, Massimo, 2173
 Curran, Adrian W. C., 1645
 D'Auria, Maurizio, 1285
 Dabbas, Nadira, 2167
 Dalton, Lesley, 1503
 Danielli, Bruno, 923
 Danielli, Roberto, 203
 Danzin, Charles, 2201
 Das, Birendranath, 505
 Davis, Brian R., 2545
 Dawes, Helen M., 899
 Dean, Francis M., 799, 1301
 Delcour, Jan A., 669
 Dell, Anne, 1665
 Dell, Colin P., 747
 Derome, Andrew E., 1811
 Diolet, Christian, 57
 Diyasena, M. N. Champika, 1807
 Dolan, Simon C., 651, 2741
 Dombi, György, 1597
 Dordor, Isabelle M., 871
 Drake, Alex F., 1547
 Drew, Michael G. B., 1049, 1277
 Drewes, Siegfried E., 1143, 2713
 Dunbar, Philip, 969, 1818
 Dunkin, Ian R., 1323
 Durman, John, 1237
 Dusaouy, Yves, 983
 Easton, Christopher J., 153
 Ebine, Seiji, 785
 Edmunds, Richard, 1337
 Edwards, Mark, 1829
 Edwards, Raymond L., 1481
 Eldin, Nehmedo Elshahira Magda Salah, 1499
 Elguero, José, 1717
 Ellames, George J., 2087

- Elliott, Jason, 1237
 Elnagdi, Mohamed Hilmy, 1499
 Engelhardt, Günter, 1597
 Englert, Gerhard, 601
 Epsztajn, Jan, 213
 Everett, Jeremy R., 2599
 Falshaw, Christopher P., 1837
 Farnia, Farnoosh, 575
 Fayos, José, 207
 Feeney, James, 1349
 Ferguson, George, 1337, 1343
 Ferguson, Irene E. G., 1541
 Fernandez, José R., 447
 Ferreira, Daneel, 669, 2521, 2529, 2537
 Ferretti, Maria, 1607
 Ferrier, Robert J., 295, 301, 2413
 Feyer, Alan J., 1565
 Fjandanes, Vito, 1115
 Fiecchi, Alberto, 595
 Finch, Stephen C., 1491
 Finet, Jean-Pierre, 2657, 2667
 Fiorentino, Michele, 457
 Fitton, Alan O., 1747
 Fletton, Richard A., 1523
 Földesi, András, 481
 Fookes, Christopher J. R., 135
 Forsgren, Marianne, 2383
 Foster, Stephen J., 711, 719
 Foubister, Alan J., 2577
 Foulds, Christopher D., 963
 Fraga, Braulio M., 207
 France, Steven N., 1301
 Franzmann, Karl W., 2455
 Fray, M. Jonathan, 2753, 2763
 Fringuelli, Renata, 493
 Fujii, Shinichiro, 2611
 Fujiki, Yasumi, 2337, 2347
 Fujimoto, Yoshinori, 2701
 Fujita, Eiichi, 2361
 Fukumoto, Keiichiro, 927, 1185
 Fukunishi, Koushi, 991
 Fukuyama, Keiichi, 2785
 Fukuzawa, Shin-ichi, 471, 499
 Furusaki, Akio, 327
 Furuyama, Hiroko, 557
 Gainsford, Graeme J., 295
 Galán, José, 2695
 Galli, Carlo, 2515
 Gallos, John, 757
 Gani, David, 1355, 1363, 2790
 Garanti, Luisa, 1903
 Gariboldi, Pierluigi, 521, 595
 Garner, C. David, 1907
 Gasking, David I., 409
 Gate, E. Nicholas, 75
 Gawad, Nagwa A., 335, 341, 825
 Gennari, Cesare, 251
 George, Adrian V., 1277
 Gettins, Anthony F., 2501
 Ghatak, Usha Ranjan, 505, 2605
 Ghosh, Minakshi, 505
 Giacomini, Daria, 203
 Gibbard, Howard C., 723, 731, 735
 Gibbons, William A., 239, 245
 Gibson, Colin L., 1509
 Gilardi, Amilcare, 255, 2289
 Gilchrist, Thomas L., 1737, 1741, 2769
 Gill, Sarbjeet, 437
 Gillon, David W., 1623
 Gilmore, Jeremy, 1343
 Giomi, Donatella, 1871
 Glaze, Alan P., 957
 Glotter, Erwin, 2241
 Göktürk, A. Kayhan, 583
 Gómez-Aldaravi, Estrella, 1897
 Gómez-Aldaravi, Estrella, 2790
 Gómez-Sánchez, Antonio, 2695
 Goddard, Richard J., 1859
 Goff, Dane A., 1099
 Gokou, Celestin Tea, 1875
 Golding, Bernard T., 2007, 2011, 2017
 Gomez, Teresa Hernandez de la Figuera, 899
 González, Antonio G., 207
 Gorst-Allman, Charles P., 703, 1553
 Gottlieb, Hugo E., 2241
 Grayshan, Roger, 2001
 Graziano, M. Liliana, 289
 Gregson, Stephen, 187
 Greig, Derek J., 1205
 Grievson, Brian, 2209, 2215
 Griffin, Roger J., 2267
 Grimshaw, James, 849
 Grove, John Frederick, 861, 865, 1731
 Grundon, Michael F., 197
 Grundy, Julian, 2455
 Guillard, Roger, 983
 Gupta, Amrit S., 1817
 Gupta, Ramesh C., 525
 Guziec, Frank S., 107
 Guzmán, Francisco, 87
 Hackler, László, 1597
 Hadden, William F., 1315
 Hadfield, John A., 1829
 Hagiwara, Hisahiro, 283, 1157
 Hai, Ton That, 135
 Haines, Alan H., 795
 Haines, Stephen R., 2413
 Hall, C. Richard, 233
 Hallberg, Anders, 969, 1818
 Hamilton, Robert, 1547, 2123
 Han, Gi Rin, 267
 Hanquet, Bernard, 983
 Hanson, Alfred W., 441
 Hanson, James R., 331, 647, 843, 1311, 2129, 2493, 2705, 2749
 Harada, Nobuyuki, 1845
 Haraldsson, Martin, 535
 Hardy, Robert, 1373
 Harger, Martin J. P., 1787, 2651
 Harnden, Michael R., 1425
 Harris, Stuart A., 957
 Harrit, Niels, 907, 1818
 Hasegawa, Hitoshi, 769
 Hashi, Nur A., 1837, 2501
 Hashimoto, Chiyomi, 941
 Hashimoto, Masami, 927
 Hashimoto, Yoshinobu, 2333
 Hashiyama, Tomiki, 421
 Hata, Tsujiaki, 997
 Hatton, Ian K., 1849, 1859
 Hattori, Kazue, 1327
 Haws, Edmund J., 121, 1177
 Healy, Maria de Sousa, 973
 Heatley, Frank, 1503
 Hegde, Vinod R., 2045
 Heitz, Annie, 1025
 Heller, Harry G., 957
 Hermeicz, István, 1015
 Hertzberg, Robert P., 1295
 Hewitt, Christopher D., 53
 Hewson, Alan T., 2625
 Hickmott, Peter W., 2033, 2559
 Hickson, Clare L., 1885, 1891
 Hintermeister, Nalukui Mwisya, 969, 1818
 Hira, Junko, 991
 Hirao, Akira, 2039, 2615
 Hiratsuka, Naohiro, 1001
 Hirota, Kosaku, 1137
 Hitchcock, Peter B., 843, 1363, 2493, 2749
 Hodgson, Simon T., 2375
 Hofstra, Rob G., 561
 Holdup, David W., 651
 Hollerton, John, 1803
 Hollinshead, David M., 2375
 Holloway, Stephen J., 1393, 2425
 Holm, Arne, 907, 1818
 Holmes, Andrew B., 1161
 Holmes, David, 275
 Honda, Noriaki, 565
 Honda, Toshio, 557, 2151
 Honna, Takaji, 2417
 Hoole, Robyn, 2713
 Hooper, Malcolm, 1583
 Hopton, David, 461, 1217, 1617
 Horaguchi, Takaaki, 1001
 Horak, R. Marthinus, 345, 357, 363
 Hori, Mikio, 2333
 Hoshita, Takahiko, 2701
 Hough, Leslie, 1447, 1457
 Houghton, Peter G., 1471
 Houston-McMillan, Mark S., 1143
 Howard, Judith A. K., 1859
 Hsu, Shih-Ying, 267
 Huddleston, Patrick R., 275
 Hull, William E., 2529
 Humber, David C., 1523
 Hunter, Daniel, 1081, 2709
 Hursthouse, Michael B., 899
 Husband, James B., 1891
 Hutchison, Michael, 651
 Ihama, Mikio, 1527
 Ihara, Masataka, 1185
 Ihara, Rie, 677
 Iida, Hideo, 261
 Iizuka, Yasuko, 765
 Ikeda, Masazumi, 379, 605
 Ikeda, Takashi, 785
 Ikekawa, Nobuo, 2701
 Ila, Hiriyakkanavar, 641, 1289
 Imai, Eiji, 2333
 Imam, S. Haider, 1583
 Inch, Thomas D., 233
 Inoue, Hirozumi, 421
 Inoue, Yoshinori, 2361
 Isaacs, Neil S., 1277
 Ishibashi, Hiroyuki, 605
 Ishige, Marie, 2353
 Ishii, Hisashi, 2353
 Ishikawa, Tsutomu, 2353
 Ishikawa, Yuichi, 565
 Ishitani, Osamu, 1527
 Iskander, George M., 2769
 Ito, Koichi, 2039, 2615
 Ito, Masatoki, 903
 Itsuno, Shinichi, 2039, 2615
 Iversen, Tommy, 2247
 Iwabuchi, Jun, 1845
 Iwade, Hiroshi, 2701
 Iwaki, Masaaki, 2789
 Iwasawa, Yoshikazu, 903, 2369
 Jackson, David A., 525
 Jankowski, A. Kayhan Goktürk Krzysztof, 2109
 Jansson, Per-Erik, 2383
 Javed, Tariq, 1803
 Jenneskens, Leonardus W., 2119
 Jennings, W. Brian, 849, 857
 Johncock, William, 957
 Johns, Nicholas, 1487
 Johnson, Martin R., 1637
 Johnson, Matthew P., 71
 Johnson, Stephen J., 2545
 Jones, A. Stanley, 199
 Jones, Christopher, 1665
 Jones, D. Neville, 145
 Jones, Gurnos, 1897, 2719, 2790
 Jones, Haydn F., 795
 Jones, John H., 1811
 Jones, Michael A., 799
 Jones, Nigel F., 1637
 Jones, R. Alan, 899
 Jones, Richard H., 2753
 Joule, John A., 1503, 1907
 Judkins, Brian D., 621, 1967
 Jung, Michel, 2201
 Junjappa, Hiriyakkanavar, 641, 1289
 Jupp, Philip A., 913
 Kálmán, Alajos, 481
 Kabat, Marek. M., 1601
 Kabli, Reda A., 115
 Kai, Yashushi, 677
 Kaitner, Branko, 1337, 1343
 Kaji, Kenji, 1171
 Kametani, Tetsuji, 557, 927, 1185, 2151
 Kamimura, Takashi, 997
 Kamphuis, Johan, 1957
 Kanda, Naoki, 2615
 Kandeel, Zaghoul El-Shahat, 1499
 Kapon, Moshe, 2559
 Kasai, Nobutami, 677
 Katakai, Ryoichi, 765
 Kataoka, Tadashi, 2333
 Katayama, Sadamu, 183
 Kato, Hiroshi, 1245
 Katritzky, Alan R., 1773, 2155, 2159, 2167
 Kawada, Yuzo, 1845
 Kawamura, Yasuhiko, 1245
 Kawanabe, Eri, 2353
 Kay, I. Trevor, 587
 Kaye, Perry T., 1143, 2713
 Kelly, Noel M., 2209
 Kenne, Lennart, 2383
 Kenner, George W., 461
 Kennwell, Peter D., 871, 2299
 Khan, Hassan A., 101, 819
 Khatri, Surenda G., 1295
 Kibayashi, Chihiro, 261
 Kiguchi, Toshiko, 941
 Kihira, Kenji, 2701
 Kimura, Kazuhiko, 2333
 Kinoshita, Masayoshi, 1327
 Kirby, Gordon W., 405, 883, 887, 1437, 1443, 1487, 1541, 1961, 2469, 2489
 Kirk, David N., 35
 Kirk, Julian R., 1191
 Kirson, Isaac, 2241
 Klauke, Erich, 53
 Klinkert, Graham, 621
 Knight, David W., 1373
 Knutsen, Lars J. S., 621
 Kobayashi, Tomoshige, 1401
 Kocienski, Philip, 1879, 2093, 2101
 Kojo, Shosuke, 991
 Kolodziej, Herbert, 2537
 Kondo, Masaji, 2497
 Kosmirak, Mario, 963, 1747
 Kostermans, Gerardus B. M., 2119
 Kotali, Antigoni, 2083
 Kotera, Keishi, 421
 Koyama, Kikuhiko, 677
 Kraus, Wolfgang, 1807
 Kruger, Helène, 2747
 Kubo, Yasuo, 2025
 Kulagowski, Janusz J., 2725, 2733
 Kumagai, Toshio, 2361
 Kumar, N. Savitri, 685
 Kundu, Nitya G., 1295

- Kurobe, Hiroshi, 927, 1185
 Kurzer, Frederick, 311
 Laarhoven, Wim H., 1819
 Laborde, Maria de los Angeles, 1227
 Lai, Ting-Fong, 1921
 Laing, Michael, 703
 Lamberts, Joseph J. M., 1819
 Lane, Simon, 893
 Lapham, David J., 131
 Larsen, Bjarne Due, 907, 1818
 Lavie, David, 323
 Lawson, Alexr M., 35
 Lee, D. Victor, 1407
 Lee, Hiok-Huang, 453
 Leet, John E., 1565
 Lesma, Giordano, 923
 Lester, David J., 2657
 Letcher, Roy M., 1921
 Lewis, Norman J., 1849, 1859
 Ley, Steven V., 1949, 2375
 Lhoste, Jean-Marc, 61, 221
 Liapis, Maria, 815
 Lidert, Zev, 383
 Lindley, Peter F., 415
 Lipscomb, Elizabeth L., 691
 Litinas, Konstantinos E., 429
 Liu, Chi Fu, 327
 Liverton, Nigel J., 1589
 Llinás, Montserrat, 1209
 Lönngren, Jörgen, 535
 Lóránd, Tamás, 481
 Lochead, Alistair W., 1541
 Lockhart, Joyce C., 1019
 Lock, Bernard, 61, 221
 Lopez, Luigi, 457
 Low, Caroline M. R., 2375
 Lowe, Gordon, 391
 Luis, Javier G., 207
 Lundin, Robert E., 1315
 Lyall, William J. S., 1645
 Macchia, Franco, 1607
 Maciej, Thomas W., 1419, 1935, 2789
 Mackinnon, John W. M., 405, 883, 887, 1437, 2469
 MacLeod, John K., 685
 MacMillan, Jake, 651, 837, 1849, 1859, 2177, 2741
 MacPherson, David T., 2625
 Maeda, Hiroshi, 605
 Maes, Catherine M., 2489
 Maidment, Maurice S., 1567
 Majeed, Amara J., 1195
 Mak, Thomas C. W., 1921
 Makk, Nandor, 1331
 Mallinson, Paul R., 405
 Manabe, Osamu, 565
 Manhas, Maghar S., 2045
 Mann, John, 1049, 1249
 Manners, Gary D., 2075
 Manzocchi, Ada, 2389
 Marchese, Giuseppe, 1115
 Marcotullio, Maria Carla, 2173
 Marcus, Wafa Y., 1127
 Martin, Alfonso, 1693
 Martin, Nazario, 2581
 Martelli, Giorgio, 203
 Martin, Arnold R., 969, 1818
 Martin, Dieter, 1007
 Martin, M. Rosario, 1209
 Maruyama, Kazuhiro, 2025
 Masaki, Yukio, 1171
 Mascagni, Paolo, 239, 245
 Masuda, Hirofumi, 2039
 Matkin, David A., 1301
 Matsushima, Yoko, 2353
 Matsuura, Teruo, 419
 Matsuzaki, Kei, 2785
 Matulić-Adamić, Jasenka, 779
 McAlees, Alan J., 441
 McCague, Raymond, 383
 McCormick, Joan E., 93
 McDonald, Edward, 135, 1699
 McDonnell, Martin B., 1019
 McDougall, Duncan C., 1541
 McElhinney, R. Stanley, 93
 McElroy, Andrew B., 1237
 McGregor, Christopher J., 369
 McGuigan, Christopher, 199
 McLean, Henry, 405, 1437, 1961, 2469
 McKerverey, M. Anthony, 2193
 McLaughlin, Leo M., 35
 McLean, David, 1437, 1443, 1961
 McLean, Keith A., 1463
 McNab, Hamish, 1885, 1891
 McOmie, John F. W., 115
 McPhail, Andrew T., 1693
 McPherson, Michael, 1205
 Mészáros, Zoltán, 1015
 Meakins, G. Denis, 1623, 1627
 Meanwell, Nicholas A., 145
 Mellor, John M., 871, 1033, 1039, 1045
 Memon, M. Usman, 315
 Mendoza, Javier de, 1209
 Merlino, Lucio, 1387, 2555
 Meskó, Eszter, 1597
 Metcalf, Brian, 2201
 Meth-Cohn, Otto, 1793
 Mibu, Nobuko, 2611
 Mico, Antonella De, 1285
 Midgley, John M., 1331, 1337
 Miki, Yasuyoshi, 379
 Milani, Fulvia, 919
 Milano, Dorys, 1045
 Miles, Nicholas J., 2299
 Millar, Alan, 1425
 Minale, Luigi, 655
 Minamoto, Katsumaro, 2337, 2347
 Minard, Robert D., 1565
 Minemura, Kayoko, 1185
 Mirza, Sohail M., 145
 Mispelter, Joël, 61, 221
 Mitani, Michiharu, 677
 Miyano, Seiji, 2611
 Miyauchi, Yohi, 1527
 Miyaura, Norio, 1431
 Miyazaki, Koji, 2039
 Mizuya, Jiro, 2439
 Modi, Najmuddin T., 1331
 Moerlein, Stephen M., 1687, 1941
 Momenteau, Michel, 61, 221
 Monforte, Alejo, 1681
 Montevocchi, P. Carlo, 1577, 2261
 Moody, Christopher J., 71, 383, 723, 731, 735, 741, 2505, 2725, 2733
 Moore, Clive, 1793
 Moore, Geoffrey A., 461
 Morgan, E. David, 399
 Morgan, Phillip J., 691
 Morimoto, Masamichi, 305
 Morinaga, Kenichi, 785
 Morley, John O., 39
 Morpeth, Alan G., 2637
 Morzycki, Jacek W., 583
 Moss, Stephen, 2779
 Motherwell, William B., 583, 1865, 2657, 2667
 Mouat, Deborah J., 2719
 Moutevelis-Minakakis, Panagiota, 2277
 Mulloy, Barbara, 1665
 Mundy, Ann P., 601
 Murray-Rust, Peter, 2033
 Musto, Donald R., 1829
 Muthukuda, P. Mangala, 685
 Nachman, Ronald J., 1315
 Nagao, Yoshimitsu, 2361
 Nagase, Yunosuke, 2361
 Naito, Takeaki, 487, 941
 Nakade, Hideo, 2347
 Nakahama, Seiichi, 2039, 2615
 Nakano, Michio, 2039, 2615
 Nakano, Tatsuhiko, 1693
 Nakashita, Yoshihiko, 183
 Nasini, Gianluca, 1387
 Naso, Francesco, 1115
 Nassereddin, Ishaq K., 2007, 2011, 2017
 Natalini, Benedetto, 493
 Neill, David C., 849
 Neilson, Douglas G., 1081, 2709
 Nemoto, Hideo, 927, 1185
 Nesi, Rodolfo, 1871
 Neszemélyi, András, 481
 Newington, Ian M., 2087
 Newton, Roger F., 191, 621, 1637, 1803
 Ng, Soon, 453
 Nguyen, Dung Le, 1025
 Nicolai, Neri, 239, 245
 Nicholson, Sydney H., 1645, 2133, 2145
 Nicolaidis, Demetrios N., 429
 Nicotra, Francesco, 521
 Ninomiya, Ichiya, 487, 941
 Nishi, Takao, 1, 7, 19, 27
 Nishiguchi, Yoshino, 487
 Nishimura, Hiroaki, 163
 Nishio, Takehiko, 2497
 Nishioka, Itsuo, 163
 Nitta, Makoto, 1401
 Nivard, Rutger J. F., 561
 Nomura, Mototeru, 991
 Nonaka, Gen-ichiro, 163
 Norman, Julie A., 1087
 Nose, Taisuke, 903, 2369
 Nytoft, Hans Peter, 81
 O'Hanlon, Peter J., 541, 549
 O'Leary, Margaret A., 1311
 Oates, Jane E., 1665
 Ogasawara, Kunio, 305, 2447
 Ogawa, Kazuo, 2417
 Ogawa, Seiichiro, 903, 2369
 Ogawa, Takao, 2369
 Ogawa, Takuji, 2025
 Ohba, Shigeru, 903
 Ohta, Kazuchika, 2785
 Ohta, Shunsaku, 2417
 Oikawa, Yuji, 1, 7, 19, 27
 Okamoto, Masao, 2417
 Okamoto, Yoshio, 1845
 Okano, Masaya, 373, 499
 Okazaki, Yoshinobu, 677
 Okuda, Takuo, 315
 Oliver, Stephen N., 957
 Omote, Yoshimori, 2497
 Omuaru, Victor O. T., 1343
 Onan, Kay D., 323, 1693
 Orabi, Mohamed O. A., 1301
 Orena, Mario, 935
 Orito, Kazuhiko, 1431
 Ossana, Andrea, 2167
 Owa, Masaki, 2615
 Owada, Hiroto, 373
 Owton, W. Martin, 1033, 1039, 1045
 Párkányi, László, 481
 Pac, Chyongjin, 1527
 Palmisano, Giovanni, 923
 Panunzi, Achille, 1095
 Panunzio, Mauro, 203
 Papageorgiou, Vassilios P., 2083
 Papoula, M. Teresa Barros, 2657, 2667
 Parrott, Maxwell J., 461, 1217, 1617
 Parton, Brian, 1737, 1741
 Patel, Ansuya, 191
 Patel, Arvind C., 1201
 Patel, Dalpat L., 1121, 1911
 Patel, Premji J., 1195
 Patel, Shailesh K., 35
 Patil, Suresh R., 499
 Paton, R. Michael, 1205, 1517
 Pattenden, Gerald, 2393, 2399, 2407
 Patwardhan, Sarita A., 1817
 Paul, Alan J., 1323
 Paulsen, Hans, 1463
 Pauson, Peter L., 1233
 Pavlidis, Vasilios H., 1829
 Pérez, Miguel A., 87
 Pearson, Anthony J., 267
 Pearson, Michael J., 1491, 1927, 2789
 Pegel, Karl H., 703, 1711
 Pellicciari, Roberto, 493
 Pelter, Andrew, 587
 Perales, Aurea, 207
 Perry, David H., 115
 Pettett, Michael G., 1161
 Phadnis, Anil P., 1817
 Photaki, Iphigenia, 2277
 Piacenza, Lorenzo P. L., 703
 PIANCATELLI, GIOVANNI, 1285
 Pick, John H., 1567
 Pietra, Francesco, 2283
 Pietrzak, Barbara, 1049
 Pillai, T. Perumal, 1661
 Pinori, Masimo, 2057
 Pintye, János, 2483
 Pipe, David F., 1471
 Piper, Susan E., 1249
 Pitchford, Andrew T., 2713
 Pizza, Cosimo, 655
 Podányi, Benjamin, 1015
 Poli, Giovanni, 251, 255
 Porter, Lawrence J., 1413
 Pradère, Jean-Paul, 1875
 Preston, Peter N., 39
 Prior, Michael J., 1949
 Proctor, George R., 2677
 Purkayastha, Makhan L., 1289
 Que, Yoon-Ten, 453
 Quick, Stephen J., 893
 Quiniou, Hervé, 1875
 Quinn, Alison M., 2219
 Quinteiro, Margarita, 1681
 Qureshi, Shireen, 875, 1557
 Rabie, Christiaan J., 345, 363, 1553
 Ragoussis, Nikitas, 815
 Ragoussis, Valentine, 815
 Rahman, Kher M. M., 1067, 1073
 Ramage, Robert, 461, 1217, 1617
 Ranise, Angelo, 1251
 Ranzi, Bianca M., 521
 Rapley, Patricia A., 1957
 Ratcliffe, Arnold H., 843, 2705
 Ratcliffe, Steven J., 1767
 Rathbone, Daniel L., 1811
 Ravenscroft, Paul D., 2463
 Ray, Siddhartha, 505
 Ray, Tapan, 267
 Reddy, K. Sambi, 419

- Rees, Charles W., 383, 711, 719, 723, 731, 735, 741, 1471, 2725, 2733
- Reese, Paul B., 331, 647
- Renzi, Augusto De, 1095
- Rest, Antony J., 973
- Restelli, Angelo, 2289, 2293
- Riccio, Raffaele, 655
- Rich, Daniel H., 245
- Richards, David J., 1829
- Richardson, Anthony C., 1447, 1457
- Richardson, Reginald S., 461
- Rico, Manuel, 2695
- Rise, Frode, 1997
- Riva, Renata, 923
- Roberts, Gordon C. K., 1349
- Roberts, Stanley M., 1523, 1803
- Roberts, Tony G., 1953
- Robertson, Fiona M., 1517
- Robins, David J., 101, 611, 819, 2475, 2489
- Robinson, David H., 2133, 2145
- Robinson, David R., 1645
- Robinson, John A., 1699
- Robinson, Malcolm L., 1301
- Rockell, Caroline J. M., 2443
- Rodios, Nestor A., 1167
- Roe, Anthony M., 1627
- Rogers, Colin B., 1711
- Rogers, Norman H., 541, 549
- Ronchetti, Fiamma, 521
- Ronzini, Ludovico, 1115
- Rooyen, Petrus H. van, 1793
- Rosa, Concetta La, 2621
- Rosenkilde, Steen, 907, 1818
- Ross, John F., 1517
- Rossi, Claudio, 239
- Roux, David G., 669, 2521, 2529, 2537
- Row, L. Ramacha, 419
- Row, Tayur N. Guru, 1817
- Rowe, David J., 131, 1907
- Roy, Subhas C., 505
- Rúveda, Edmundo A., 1227
- Rubio, Maria J., 1681
- Rubio, Olga, 2159, 2167
- Runnegar, Maria T. C., 2747
- Rushton, Philip, 1533
- Russell, David R., 1967
- Russo, Giovanni, 521
- Rutherford, Mary J., 197
- Rzepa, Henry S., 1277
- Saba, Antonio, 2159
- Sadler, Ian H., 2129
- Saha, Bijali, 505
- Sahai, Mahendra, 2241
- Sahota, Ravjit Inder K., 437
- Sain, Bir, 773
- Sainsbury, Malcolm, 1195
- Saito, Yoshihiko, 903
- Sakai, Toshito, 2785
- Sakuma, Kazuhiko, 1171
- Salem, Salem M., 1121
- Samat, André, 1717
- Sammes, Michael P., 1773
- Sammes, Peter G., 963, 1725, 2299
- Sanders, Jeremy K. M., 2435
- Sandhu, Jagir S., 773
- Sandri, Sergio, 935
- Santaniello, Enzo, 919, 2389
- Santikarn, Sitthivet, 2747
- Saporito, Antonio, 1095
- Sarfati, S. Robert, 57
- Sarti-Fantoni, Piero, 1871
- Sasaki, Tadashi, 2337, 2347
- Sato, Kazumi, 605
- Sato, Masaru, 785
- Satyanarayana, Gutta O. S. V., 505
- Scala, Antonio, 595
- Scarpati, Rachele, 289
- Scettri, Arrigo, 1285
- Scheeren, Hans W., 561
- Schenone, Pietro, 1251
- Schmidt, Peter, 301
- Schmitz, Scott A., 1295
- Schneider, Gyula, 1597
- Schwalbe, Carl H., 2267
- Scolastico, Carlo, 251, 255
- Scopes, David I. C., 621, 1911
- Scott, A. Ian, 369
- Scriven, Eric F. V., 1911
- Seal, Alpana, 505
- Sedgeworth, Janette, 2677
- Seela, Frank, 2573
- Seki, Yoshikatsu, 1431
- Sekine, Mitsuo, 997
- Sellars, Alan, 2185
- Senda, Shigeo, 1137
- Seoane, Carlos, 1681, 2581
- Serneels, Edward J., 669
- Setchell, Kenneth D. R., 35
- Seyer, René, 1025
- Shah, Prakash Z., 75
- Shamma, Maurice, 1565
- Sharma, Narain D., 2123
- Sharma, Ram Prakash, 1437
- Sharma, Vijay K., 437
- Shaw, Gordon, 187, 875, 1557
- Shepherd, Michael K., 1407, 2689
- Shepherd, Robin G., 1917, 2479
- Sheppard, Robert C., 2057, 2065
- Sherry, Lesley J. S., 1967
- Shibib, Sa'ad M., 831, 1781
- Shimizu, Hiroshi, 2333
- Shingu, Tetsuro, 315
- Shinkai, Seiji, 565
- Shiomi, Niro, 2337
- Shopper, Charles W., 45, 1565
- Sierra, Manuel González, 1227
- Sikdar, Sikha, 1295
- Silvester, Michael J., 53
- Simpkins, Nigel S., 1949
- Singh, Gurdeep, 1289
- Singh, Serjinder, 437
- Škarić, Vinko, 779
- Smale, Terence C., 2219, 2235
- Smalley, Robert K., 1121, 1911
- Smart, Lesley E., 121
- Smith, Adrian, 1787, 2651
- Smith, Edward H., 747
- Smith, Kevin M., 1099
- Smith, Richard J., 2747
- Soai, Kenso, 769
- Sohár, Pál, 2483
- Soilleux, Stephanie L., 1381
- Somogyvari, Arpad F., 1337
- Sotheeswaran, Subramaniam, 159, 1807
- Soto, José L., 87, 1681, 2581
- Southgate, Robert, 2219, 2265
- Spagnolo, Piero, 1577, 2261
- Spinelli, Antonietta Castaldi, 1693
- Spunta, Giuseppe, 203
- Squillace-Greco, Olinda, 655
- Šraga, Ján, 1233
- Stájer, Géza, 2483
- Stanforth, Stephen P., 2657, 2667
- Stark, W. Marshall, 2489
- Stein, Ross L., 1767
- Steker, Herbert, 2573
- Stevens, John A., 1737, 1741
- Stevens, Malcolm F. G., 1533, 2267
- Stevenson, Donald F. M., 1567
- Steyn, Pieter S., 345, 357, 363, 1553, 2489
- Stirling, Irene, 1645
- Stobie, Alan, 2087
- Stokes, (the late) David P., 2501
- Stoodley, Richard J., 525
- Street, Leslie J., 1725
- Strydom, Peter J., 957
- Stuart, Alex, 1645
- Stubbs, Michael E., 2123
- Suami, Tetsuo, 903, 2369
- Suckling, Colin J., 1323, 1645, 2133, 2145
- Suginome, Hiroshi, 327, 1431
- Sultanbawa, M. Uvais S., 159
- Sumoto, Kunihiko, 2611
- Surendrakumar, Sivagnanasunderam, 159, 1807
- Suschitzky, Hans, 1747, 1911
- Suschitzky, John L., 1747
- Sutherland, Ian O., 1637
- Suzuki, Nahoko, 785
- Suzuki, Tsuneo, 1001
- Suzuki, Yukio, 2151
- Svensson, Arne, 969, 1818
- Swain, Christopher J., 1509, 2463
- Swain, Steven, 391
- Swan, George A., 1757
- Szabó, Angela E., 2483
- Szabó, Dezso, 481
- Szabó, Ladislav, 57
- Szajda, Maria, 2155
- Tada, Yukiko, 487
- Takano, Seiichi, 305, 2447
- Takeda, Mikio, 421
- Takemura, Shoji, 379
- Takeuchi, Hiroshi, 677
- Tamura, Shigeru, 1001
- Tamura, Yasumitsu, 605
- Tanaka, Kiyomi, 2333
- Tanaka, Toshihiko, 2347
- Tapolczay, David J., 1509
- Tatlow, John Colin, 2185
- Tavale, Sudam S., 1817
- Taylor, Alan, 441
- Taylor, David A., 837
- Taylor, Giles A., 1181, 1837, 2501
- Taylor, Graham, 1191
- Taylor, Richard J. K., 893
- Tedeschi, Piero, 1871
- Terada, Tadafumi, 2417
- Terao, Keiji, 373
- Tezuka, Takahiro, 2789
- Thomas, C. Barry, 1087
- Thomas, David W., 1811
- Thomas, Eric J., 2753, 2763
- Thomas, Richard, 1249
- Thompson, Lorna D., 399
- Thompson, Mervyn, 135
- Thompson, Norris T., 2123
- Thomson, Gordon A., 369
- Thomson, Ralph A., 2051
- Threadgill, Michael D., 75
- Tittelbach, Franz, 1007
- Tóth, Gábor, 1015
- Tohohoj, Toshiaki, 2353
- Tokuda, Masao, 327
- Toma, Lucio, 521
- Toma, Stefan, 1233
- Tomasini, Claudia, 935
- Tonkinson, Daryl J., 2719
- Toshimitsu, Akio, 373
- Toupet, Loïc, 1875
- Toyokuni, Tatsushi, 2369
- Treadgold, Richard, 2093, 2101
- Tso, Hsi-Hua, 515
- Tsubuki, Masayoshi, 557
- Tsukube, Hiroshi, 615
- Tsunetsugu, Josuke, 785
- Turley, Fiona, 1547
- Turner, Ralph W., 1301
- Tyler, John W., 1927, 2599, 2789
- Tyler, Peter C., 295, 301
- Uda, Hisashi, 283, 1157, 1845
- Uda, Yoriaki, 2337
- Uematsu, Takayoshi, 1261, 1271
- Uemura, Sakae, 373, 471, 499
- Undheim, Kjell, 1997
- Uno, Tomoko, 677
- Uragi, Masumi, 379
- Usabillaga, Alfredo, 1693
- Valente, Edward, 1323
- Varma, Rajender S., 799, 1301
- Varvoglis, Anastasios, 757
- Veen, Reinout H. van der, 661
- Velde, Vincent V., 323
- Venkateswarlu, Revuru, 587
- Verdini, Antonio S., 697
- Viout, Paulette, 1257
- Viscomi, Giuseppe C., 697
- Vitagliano, Aldo, 1095
- Vleggaar, Robert, 345, 357, 363, 1553, 2489
- Wadsworth, Harry J., 1311
- Wagle, Dilip R., 2045
- Waight, Eric S., 703
- Wakefield, Basil J., 1803
- Walker, Richard T., 199
- Walton, Adrial R., 415
- Warburton, Dennis, 747
- Ward, Peter, 2065
- Ward, Robert S., 587
- Waring, Anthony John, 631
- Warren, Stuart, 1055, 1237, 2307, 2585
- Watanabe, Toshio, 183
- Watanabe, Yohya, 261
- Watt, Robert A., 1331
- Weakley, Timothy J. R., 2709
- Weeks, Charles M., 703
- Wessel, Hans-Peter, 2247, 2251
- Wessels, Philippus L., 2747
- Westwood, Robert, 2299
- Whalley, Anthony J. S., 1481
- Whalley, W. Basil, 1331, 1337, 1343, 2455
- Wharton, Clifford J., 809, 1565
- Wheeler, Kevin J., 831
- Whitham, Gordon H., 409, 1623, 1949, 1953
- Whittal, John, 957
- Wicha, Jerzy, 1601
- Wightman, Richard H., 1425, 1463
- Wilkins, Alistair L., 2051
- Williams, David J., 525, 711, 2375, 2763
- Williams, Dudley H., 949, 2747
- Williams, J. Michael, 2775
- Williams, Nancy E., 233
- Williamson, Michael P., 949
- Willis, Christine L., 2177
- Wilson, Aileen, 1665
- Winwick, Thomas, 39
- Wolf, Willem H. de, 2119
- Wong, Kait P., 2267
- Wong, Rosalind Y., 1315, 1413, 2075
- Wood, Hamish C. S., 1323, 1645, 2133, 2145
- Wood, Michael L., 275
- Wood, Simon, 2033, 2559

- Woodgate, Paul D., 2545
Wozniak, Jocelyne, 1865
Wrigglesworth, Roger, 809, 1565
Wright, Brian, 2577
Wright, John L., 1523
Wu, Xiao-Ming, 1185
Wyse, Kevin J., 2501
Wyvill, Robert D., 1971, 1983
Yagoub, Ahmed K., 2769
Yaguchi, Masamichi, 785
Yamada, Hidetoshi, 1271
Yamada, Shinji, 1431
Yamada, Shozo, 2361, 2417
Yamada, Yoshihiro, 1137
Yamamoto, Iwao, 2785
Yamanaka, Hiroaki, 991
Yamauchi, Kiyoshi, 1327
Yamauchi, Masashige, 183
Yamazaki, Tomio, 2417
Yang-zhi, Ling, 2129
Yeates, Clive, 1879
Yeates, Clive L., 1337
Yeoh, Boon Leng, 1311, 2705, 2749
Yeung, Lilan K. P., 1249
Yeung, Wing Kai, 2159
Yokota, Yoichi, 1845
Yonaga, Masahiro, 305
Yonemitsu, Osamu, 1, 7, 19, 27
Yoshida, Takashi, 315
Yoshino, Kazue, 1245
Yoshioka, Tadao, 1261, 1271
Young, Desmond A., 2521, 2529, 2537
Young, Douglas W., 1349, 1355, 1363, 2790
Young, Geoffrey T., 1767
Young, Richard G., 741
Yukawa, Hirotaka, 2151
Yuki, Heimei, 1845
Yus, Miguel, 447
Zaidi, Javid Hussain, 631
Zamorano, Pilar, 1681
Zard, Samir Z., 1865, 2191
Zecchi, Gaetano, 1903, 2621
Zeigan, Dieter, 1597
Zelnik, Raymond, 323

SUBJECT INDEX, 1985

ACACIA MEARNSII

Synthesis of condensed tannins. Part 15. Structure of natural 'angular' profisetinidin tetraflavanoids: asymmetric induction during oligomeric synthesis, 2529-36

ACENAPHTHYLENE

Reactions of *o*-quinones with some bis-phosphonium salts in the presence of lithium ethoxide, 429-36

ACEPLEIADYLENE

Synthesis and properties of acepleiadylene-5,6-dione and acepleiadylene-5,8-dione, 785-94

ACETAL

Reaction of ketenes. Part 18. Catalysed reactions between α -diazocarbonyl compounds and ketene acetals, 289-94

Silicon-mediated annulation. Part 1. A synthesis of tetrahydropyran-4-one, oxepan-4-ones, and oxocan-4-ones *via* intramolecular directed aldol reactions, 2093-100

Silicon-mediated annulation. Part 2. A synthesis of β -alkoxy cyclo-octanones *via* intramolecular directed aldol reactions, 2101-8

ACETALDEHYDE

The biosynthesis of spermidine. Part 2: Preparation and study by ^1H n.m.r. spectroscopy of hexahydropyrimidines from spermidine and propane-1,3-diamines, 2011-6

ACETAMIDOSULPHENYLATION

Anodic acetamidodisulphenylation of alkenes *via* anodic oxidation of disulphides, 1033-8

ACETAMIDOSULPHIDE

Additions to alkenes *via* metal ion-promoted oxidation of dialkyl and diaryl disulphides, 1039-44

ACETIMIDATE

A new approach to (\pm)-2-amino-2-deoxytetritol derivatives, 935-40

Acid-catalysed benzylation and allylation by alkyl trichloroacetimidates, 2247-50

ACETOPHENONE

Reactions of 4-substituted-2'-halogenoacetophenones with Grignard reagents, 1373-80

ACETOXYLATION

Liquid-phase 1,4-diacetoxylation of conjugated dienes with tellurium(IV) oxide and alkali metal halides, 499-504

ACETYLENE

Diels-Alder reactivity of pyrano[3,4-*b*]indol-3-ones, stable analogues of indole-2,3-quinodimethanes, 2505-8

ACETYLENEDICARBOXYLATE

The *X*-ray molecular structures of methyl 4,5,7,8,9,10,11,12,13,14-decahydro-7,9-dioxo-8,15-methenopyrrolo[3,2,1-*op*][1]benzazacyclododecine-16-carboxylate, methyl (*Z*)-1',2',4',5'-tetrahydro-2,4'-dioxospiro(cycloheptane-1,6'-[6*H*]pyrrolo[3,2,1-*ij*]quinolin)-5'-ylideneacetate, and methyl (*Z*)-1,1a,2,3,4,8,9,9a-octahydro-1-methoxycarbonylmethyl-11-methoxycarbonylmethylene-12-oxo-1b,4a-epoxyethanoindolizino[2,3,4,5,6-*ijklm*]carbazole-1-carboxylate, 1921-6

ACETYLIDE ADDITION

Studies related to anthracyclines. Part 2. Synthesis of (\pm)-4-demethoxydaunomycinone, 525-34

ACRYLIC ACID

Synthesis of novel 5- and 6-substituted 3-arylidene-1,4-oxathiin-2(3*H*)-ones, 2417-24

ACYCLOGUANOSINE

The syntheses of acycloformycins and 5-amino-3-(2-hydroxyethoxy)methylpyrazolo[4,3-*d*]pyrimidin-7(6*H*)-one, an analogue of the antiviral acycloguanosine, 2087-92

ACYCLONUCLEOSIDE

The syntheses of acycloformycins and 5-amino-3-(2-hydroxyethoxy)methylpyrazolo[4,3-*d*]pyrimidin-7(6*H*)-one, an analogue of the antiviral acycloguanosine, 2087-92

ACYLSILANE

Some bifunctional acylsilanes and their photochemical reactions, 409-14

ADAMANTANE

Introduction of pharmacophoric groups into polycyclic systems.

Part 3. Amine derivatives of adamantane and diaza-adamantane, 2033-8

Enamine chemistry. Part 29. Synthesis of adamantane derivatives from α,β -unsaturated acid chlorides and 4,4-disubstituted cyclohexanone enamines. Multiple [3,3] sigmatropic rearrangement transition state stereochemistry. *X*-Ray analysis, 2559-72

ADDITION

Convergent syntheses of 9-deoxy-12-phenylthioprostanoids and 9-deoxy- $\Delta^{8(12)}$ -PGD₁ derivatives, 145-52

ADENOSINE

Methylation of adenosine and related nucleosides with trimethylselenonium hydroxide, and regioselective effects of copper(II) ions, 1327-30

AJMALICINE

Heteroyohimbine alkaloids. Stereospecific conversion of ajmalicine into 19-epiajmalicine, 923-6

ALANINE

Stereochemistry of catabolism of the RNA base uracil, 1355-62

ALDEHYDE

Chemistry of ketene acetals. Part 8. Stereochemistry of the reaction of 1,1-dimethoxypropene with aldehydes, 561-4

ALDIMINE

The synthesis of NH aldimines and derivatives by spontaneous and base-catalysed decomposition of oxaziridines, 2123-8

ALDOL CONDENSATION

Chiral α -sulphinyl hydrazones as effective reagents for stereoselective aldol-type condensation, 251-4

Double stereoselection in the aldol-type synthesis of γ -methyl and γ -alkoxy β -hydroxy ketones mediated by α -sulphinyl hydrazones, 255-60

Enantiomerically pure sulphinyl-4,5-dihydroisoxazoles. Part 2. Synthesis of masked and unmasked β,β' -dihydroxy ketones *via* stereocontrolled double aldol condensation, 2293-8

ALDOL REACTION

Silicon-mediated annulation. Part 1. A synthesis of tetrahydropyran-4-one, oxepan-4-ones, and oxocan-4-ones *via* intramolecular directed aldol reactions, 2093-100

Silicon-mediated annulation. Part 2. A synthesis of β -alkoxy cyclo-octanones *via* intramolecular directed aldol reactions, 2101-8

ALKALI METAL TRANSPORT

Binding and transport of alkali metal ions by synthetic analogues of nactins, 1717-24

ALKALOID

Pyrrrolizidine alkaloid analogues. Synthesis of ten-membered macrocyclic diesters of (+)-retronecine, 611-4

Pyrrrolizidine alkaloid biosynthesis. Synthesis of ^{14}C -labelled homospermidines and their incorporation into retronecine, 819-24

Heteroyohimbine alkaloids. Stereospecific conversion of ajmalicine into 19-epiajmalicine, 923-6

Total synthesis of (\pm)- and (+)-latifine, 2447-54

ALKANOATE ESTER

Necic acid synthons. Part 4. Regioselectivity in the reactions of chloro and iodo derivatives of selected 3-hydroxy-2-methylenealkanoate esters with ethyl 2-methyl-3-oxobutanoate, 1143-6

ALKENE

A new method for the oxidation of alkenes to enones. An efficient synthesis of Δ^5 -7-oxo steroids, 267-74

Anodic acetamidodisulphenylation of alkenes *via* anodic oxidation of disulphides, 1033-8

Additions to alkenes *via* metal ion-promoted oxidation of dialkyl and diaryl disulphides, 1039-44

Additions to alkenes *via* metal ion-promoted oxidation of 2,2'-dipyridyl disulphide and bis-(2-aminophenyl) disulphide, 1045-8

Radical-cations as intermediates in the oxidation of alkenes by metal ions, 1087-94

A general approach to the synthesis of mono-olefinic insect sex pheromones of *Z*- or *E*-configuration, 1115-20

ALKENE (contd)

- Free radical chemistry. Part 4. Stereoelectronic effects in the additions of cyclic ethers to fluorinated alkenes, 2215-8
The stereocontrolled Horner-Wittig reaction: synthesis of disubstituted alkenes, 2307-26

ALKENEDITHIOLATE

- The preparation of 1-aryl- and 1-heteroaryl-alkene-1,2-dithiolates, 1907-10

ALKENYLATION

- Platinum complexes in organic synthesis: catalytic *ortho*-alkenylation of anilines, 1095-8

ALKOXIDE

- Polymer supported alkoxides: synthesis and reactivity, 1257-60

ALKYLATION

- N*-Alkylation of some secondary styryl enamides, 831-6

ALKYLTHIO SHIFT

- Polarized ketene dithioacetals. Part 41. Studies on base-catalysed rearrangements of 1,1-bis(alkylthio)-2-arylpenta-1,4-dienes to novel 1,5-bis(alkylthio)-2-arylpenta-1,3-dienes *via* a 1,5-alkylthio shift, 641-6

ALKYNE

- Two-step synthesis of imidazoles from activated alkynes, 741-6

ALLENE

- Inter- and intra-molecular reactions of allene-1,3-dicarboxylic acid esters with 2-vinylfurans and 2-vinylthiophenes. A potential route to a BC ring precursor of the nagilactones, 747-56

ALLIACOLIDE

- 1 α -Hydroxyalliocolide, a sesquiterpenoid metabolite of *Marasmius alliaceus*. X-Ray molecular structure of 1 α -hydroxyalliocolide, 2749-52

ALLONIC ACID

- Synthesis of imidazo-fused bridgehead-nitrogen 2'-deoxyribo-*C*-nucleosides: coupling-elimination reactions of 2,5-anhydro-3,4,6-tri-*O*-benzoyl-D-allonic acid, 621-30

ALLOPURINOL

- Synthesis and hydrolytic stability of 4-substituted pyrazolo[3,4-*d*]pyrimidine 2'-deoxyribofuranosides, 2573-6

ALLYLATION

- Acid-catalysed benzylation and allylation by alkyl trichloroacetimidates, 2247-50

ALLYLIC PEROXIDE

- Cardiotonic steroids. Part 10. Synthesis of digitoxigenin from 3 β -acetoxyandrost-5-en-17-one involving palladium-induced rearrangement of an allylic epoxide, 1601-6

AMIDE ISOSTERE

- On the double bond isostere of the peptide bond: preparation of modified di- and tri-peptides incorporating proline and alanine analogues, 2299-306

AMIDINE

- 1,2,4-Thiadiazolylureas. A postscript to the oxidative cyclisation of thionoamidines, 311-4

AMINE

- Glycosides of *N*-hydroxy-*N*-arylamine derivatives. Part 1. Synthesis and mutagenicity of *O*-glucosides of *N*-hydroxy-*N*-arylamines and their acetoxyhydroxamic acids, 1261-70

- Glycosides of *N*-hydroxy-*N*-arylamine derivatives. Part 2.¹

- Convenient synthetic methods for *N*-glycosides of *N*-hydroxy-*N*-arylamines, 1271-6

- Nitrosamines from tertiary amines and dinitrogen tetraoxide, 1661-4

- Some applications of the Curtius rearrangement, 2277-82

AMINE PROTECTION

- Evaluation of phosphinic acid derivatives as reagents for amine protection in peptide synthesis, 1217-26

AMINO ACID

- Synthesis of sequential polypeptides containing L-isoleucine for assignment of the far-i.r. band characteristic of isoleucyl in a peptide α -helix, 765-8

- Amino acids and peptides. Part 49. 2-Amino-4-(3-pyridyl)butyric acid and related peptides, 1767-72

- Investigation of new chiral 1,3-oxazolidine-2-thiones: analytical separation and optical resolution of racemic carboxylic acids and amino acids, 2361-8

- Convenient synthesis of stereospecifically deuterated glycines from glutamic acid using a combination of enzymatic and chemical methods, 2389-92

AMINO ALCOHOL

- Asymmetric synthesis using chirally modified borohydrides. Part 3. Enantioselective reduction of ketones and oxime ethers with

- reagents prepared from borane and chiral amino alcohols, 2039-44

- Enantiomerically pure sulphanyl-4,5-dihydroisoxazoles. Part 1. Stereocontrolled synthesis of optically active β -ketols and γ -amino alcohols, 2289-92

AMINO BUTANE

- Synthesis of (*R*)- and (*S*)-2-aminobutane from (*S*)- and (*R*)-2-aminobutanol, 919-22

AMINO KETONE SYNTHESIS

- Specific inhibitors in vitamin biosynthesis. Part 8. Syntheses of some functionalised 7,7-dialkyl-7,8-dihydropterins 2133-44

AMINO SUGAR

- Studies on lactams. Part 74. An approach to the total synthesis of amino sugars *via* β -lactams, 2045-50

AMINYL

- Pyrolyses of *o*-alkoxy- and *o*-alkylthio-*N*-allylanilines and of some related *O*- and *S*-allyl compounds, 1885-90

ANCISTROFURAN

- Stereoselective synthesis of (\pm)-ancistrofuran and its stereoisomers, 2463-8

ANDROSTACHYS JOHNSONII

- A new atisane diterpene: *ent*-16 α -hydroxyatis-13-en-3-one from *Androstachys johnsonii* Prain, 703-10

ANDROSTADIENE

- 4-Chloromercuroandrosta-4,6-diene-3,17-dione: preparation, X-ray structure determination, and potential utility, 1049-54

ANDROSTENE

- Steroids. Part 32. Configurational analysis of 16-methyltestosterone derivatives, 1597-600

- Cardiotonic steroids. Part 10. Synthesis of digitoxigenin from 3 β -acetoxyandrost-5-en-17-one involving palladium-induced rearrangement of an allylic epoxide, 1601-6

ANHYDRIDE

- Application of diphenylphosphinic carboxylic mixed anhydrides to peptide synthesis, 461-70

ANILINE

- Platinum complexes in organic synthesis: catalytic *ortho*-alkenylation of anilines, 1095-8

- Pyrolyses of *o*-alkoxy- and *o*-alkylthio-*N*-allylanilines and of some related *O*- and *S*-allyl compounds, 1885-90

ANISOMYCIN

- A new synthesis of (-)-anisomycin and its demethoxy analogue from D-ribose, 1463-70

ANNELATION

- Studies on lactams. Part 74. An approach to the total synthesis of amino sugars *via* β -lactams, 2045-50

ANNULATION

- Silicon-mediated annulation. Part 1. A synthesis of tetrahydropyran-4-one, oxepan-4-ones, and oxocan-4-ones *via* intramolecular directed aldol reactions, 2093-100

- Silicon-mediated annulation. Part 2. A synthesis of β -alkoxy cyclo-octanones *via* intramolecular directed aldol reactions, 2101-8

ANNULENE

- Tricyclic [10]annulenes. Part 5. Phenol-keto tautomerism in the 2- and 5-hydroxy derivatives of 7b-methyl-7bH-cyclopent[*cd*]indene, 383-90

- Tricyclic [10]annulenes. Part 6. Preparation and properties of 7b-ethyl- and 7b-isopropyl-7bH-cyclopent[*cd*]indenes, 731-4

- Tricyclic [10]annulenes. Part 7. Preparation, properties, and reactions of 7b-benzyl-7bH-cyclopent[*cd*]indene, 735-40

- Synthesis of a bridged benzodiaza[14]annulene by reaction of 4,6-bisbromomethyl-5,2,8-ethanylylidene-5H-1,9-benzodiazacycloundecine with dimethyl acetonedicarboxylate, 871-4

ANODIC OXIDATION

- Anodic acetamidodisulphenylation of alkenes *via* anodic oxidation of disulphides, 1033-8

- Electrochemical oxidation of aromatic ethers. Part 10.

- Regioselectivity in the aryl-aryl coupling reactions of some 4-benzylisochroman-3-ones and benzyl-1,2,3,4-tetrahydroisoquinolines, 1195-200

- Spirodienones. Part 5. The synthesis and reactions of *N*-sulphonylcyclohexadienimines, 1829-36

ANT

- Synthesis of (*Z,E*) and (*Z,Z*)- α -farnesenes and homofarnesenes, 399-404

ANTHRACENE

- Synthesis of intermediates related to 11-deoxyanthracyclinones, 39-44

ANTHRACENE (contd)

N.M.R. spectra and conformations of 9,10-dihydroanthracenes, 1849–58

X-Ray crystal and molecular structures of three 9,10-dihydroanthracenes, 1859–64

ANTHRACYCLINE

Studies related to anthracyclines. Part 2. Synthesis of (\pm)-4-demethoxydaunomycinone, 525–34

ANTHRACYCLINONE

Synthesis of intermediates related to 11-deoxyanthracyclines, 39–44

Anthracyclines. Part 3. Use of di-isopropylidene-D-glucose and a modified Marschalk reaction to introduce a tertiary carbinol function into ring D of anthracyclines, 875–82

Anthracyclines. Part 4. The use of DBN or DBU in a novel extension of the Marschal reaction leading to hydroxyglycylanthraquinones, 1557–1563.

ANTHRAQUINONE

Anthracyclines. Part 3. Use of di-isopropylidene-D-glucose and a modified Marschalk reaction to introduce a tertiary carbinol function into ring D of anthracyclines, 875–82

ANTIBIOTIC

Synthesis of a cyclobutanone analogue of a β -lactam antibiotic, 391–8

¹H N.m.r. studies of the structure of ristocetin A and of its complexes with bacterial cell wall analogues in aqueous solution, 949–56

A stereoselective synthesis of (\pm)-malyngolide, 1157–60

Studies in terpenoid biosynthesis. Part 31. Some aspects of the chemistry and biosynthesis of the steroidal antibiotic, demethoxyviridin, 1311–4

Synthetic studies on antibiotic validamycins. Part 11. Synthesis of validamycin A, 2369–74

An analysis of the ¹H and ¹³C n.m.r. spectra of erythromycin A using two-dimensional methods, 2599–604

ANTICANCER AGENT

Nucleoside analogues. Part 2. Further molecular combinations of (5-substituted) uracil and N-(2-chloroethyl)-N-nitrosourea residues as anticancer agents, 93–100

Studies on uracil derivatives and analogues. Part 8. A non-catalytic method for the conversion of uracil derivatives into dihydrouracil derivatives, 1295–300

ANTIGEN

Strategies for the synthesis of branched oligosaccharides of the *Shigella flexneri* 5a, 5b, and variant X serogroups employing a multifunctional rhamnose precursor, 2251–60

ANTITUMOUR AGENT

Triazines and related products. Part 30. Cationic analogues of the antitumour drug 2,4,6-tris(dimethylamino)-1,3,5-triazine(hexamethylmelamine), 1533–40

ANTIVIRAL AGENT

Synthesis of ara-doridosine, a new arabinosyl nucleoside resistant to adenosine deaminase. X-Ray structure determination of 6-N,9(N)-diacetyl-1(N)-methylisoguanine, 1315–22

C-Nucleoside studies. Part 18. The synthesis of C-nucleoside analogues of the antiviral agent (S)-9-(2,3-dihydroxypropyl)adenine, 1425–30

APHIDICOLIN

Studies in terpenoid biosynthesis. Part 32. The incorporation of aphidicolin-16-ene and aphidicolan-16 β -ol into the diterpenoid aphidicolin by the fungus *Cephalosporium aphidicola*, 2705–8

APORPHINE

A novel ring closure leading to 3,9-dihydroxyaporphines (3,9-dihydroxy-4H-dibenzo[de,g]quinolines). Part 2., 2455–62

ARA-DORIDOSINE

Synthesis of ara-doridosine, a new arabinosyl nucleoside resistant to adenosine deaminase. X-Ray structure determination of 6-N,9(N)-diacetyl-1(N)-methylisoguanine, 1315–22

ARENE OXIDE

The biosynthetic incorporation of [*phenyl*-³H]phenylalanine into gliotoxin, 1487–90

AROMATICITY

Tricyclic [10]annulenes. Part 5. Phenol-keto tautomerism in the 2- and 5-hydroxy derivatives of 7b-methyl-7bH-cyclopent[cd]indene, 383–90

Tricyclic [10]annulenes. Part 6. Preparation and properties of 7b-ethyl- and 7b-isopropyl-7bH-cyclopent[cd]indenes, 731–4

Synthesis of mesoionic analogues of heptafulvene *via* dicationic ether salts derived from mesoionic olates and

trifluoromethanesulphonic anhydride, 2439–42

AROMATIC SUBSTITUTION

The peculiar behaviour of the trifluoromethyl substituent in *S_{RN}1* processes, 2515–20

ARYLATION

Ferrocene derivatives. Part 22. Friedel-Crafts arylations with chloroferrocenes. A new route to arylferrocenes, 1233–6

ARYL SHIFT

Reactions of 4-substituted-2'-halogenoacetophenones with Grignard reagents, 1373–80

ASPERGILLUS USTUS

Metabolites of *Aspergillus ustus*. Part 1. Application of the heteronuclear selective population inversion (SPI) n.m.r. technique to the structure elucidation of the austalides A–F, novel ortho ester meroterpenoids, 345–56

Metabolites of *Aspergillus ustus*. Part 2. Stereoelectronic control in the acid-catalysed hydrolysis of the ortho ester moiety in austalides A–F, 357–62

Metabolites of *Aspergillus ustus*. Part 3. Structure elucidation of austilides G–L¹, 363–8

ASPERTETRONIN

Synthesis of isoaspartetronin, isogregatin and related *O*-methyltetronic acids. Reassignment of 5-methoxyfuran-3(2*H*)-one structures to the aspartetronin group of natural products, 2407–12

ASYMMETRIC REDUCTION

Asymmetric synthesis using chirally modified borohydrides. Part 3. Enantioselective reduction of ketones and oxime ethers with reagents prepared from borane and chiral amino alcohols, 2039–44

ASYMMETRIC SYNTHESIS

Diastereoselective reduction of chiral α -ketoamides derived from (*S*)-proline esters with sodium borohydride. Preparation of optically active α -hydroxy acids, 769–72

Michael additions catalysed by cinchona alkaloids bound *via* their vinyl groups to preformed crosslinked polymers 2327–32

ATISANE

A new atisane diterpene: *ent*-16 α -hydroxyatis-13-en-3-one from *Androstachys johnsonii* Prain, 703–10

AUSTALIDE

Metabolites of *Aspergillus ustus*. Part 1. Application of the heteronuclear selective population inversion (SPI) n.m.r. technique to the structure elucidation of the austalides A–F, novel ortho ester meroterpenoids, 345–56

Metabolites of *Aspergillus ustus*. Part 2. Stereoelectronic control in the acid-catalysed hydrolysis of the ortho ester moiety in austalides A–F, 357–62

Metabolites of *Aspergillus ustus*. Part 3. Structure elucidation of austilides G–L¹, 363–8

AZA-ALKENE

Reactions involving fluoride ion. Part 31. Co-oligomers of perfluoro-1-methyl-1,3-diazacyclopent-2- and -3-ene, 53–6

AZA-AZULENE

The synthesis and chemistry of 4-aza-azulene, 1793–802

AZABICYCLOHEPTANE

High-pressure synthesis, structures, and conformational properties of some derivatives of 7-azabicyclo[2.2.1]heptane. X-Ray determination of *endo*-10-benzoyl-4-phenyl-4,10-diazatricyclo[5.2.1.0^{2,6}]dec-8-ene-3,5-dione and *exo*-10-acetyl-4-phenyl-4,10-diazatricyclo[5.2.1.0^{2,6}]decane-3,5-dione, 1277–84

AZABICYCLOHEPTENE

Olivanic acid analogues. Part 2. Total synthesis of some C(6)-substituted 7-oxo-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylates, 2219–34

Olivanic acid analogues. Part 3. Total synthesis of C(6 α)-methoxy-substituted 7-oxo-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylates, 2235–40

AZABUTADIENE

Mesoionic oxazolones in heterocyclic syntheses. Reaction of 2,4-diphenyloxazol-5(4*H*)-one with 1-azabuta-1,3-dienes, 773–8

AZA CROWN ETHER

Formation of complexes between aza derivatives of crown ethers and primary alkylammonium salts. Part 8. 12-Crown-4, 15-crown-5, 21-crown-7, and 24-crown-8 derivatives, 1637–44

AZA-DI- π -METHANE REARRANGEMENT

Generation and rearrangement of 4a*H*-carbazoles, 2725–32

Preparation and rearrangement of 6a-methyl-6a*H*-benzo[*a*]carbazole and 11b-methyl-11b*H*-benzo[*c*]carbazole, 2733–40

AZAINDOLIZINE

Synthesis of peri-fused indolizines and azaindolizines by intramolecular 1,3-dipolar cycloaddition of 3-(phenylpropynoyloxyalkyl)pyridine *N*-ylides, 379–82

AZEPINE

Intramolecular reactions of *N*-nitrenes: oxidation of 3-amino-2-(2,4-dimethoxyphenylethyl)quinazolin-4(3*H*)-ones, 335–40
3*H*-Azepines and related systems. Part 3. Mono- and bis-2-alkoxy-3*H*-azepine-3-carboxylates and -3-carboxamides by photolysis of mono- and di-*o*-azidobenzoyl derivatives of glycols and diamines. Some acyclic crown ether analogues, 1121–6

AZETIDINE

Use of π -allyltricarboxyliron lactam complexes in the preparation of nocardicin derivatives: synthesis of (–)-3-oxo-1-[(*p*-benzyloxyphenyl)benzyloxycarbonylmethyl]azetid-2-one, 2375–82

AZETIDINONE

Studies on lactams. Part 74. An approach to the total synthesis of amino sugars *via* β -lactams, 2045–50

AZETOAZIRINOPYRAZINE

Synthesis of novel fused β -lactams by intramolecular 1,3-dipolar cycloadditions. Part 8. 6,7,7a,7b-Tetrahydro-3-methyl-6-oxo-1*H*-azeto[1,2-*a*]azirino[2,1-*c*]pyrazine-4-carboxylic acids, 1927–34

AZETOIMIDAZO-*V*-TRIAZOLE

Synthesis of novel fused β -lactams by intramolecular 1,3-dipolar cyclo-additions. Part 7. (9*RS*,9*aRS*)-9,9a-Dihydro-5-methyl-8-oxo-9-phenoxyacetamido-8*H*-azeto[1,2-*a*]-*v*-triazolo[5,1-*c*]pyrazine-6-carboxylic acids and (3*bRS*,4*RS*,7*SR*)-4,5-dihydro-5-oxo-4-phenoxyacetamido-3*bH*-azeto[1',2':3,4]imidazo[1,5-*c*]-*v*-triazole-7-carboxylic acid, 1491–8

AZETO-*V*-TRIAZOLOPYRAZINE

Synthesis of novel fused β -lactams by intramolecular 1,3-dipolar cyclo-additions. Part 7. (9*RS*,9*aRS*)-9,9a-Dihydro-5-methyl-8-oxo-9-phenoxyacetamido-8*H*-azeto[1,2-*a*]-*v*-triazolo[5,1-*c*]pyrazine-6-carboxylic acids and (3*bRS*,4*RS*,7*SR*)-4,5-dihydro-5-oxo-4-phenoxyacetamido-3*bH*-azeto[1',2':3,4]imidazo[1,5-*c*]-*v*-triazole-7-carboxylic acid, 1491–8

AZIDE

Cycloaddition reactions of 1,4,2-dithiazole-5-thiones, 1205–8

AZIDOBENZAMIDE

3*H*-Azepines and related systems. Part 3. Mono- and bis-2-alkoxy-3*H*-azepine-3-carboxylates and -3-carboxamides by photolysis of mono- and di-*o*-azidobenzoyl derivatives of glycols and diamines. Some acyclic crown ether analogues, 1121–6

AZIDOBENZOATE

3*H*-Azepines and related systems. Part 3. Mono- and bis-2-alkoxy-3*H*-azepine-3-carboxylates and -3-carboxamides by photolysis of mono- and di-*o*-azidobenzoyl derivatives of glycols and diamines. Some acyclic crown ether analogues, 1121–6

AZIDOHYDRAZONE

Ketone enamines as dipolarophiles towards *C*-azidohydrazones, 1903–6

AZINE

Thermal and photochemical studies of symmetrical and unsymmetrical dihydro-1,3,4-selenadiazoles, 107–14

AZIRIDINE

Synthesis of novel fused β -lactams by intramolecular 1,3-dipolar cycloadditions. Part 8. 6,7,7a,7b-Tetrahydro-3-methyl-6-oxo-1*H*-azeto[1,2-*a*]azirino[2,1-*c*]pyrazine-4-carboxylic acids, 1927–34

AZIRIDIUM ION

Addition of phenylnitrenium ion to olefins. Reactions of phenyl azide with some olefins in the presence of trifluoroacetic acid, 677–84

AZO

Azo dienophiles. Diels–Alder reactions of 4-phenyl-1,2,4-triazole-3,5-dione and 5-phenylpyrazol-3-one with functionalised dienes, 71–4

AZOCINE

Studies on pyrrolizidines and related compounds. Part 8. A new route to perhydroazocines and related compounds using 1,2,3,5,6,7-hexahydropyrrolizinylium perchlorate, 2611–4

AZOETHENE

Addition and cycloaddition reactions of β -chloroazo-olefins, 1741–6

AZOLENINE

The synthesis and chemistry of azolenines. Part 4. Preparation and rearrangement of some 3,5-diaryl-2*H*-pyrrole-2,2-dicarboxylic esters, 1773–80

AZOLIUM CATION

Nucleophilic substitution in quaternary salts of *NN'*-linked biazoles and related systems, 1209–16

AZOETHENE

The activating effects of arylazo groups on a double bond. Preparation and properties of some bis(dialkylamino)arylazoethenes and related compounds, 1737–40

BACTERIOCHLOROPHYLL

Bacteriochlorophylls-d from *Chlorobium vibrioforme*: chromatographic separations and structural assignments of the methyl bacteriopeophorbides, 1099–114

BACTERIOPHEOPHORBIDE

Bacteriochlorophylls-d from *Chlorobium vibrioforme*: chromatographic separations and structural assignments of the methyl bacteriopeophorbides, 1099–114

BAEYER-VILLIGER

Reactions of formylchromone derivatives. Part 5. Transformations of 3-formylchromones into pyrroles and pyridines, 1747–56
Synthesis of 2-substituted bicyclo[2.1.0]pentanes from bicyclo[3.1.0]hexan-2-one, 2509–14

BALANOCARPOL

Balanocarpol, a new polyphenol from *Balanocarpus zeylanicus* (Trimen) and *Hopea jucunda* (Thw.) (Dipterocarpaceae), 1807–10
The differentiation of π - and τ -derivatised histidines, 1811–6

BALANOCARPUS ZEYLANICUS

Balanocarpol, a new polyphenol from *Balanocarpus zeylanicus* (Trimen) and *Hopea jucunda* (Thw.) (Dipterocarpaceae), 1807–10
The differentiation of π - and τ -derivatised histidines, 1811–6

BENZAZEPINE

Bridged-ring nitrogen compounds. Part 7. Synthesis of the 1,4-ethano-3-benzazepine ring system, 2677–88

BENZENESULPHENANILIDYL RADICAL

Benzenesulphenanilidyl radicals. Part 3. Reactions of 4'-substituted benzenesulphenanilides with *t*-butoxyl radicals, 1577–82

BENZIMIDAZODITHIAZOLE

Exchange, elimination, and ring opening reactions of 2,3-dihydrobenzimidazo[1,2-*d*][1,2,4]thiadiazoles and 3*H*-benzimidazo[2,1-*c*][1,2,4]dithiazoles, 1007–14

BENZIMIDAZOLE

Exchange, elimination, and ring opening reactions of 2,3-dihydrobenzimidazo[1,2-*d*][1,2,4]thiadiazoles and 3*H*-benzimidazo[2,1-*c*][1,2,4]dithiazoles, 1007–14

BENZOCARBAZOLE

Preparation and rearrangement of 6*a*-methyl-6*aH*-benzo[*a*]carbazole and 11*b*-methyl-11*bH*-benzo[*c*]carbazole, 2733–40

BENZOCHRYSENE

Synthesis of benzo[*g*]chrysene, benzo[*g*]chrysene 9, 10-oxide and benzo[*g*]chrysene 1,2:9,10-dioxide, 857–60

BENZOCYCLOBUTENE

Benzocyclo-octenes. Part 4. Benzo- and dibenzo[*a,e*]-cyclo-octene synthesis *via* benzocyclobutene, 1407–12
Syntheses of (\pm)-tetrahydropalmitine and spirobenzylisoquinolines by thermolysis of benzocyclobutene derivatives, 2151–4

BENZOCYCLO-OCTENE

Benzocyclo-octenes. Part 4. Benzo- and dibenzo[*a,e*]-cyclo-octene synthesis *via* benzocyclobutene, 1407–12

BENZODIAZA-ANNULENE

Synthesis of a bridged benzodiaza[14]annulene by reaction of 4,6-bisbromomethyl-5,2,8-ethanylylidene-5*H*-1,9-benzodiazacycloundecine with dimethyl acetonedicarboxylate, 871–4

BENZODIAZACYCLOUNDECINE

Synthesis of a bridged benzodiaza[14]annulene by reaction of 4,6-bisbromomethyl-5,2,8-ethanylylidene-5*H*-1,9-benzodiazacycloundecine with dimethyl acetonedicarboxylate, 871–4

BENZODIOXANE

Asymmetric synthesis of 3-methyl-2-phenyl-1,4-benzodioxanes. Absolute configuration of the neolignans esuderin and esuderin C and D, 2555–8

BENZODIPYRAN

Acid-induced broadening of ¹H n.m.r. signals in the 6-hydroxychroman and 5-hydroxydihydrobenzofuran series, 1301–10

BENZOFURAN

Lithiation in flavones, chromones, coumarins, and benzofuran derivatives, 799–808

BENZOFURAN (contd)

A versatile two-stage synthesis of 2-substituted benzo[*b*]furans from (2-methoxyphenyl)ethynes, 2443–6

Partially fluorinated heterocyclic compounds. Part 20.

Isomerisations of pentafluorophenyl and 1,3,4,5,6,7,8-heptafluoro-2-naphthyl prop-2-ynyl ethers. Reactions of the naphthyl ether and 2-fluoromethyl-4,5,6,7,8,9-hexafluoronaphtho-[2,1-*b*]furan with 2,3-dimethylbut-2-ene and with 3,3-dimethylbut-1-ene, 2637–42

Studies on sugar nitro-olefins. Part 6. Synthesis of (3*R*)-3,5,6,7-tetrahydro-2-hydroxyimino-3-(penta-*O*-acetylpenitol-1-yl)benzofuran-4(2*H*)-ones from 3,4,5,6,7-penta-*O*-acetyl-1,2-dideoxy-1-nitrohept-1-enitols and cyclohexane-1,3-diones, 2695–700

BENZOPYRIDINE

*S*_N2' Type substitution reactions of 1-diphenylamino- and 1-carbazol-9-yl-pyridinium cations, 2155–8

BENZOPYRONE

Studies on the synthesis of heterocyclic compounds containing benzopyrone. Part 4. Synthesis of 4,10-dihydro-3-hydroxy-3-methyl-1*H*,3*H*-pyrano[4,3-*b*][1]benzopyran-10-one, the basic skeleton in fulvic acid, 183–6

BENZOSUBERONE

Bridged-ring nitrogen compounds. Part 7. Synthesis of the 1,4-ethano-3-benzazepine ring system, 2677–88

BENZOTHIOPHENE

Cyclopropacycloheptathiophenones and thiols: unexpected rearrangement with dithiols leading to benzo- and cyclo-octathiophenes. Spectroscopic and mechanistic studies, 983–90

BENZOTRIAZOLE

Intramolecular reaction between nitro and carbodi-imide groups; a new synthesis of 2-arylbenzotriazoles, 1471–80

Generation and rearrangement of 4*aH*-carbazoles, 2725–32

Preparation and rearrangement of 6*a*-methyl-6*aH*-benzo[*a*]carbazole and 11*b*-methyl-11*bH*-benzo[*c*]carbazole, 2733–40

BENZYLATION

Acid-catalysed benzylation and allylation by alkyl trichloroacetimidates, 2247–50

BENZYLNE

1,2-Didehydrophenothiazines: preparation of 1-alkyl and 1-aryl-substituted phenothiazines by lithium-directed alkylation, 969–72

Diels–Alder reactivity of pyrano[3,4-*b*]indol-3-ones, stable analogues of indole-2,3-quinodimethanes, 2505–8

BERGENIN

Polyphenols from dipterocarp species. Vaticaffinol and ϵ -viniiferin, 159–62

BETAINE

Some novel reactions of pyridinium-2-carboxylate betaines, 2167–72

BIARYL

Biphenylenes. Part 33. Synthesis of bisbenzo[3,4]cyclobuta[1,2-*b*:1',2'-*h*]- and bisbenzo[3,4]cyclobuta[1,2-*c*:1',2'-*g*]-phenanthrene, and attempts to prepare planar derivatives of cyclo-octatetraene, 115–20

BIAZOLE

Nucleophilic substitution in quaternary salts of *NN'*-linked biazoles and related systems, 1209–16

BICYCLOBUTYLIDENE

Reactions involving fluoride ion. Part 31. Remarkable reactivity of perfluorobicyclobutylidene, 1191–4

BICYCLOHEPTANE

Reactions of the potassium salt of 1,7,7-trimethyl-*N*-nitrobicyclo[2.2.1]heptan-2-imine with bromine and nitrous acid: synthesis of 3-*exo*-bromo-1,7,7-trimethyl-*N*-nitrobicyclo[2.2.1]heptan-2-imine, 3-*endo*-bromo-1,7,7-trimethyl-*N*-nitrobicyclo[2.2.1]heptan-2-imine, 1,7,7-trimethyl-*N*-nitro-3-nitrosobicyclo[2.2.1]hept-2-en-2-amine and their reactions with nitrogen nucleophiles, 1251–6

BICYCLOHEXANE

Synthesis of 2-substituted bicyclo[2.1.0]pentanes from bicyclo[3.1.0]hexan-2-one, 2509–14

BICYCLO-OCTANE

Functionalised carbocycles from carbohydrates. Part 7. A route to carbacyclin from a D-glucose derivative. X-Ray crystal structure of 3-*endo*-benzoyloxy-2-*exo*-(1,3-diphenyl-1,3,2-diazaphospholan-2-ylloxymethyl)-6-oxobicyclo[3.3.0]octane, 295–300

BICYCLOPENTANE

Synthesis of 2-substituted bicyclo[2.1.0]pentanes from

bicyclo[3.1.0]hexan-2-one, 2509–14

BIFLAVANYL SYNTHON

Synthesis of condensed tannins. Part 14. Biflavanoid profisetinidins as synthons. The acid-induced 'phlobaphene' reaction, 2521–8

BILE ACID

Reduction of α -diazo- β -hydroxy esters to β -hydroxy esters: application in one of two convergent syntheses of a (2*S*)-22-hydroxy bile acid from fish bile and its (2*R*)-epimer, 493–8

BIOSYNTHESIS

Pyrrrolizidine alkaloid biosynthesis. Synthesis of ¹³C-labelled putrescines and their incorporation into retronecine, 101–6

Intact incorporation of δ -(α -L-aminoadipoyl)-L-[¹³C]cysteinyl-D-[¹⁵N]valine into isopenicillin N. Observation of one-bond ¹³C–¹⁵N coupling, 369–72

Mechanism of the transmethylation reaction by *S*-adenosylmethionine: stereochemistry of hydride migration from C-24 to C-25 in the biosynthesis of poriferasterol in the crysophyte *Ochromonas malhamensis*, 521–4

Pyrrrolizidine alkaloid biosynthesis. Synthesis of ¹⁴C-labelled homospermidines and their incorporation into retronecine, 819–24

Studies in terpenoid biosynthesis. Part 31. Some aspects of the chemistry and biosynthesis of the steroidal antibiotic, demethoxyviridin, 1311–4

Biosynthesis of the pyrethrins: unsaturated fatty acids and the origins of the retrholone segment, 1393–400

The biosynthetic incorporation of [*phenyl*-³H]phenylalanine into gliotoxin, 1487–90

The biosynthesis of spermidine. Part 1: biosynthesis of spermidine from L-[3,4-¹³C₂]methionine and L-[2,3,3-²H₃]methionine, 2007–10

The biosynthesis of spermidine. Part 2: Preparation and study by ¹H n.m.r. spectroscopy of hexahydropyrimidines from spermidine and propane-1,3-diamines, 2011–6

Biosynthesis of spermidine. Part 3: The stereochemistry of the formation of the N-CH₂ group in the biosynthesis of spermidine, 2017–24

Specific inhibitors in vitamin biosynthesis. Part 8. Syntheses of some functionalised 7,7-dialkyl-7,8-dihydropterins 2133–44

Specific inhibitors in vitamin biosynthesis. Part 9. Reactions of 7,7-dialkyl-7,8-dihydropteridines of use in the synthesis of potential inhibitors of tetrahydrofolate biosynthesis, 2145–50

The biosynthesis of calendic acid, octadeca-(8*E*,10*E*,12*Z*)-trienoic acid, by developing marigold seeds: origins of (*E*,*E*,*Z*) and (*Z*,*E*,*Z*) conjugated triene acids in higher plants, 2425–34

Studies in terpenoid biosynthesis. Part 32. The incorporation of aphidicol-16-ene and aphidicolan-16 β -ol into the diterpenoid aphidicolin by the fungus *Cephalosporium aphidicola*, 2705–8

BIPHENYLENE

Biphenylenes. Part 33. Synthesis of bisbenzo[3,4]cyclobuta[1,2-*b*:1',2'-*h*]- and bisbenzo[3,4]cyclobuta[1,2-*c*:1',2'-*g*]-phenanthrene, and attempts to prepare planar derivatives of cyclo-octatetraene, 115–20

BIPOLARAMIDE

Structure and biosynthesis of bipolaramide, a novel dioxopiperazine from *Bipolaris sorokiniana*, 2489–92

BIPOLARIS SOROKINIANA

Structure and biosynthesis of bipolaramide, a novel dioxopiperazine from *Bipolaris sorokiniana*, 2489–92

BISMUTH

Pentavalent organobismuth reagents. Part 2. The phenylation of phenols, 2657–66

Pentavalent organobismuth reagents. Part 3. Phenylation of enols and of enolate and other anions, 2667–76

 β -LACTAM

Syntheses of β -lactams by ring contraction of isothiazolidinones, 153–8

BLUE-GREEN ALGAE

Structural studies on cyanoginosins-LR, -YR, -YA, and -YM, peptide toxins from *Microcystis aeruginosa*, 2747–8

BOP COUPLING REAGENT

Renin substrates. Part 1. Liquid-phase synthesis of the equine sequence with benzotriazolylxytris(dimethylamino)phosphonium hexafluorophosphate (BOP), 1025–32

BORANE

Asymmetric synthesis using chirally modified borohydrides. Part 3. Enantioselective reduction of ketones and oxime ethers with reagents prepared from borane and chiral amino alcohols, 2039–44

BORATE ESTER

Free radical chemistry. Part 3. Substituent effects in additions of ethers to fluorinated alkenes, 2209–14

BORIC ACID

An efficient and short degradation of the cholic acid side chain: a new method for the preparation and dehydrogenation of 4,5-dihydro-oxazoles, 1865–70

BOROHYDRIDE

Asymmetric synthesis using chirally modified borohydrides. Part 4. Enantioselective reduction of ketones and oxime ethers with the reagent prepared from borane and polymer-supported (*S*)-(-)-2-amino-3-(*p*-hydroxyphenyl)-1,1-diphenylpropan-1-ol, 2615–20

BRADYKININ POTENTIATING PEPTIDE

Synthesis, resolution, and assignment of configuration of potent hypotensive retro-inverso bradykinin potentiating peptide 5a(BPP₁) analogues, 697–702

BRASSINOLIDE

Conversion of nor-ketones into prochiral terminal methylene groups: synthesis of (2*E*)- and (2*Z*)-[28-²H]ergosta-5,24(28)-dien-3 β -ols, 595–600

BREVICOMIN

Unsaturated carbohydrates. Part 27. Synthesis of (-)-*exo*-brevicomin from a nona-3,8-dienulose derivative, 301–4
 β -Halogeno-ether synthesis of olefinic alcohols: stereochemistry of the ring-scission of 2-substituted 3-halogenotetrahydro-pyrans and -furans, 1983–96

BROMINE

Regiospecific incorporation of no-carrier-added radiobromine and radioiodine into aromatic rings *via* halogenodegermylation, 1687–92

Regiospecific no-carrier-added radiobromination and radioiodination of aryltrimethyl group IVb organometallics, 1941–8

BULNESENE

Total synthesis of (\pm)- β -bulnesene *via* intramolecular cycloaddition of a 2-substituted 3-oxidopyrylium, 1725–30

BUTANOL

Synthesis of (*R*)- and (*S*)-2-aminobutane from (*S*)- and (*R*)-2-aminobutanol, 919–22

BUTENOATE

Photochemical bromination of methyl (*E*)-2-methylbut-2-enoate with *N*-bromosuccinimide: formation of 4-bromo-2-methylbut-2-en-4-olide, 2353–60

BUTENOLIDE

Photochemical transformation of tetrabromofuran by oxygen into 2,3,4,4-tetrabromobut-2-en-4-olide in the solid state, 45–52
 Synthesis of lucidones, 453–6

Photochemical bromination of methyl (*E*)-2-methylbut-2-enoate with *N*-bromosuccinimide: formation of 4-bromo-2-methylbut-2-en-4-olide, 2353–60

BUTOXYL RADICAL

Benzenesulphenanilidyl radicals. Part 3. Reactions of 4'-substituted benzenesulphenanilides with *t*-butoxyl radicals, 1577–82

BUTYROLACTONE

Synthesis of paniculides B and C, 1509–16

CALCITROIC ACID

Unsaturated steroids. Part 12. Synthesis of 1 α ,3 β -dihydroxy-24-nor-9,10-secochola-5,7,10(19)trien-23-*oi*c (calcitroic acid) and of the cholic- and 25-homocholic acid analogues, 1331–6

CALENDIC ACID

The biosynthesis of calendic acid, octadeca-(8*E*,10*E*,12*Z*)-trienoic acid, by developing marigold seeds: origins of (*E*,*E*,*Z*) and (*Z*,*E*,*Z*) conjugated triene acids in higher plants, 2425–34

CAMPORNITRIMINE

Reactions of the potassium salt of 1,7,7-trimethyl-*N*-nitrobicyclo[2.2.1]heptan-2-imine with bromine and nitrous acid: synthesis of 3-*exo*-bromo-1,7,7-trimethyl-*N*-nitrobicyclo[2.2.1]heptan-2-imine, 3-*endo*-bromo-1,7,7-trimethyl-*N*-nitrobicyclo[2.2.1]heptan-2-imine, 1,7,7-trimethyl-*N*-nitro-3-nitrosobicyclo[2.2.1]hept-2-en-2-amine and their reactions with nitrogen nucleophiles, 1251–6

CAPTO-DATIVE EFFECT

Free radical chemistry. Part 3. Substituent effects in additions of ethers to fluorinated alkenes, 2209–14

CARBACYCLIN

Functionalised carbocycles from carbohydrates. Part 7. A route to carbacyclin from a D-glucose derivative. X-Ray crystal structure of 3-*endo*-benzoyloxy-2-*exo*-(1,3-diphenyl-1,3,2-diazaphospholan-2-yloxymethyl)-6-oxobicyclo[3.3.0]octane, 295–300

CARBAPENAM

Olivanic acid analogues. Part 3. Total synthesis of C(6 α)-methoxy-substituted 7-oxo-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylates, 2235–40

CARBAZOLE

S_N2' Type substitution reactions of 1-diphenylamino- and 1-carbazol-9-yl-pyridinium cations, 2155–8

Diels–Alder reactivity of pyrano[3,4-*b*]indol-3-ones, stable analogues of indole-2,3-quinodimethanes, 2505–8

Generation and rearrangement of 4*aH*-carbazoles, 2725–32

CARBENIUM ION

A stereochemical test for ether-oxygen participation and oxonium ion formation in the acetolysis of 3-tetrahydropyranyl brosylate, 1323–6

CARBODI-IMIDE

Intramolecular reaction between nitro and carbodi-imide groups; a new synthesis of 2-arylbenzotriazoles, 1471–80

CARBOHYDRATE

Functionalised carbocycles from carbohydrates. Part 7. A route to carbacyclin from a D-glucose derivative. X-Ray crystal structure of 3-*endo*-benzoyloxy-2-*exo*-(1,3-diphenyl-1,3,2-diazaphospholan-2-yloxymethyl)-6-oxobicyclo[3.3.0]octane, 295–300

Unsaturated carbohydrates. Part 27. Synthesis of (-)-*exo*-brevicomin from a nona-3,8-dienulose derivative, 301–4

The photochemistry of ketones derived from carbohydrates. Part 10. A study of stereochemical influences on photo-induced rearrangements and ring expansions of 3-oxacyclopentanones using 1,2-*O*-isopropylidene furanos-3-olose derivatives, 575–82

Syntheses of β -D-arabinofurano[1',2':4,5]oxa(thia)zolidines, 779–84

Anthracyclonones. Part 3. Use of di-isopropylidene-D-glucose and a modified Marschalk reaction to introduce a tertiary carbinol function into ring D of anthracyclonones, 875–82

Branched-chain sugars. Part 17. A synthesis of L-rubranitrose (2,3,6-trideoxy-3-*C*-methyl-4-*O*-methyl-3-nitro-L-xylo-hexopyranose), 1067–72

Branched-chain sugars. Part 18. Synthesis of D-rubranitrose (2,3,6-trideoxy-3-*C*-methyl-4-*O*-methyl-3-nitro-D-xylo-hexopyranose) and a derivative of D-kijanose (2,3,4,6-tetradeoxy-4-methoxycarbonylamino-3-methyl-3-nitro- α -D-xylo-hexopyranose), 1073–80

Acid-catalysed benzylation and allylation by alkyl trichloroacetimidates, 2427–50

Unsaturated carbohydrates. Part 28. Observations on the conversion of 6-deoxyhex-5-enopyranosyl compounds into 2-deoxyinosose derivatives, 2413–6

Studies on sugar nitro-olefins. Part 6. Synthesis of (3*R*)-3,5,6,7-tetrahydro-2-hydroxyimino-3-(penta-*O*-acetyl-pentitol-1-yl)benzofuran-4(2*H*)-ones from 3,4,5,6,7-penta-*O*-acetyl-1,2-dideoxy-1-nitrohept-1-enitols and cyclohexane-1,3-diones, 2695–700

CARBONYL ACTIVATION

A kinetic study of phosphinic carboxylic mixed anhydrides, 1617–22

CARBOXIMIDE

Photocyclization of *N*-(dialkylaminoalkyl) aromatic 1,2-dicarboximides. X-Ray molecular structure of a stereoisomer of 4-benzyl-2-hydroxy-3-phenyl-4,6-diazatricyclo[6.4.0.0^{2,6}]dodeca-1(12),8,10-trien-7-one, 121–30

CARBOXYLATE ANION

Proton-assisted transport of amino acid and related polycarboxylate anions *via* polyammonium macrocycles, 615–20

CAROTENOID

Revised structures of the two C₅₀ carotenoids C.p. 450 and C.p. 473 from *Corynebacterium poinsettiae*, 601–4

CATABOLISM

Stereochemistry of catabolism of the DNA base thymine and of the anti-cancer drug 5-fluorouracil, 1363–72

CATALYSIS

Platinum complexes in organic synthesis: catalytic *ortho*-alkenylation of anilines, 1095–8

CATECHIN

Synthesis of condensed tannins. Part 13. The first 2,3-*trans*-3,4-*cis*-procyanidins: sequence of units in a 'trimer' of mixed stereochemistry, 669–76

CATION RADICAL

Acid-induced broadening of ¹H n.m.r. signals in the 6-hydroxychroman and 5-hydroxydihydrobenzofuran series, 1301–10

C.D.

Structure and absolute stereochemistry of thioacetal sulphoxides obtained by fungal metabolism of 2-alkyl-1,3-dithianes, 1547-52

CEPHALOSPORIN

Reaction of cerium(IV) ammonium nitrate with 3-methylcephalosporins: synthesis of a 2-methoxy-3-methylcephalosporin, 1523-6

CEPHALOSPORIUM APHIDICOLA

Structures of the cephalosporolides B-F, a group of C₁₀ lactones from *Cephalosporium aphidicola*, 843-8

Studies in terpenoid biosynthesis. Part 32. The incorporation of aphidicol-16-ene and aphidicolan-16 β -ol into the diterpenoid aphidicolin by the fungus *Cephalosporium aphidicola*, 2705-8

CEPHALOSPOROLIDE

Structures of the cephalosporolides B-F, a group of C₁₀ lactones from *Cephalosporium aphidicola*, 843-8

CERIUM AMMONIUM NITRATE

Reaction of cerium(IV) ammonium nitrate with 3-methylcephalosporins: synthesis of a 2-methoxy-3-methylcephalosporin, 1523-6

CHARGE TRANSFER

3aH-Indenes. Part 3. Base induced dimerisation of 3,7a-dihydro-4,7a-dimethyl-5H-inden-5-one. X-Ray structure determination of the hexacyclic dimer system, 711-8

CHEILANTHANE

Synthesis of the key intermediate (\pm)-18,19-dinor-14 α H-cheilanthane-12,15-dien-17-one and its transformation into the geochemical marker 18,19-dinor-13 β H,14 α H-cheilanthane and the marine-type sesterterpene methyl scalar-17-en-25-oate, 1227-32

CHELATION

Coenzyme models. Part 39. Synthesis and properties of a flavin with a fused phenolate moiety which serves as a metal chelation site, 565-74

CHEMOSELECTIVE OXIDATION

A highly effective ligand-bound ruthenium catalyst for chemoselective degradation of aromatic rings to carboxylic acids, 2605-10

CHIRAL

Chiral synthesis of 3-substituted morpholines *via* serine enantiomers and reductions of 5-oxomorpholine-3-carboxylates, 2577-80

CHIRAL SYNTHESIS

Chiral synthesis of (+)-eburnamine, (-)-eburnamenine, and (-)-eburnamonine, 305-10

CHLAMYDOCIN

The solution structure of [Ala⁴]-desdimethylchlamydocin: a ¹H n.m.r. relaxation study, 245-50

CHLORAMINE-T

3aH-Indenes. Part 4. Formation and reactions of some dienone intermediates, 719-22

CHLOROBIUM VIBRIOFORME

Bacteriochlorophylls-d from *Chlorobium vibrioforme*: chromatographic separations and structural assignments of the methyl bacteriopheophorbides, 1099-114

CHLOROHYDRIN

Formation and X-ray crystal structure of ethyl 2-amino-1-oxo-inden-3-carboxylate, 405-8

CHOLESTANE

Stereoselective synthesis of the 20-hydroxyecdysone side chain, 557-60

Functionalisation of saturated hydrocarbons. Part 3. The oxidation of 3 β ,5 α ,6 β -triacetoxysterane using the Gif system, 2109-18

CHOLESTANOL

The selective oxidation of protected cholestanol derivatives using the Gif system, 583-6

CHOLESTANOLACTONE

Structure of the steroidal lactone isolated from turtle bile: (22S,25R)-3 α ,7 α ,12 α -trihydroxy-5 β -cholestano-26,22-lactone, 2701-4

CHOLESTANONE

Conversion of nor-ketones into prochiral terminal methylene groups: synthesis of (24E)- and (24Z)-[28-²H]ergosta-5,24(28)-dien-3 β -ols, 595-600

CHOLIC ACID

An efficient and short degradation of the cholic acid side chain: a new method for the preparation and dehydrogenation of 4,5-dihydro-oxazoles, 1865-70

CHROMAN

Studies of chromenes. Part 5. Reaction of the Vilsmeier reagent with 7-methoxy-2,2-dimethylchroman-4-ones. 4-Chloro-7-

methoxy-2,2-dimethyl-2H-chromenes and their nitration products, 1127-36

Acid-induced broadening of ¹H n.m.r. signals in the 6-hydroxychroman and 5-hydroxydihydrobenzofuran series, 1301-10

CHROMATOGRAPHIC OPTICAL RESOLUTION

Liquid chromatographic optical resolution of 2,2'-spirobibenz[e]indan derivatives and absolute stereochemistry as determined by the C.D. exciton chirality method, 1845-8

CHROMEN

Studies of chromenes. Part 5. Reaction of the Vilsmeier reagent with 7-methoxy-2,2-dimethylchroman-4-ones. 4-Chloro-7-methoxy-2,2-dimethyl-2H-chromenes and their nitration products, 1127-36

CHROMONE

Lithiation in flavones, chromones, coumarins, and benzofuran derivatives, 799-808

Reactions of formylchromone derivatives. Part 5. Transformations of 3-formylchromones into pyrroles and pyridines, 1747-56

CHRYSANTHEMUM CINERARIAEFOLIUM

Biosynthesis of the pyrethrins: unsaturated fatty acids and the origins of the retrolone segment, 1393-400

CINCHONA ALKALOID

Michael additions catalysed by cinchona alkaloids bound *via* their vinyl groups to preformed crosslinked polymers 2327-32

CIRCULAR DICHROISM

Asymmetric synthesis of 3-methyl-2-phenyl-1,4-benzodioxanes. Absolute configuration of the neolignans eusiderin and eusiderin C and D, 2555-8

CLADOSPORIUM PHLEI

Secondary mould metabolites. Part 13. Fungal perylenequinones: phleichrome, isophleichrome, and their endoperoxides, 1387-92

CLAISEN REARRANGEMENT

Total synthesis of (\pm)- and (+)-latifine, 2447-54

Partially fluorinated heterocyclic compounds. Part 20.

Isomerisations of pentafluorophenyl and 1,3,4,5,6,7,8-heptafluoro-2-naphthyl prop-2-ynyl ethers. Reactions of the naphthyl ether and 2-fluoromethyl-4,5,6,7,8,9-hexafluoronaphtho-[2,1-b]furan with 2,3-dimethylbut-2-ene and with 3,3-dimethylbut-1-ene, 2637-42

Partially fluorinated heterocyclic compounds. Part 21.

Isomerisations of pentafluorophenyl and 1,3,4,5,6,7,8-heptafluoro-2-naphthyl prop-2-ynyl sulphides: differing courses of reactions of the naphthyl sulphides and ethers in glass and nickel apparatus. Considerations of mechanism, 2643-50

COBALT

Radical-cations as intermediates in the oxidation of alkenes by metal ions, 1087-94

CODEINONE

An efficient synthesis of 14 β -aminocodeinone from thebaine, 1443-6

COENZYME MODEL

Coenzyme models. Part 39. Synthesis and properties of a flavin with a fused phenolate moiety which serves as a metal chelation site, 565-74

COMBRETUM MOLLE

The characterisation of mollic acid 3 β -D-xyloside and its genuine aglycone mollic acid, two novel 1 α -hydroxycycloartenoids from *Combretum molle*, 1711-6

CONFORMATION

The solution structure of [Ala⁴]-desdimethylchlamydocin: a ¹H n.m.r. relaxation study, 245-50

¹H N.m.r. studies of the structure of ristocetin A and of its complexes with bacterial cell wall analogues in aqueous solution, 949-56

Furan derivatives. Part 6. On effect of ring size in synthesis of 4,5-dihydro-3H-naphtho[1,8-bc]furans and their analogues, 1001-6

High-pressure synthesis, structures, and conformational properties of some derivatives of 7-azabicyclo[2.2.1]heptane. X-Ray determination of *endo*-10-benzoyl-4-phenyl-4,10-diazatricyclo[5.2.1.0^{2,6}]dec-8-ene-3,5-dione and *exo*-10-acetyl-4-phenyl-4,10-diazatricyclo[5.2.1.0^{2,6}]decane-3,5-dione, 1277-84

N.M.R. spectra and conformations of 9,10-dihydroanthracenes, 1849-58

X-Ray crystal and molecular structures of three 9,10-dihydroanthracenes, 1859-64

β -Halogeno ether synthesis of olefinic alcohols: stereochemistry and conformation of 2-substituted 3-halogenotetrahydro-pyran and furan precursors, 1971-82

CONFORMATION (contd)

The conformation of fujenal, a seco-ring B *ent*-kaurenoid diterpene, 2493–6

CONFORMATIONAL CONTROL

Ketene. Part 23. Conformational control of the addition reactions of ketenes with *N*-phenylnitrones, 1837–44

CONJUGATE ADDITION

Convergent syntheses of 9-deoxy-12-phenylthioprostanooids and 9-deoxy- $\Delta^{9(12)}$ -PGD₁ derivatives, 145–52

CONOTOXIN

Peptide synthesis. Part 7. Solid-phase synthesis of conotoxin G1, 2065–74

COPPER

2 β -Alkyl derivatives of gibberellin A₁, 837–42

The synthesis of thiathromboxane analogues, 893–8

Conjugate addition of lithium methylcuprates to a gibberellin-1(10)en-2-one; preparation of 10-*epi*-gibberellin A₅₃, 1147–50

S_N2 and S_N2' alkylation of some gibberellin allylic lactones by lithium methylcuprates, 1151–6

Methylation of adenosine and related nucleosides with trimethylselenium hydroxide, and regioselective effects of copper(II) ions, 1327–30

New synthetic routes to spiroacetals. The 3,4-dihydro-2*H*-pyran approach to (±)-talaromycin B, 1879–84

COPPER CATALYSIS

Reaction of ketenes. Part 18. Catalysed reactions between α -diazocarbonyl compounds and ketene acetals, 289–94

COPROPORPHYRIN-III OXIDASE

Biosynthesis of porphyrins and related macrocycles. Part 25. Synthesis of analogues of coproporphyrinogen-III and studies of their interaction with coproporphyrinogen-III oxidase from *Euglena gracilis*, 1699–710

CORDIALIN

Crystal structure of cordialin A acetate, an unusual dammarane triterpene hemiacetal, 323–6

CORYNEBACTERIUM POINSETTIAE

Revised structures of the two C₅₀ carotenoids C.p. 450 and C.p. 473 from *Corynebacterium poinsettiae*, 601–4

COUMARIN

Lithiation in flavones, chromones, coumarins, and benzofuran derivatives, 799–808

CROWN ETHER

Comparison of the steric barriers in three- and two-bladed propeller crowns, 1019–24

3*H*-Azepines and related systems. Part 3. Mono- and bis-2-alkoxy-3*H*-azepine-3-carboxylates and -3-carboxamides by photolysis of mono- and di-*o*-azidobenzoyl derivatives of glycols and diamines. Some acyclic crown ether analogues, 1121–6

Formation of complexes between aza derivatives of crown ethers and primary alkylammonium salts. Part 8. 12-Crown-4, 15-crown-5, 21-crown-7, and 24-crown-8 derivatives, 1637–44

Binding and transport of alkali metal ions by synthetic analogues of nactins, 1717–24

CRYSTAL STRUCTURE

Photocyclization of *N*-(dialkylaminoalkyl) aromatic 1,2-dicarboximides. *X*-Ray molecular structure of a stereoisomer of 4-benzyl-2-hydroxy-3-phenyl-4,6-diazatricyclo[6.4.0.0^{2,6}]dodeca-1(12),8,10-trien-7-one, 121–30

Partial synthesis of a trachylobagibberellin analogue, 207–12

Functionalised carbocycles from carbohydrates. Part 7. A route to carbacyclin from a *D*-glucose derivative. *X*-Ray crystal structure of 3-*endo*-benzoyloxy-2-*exo*-(1,3-diphenyl-1,3,2-diazaphospholan-2-yl)oxymethyl-6-oxobicyclo[3.3.0]octane, 295–300

Crystal structure of cordialin A acetate, an unusual dammarane triterpene hemiacetal, 323–6

Photo-induced transformations. Part 76. Ring expansion through a [2 + 2] photocycloaddition- β -scission sequence; the photorearrangement of *endo*-4-cyanotricyclo[6.4.0.0^{2,5}]dodeca-1(12),6,8,10-tetraen-5-yl hypoiodite to 4-cyanotricyclo[6.4.0.0^{2,4}]dodeca-1(12),6,8,10-tetraen-5-one.² *X*-Ray crystal structure of 4-cyanotricyclo[6.4.0.0^{2,4}]dodeca-1(12),6,8,10-tetraen-5-one, 327–30

Formation and *X*-ray crystal structure of ethyl 2-amino-1-oxo-inden-3-carboxylate, 405–8

Ovine III-thrift in Nova Scotia. Part 10. Palladium and rhodium complexes as reagents in the investigation of isocyanide metabolites of *Trichoderma hamatum*, 441–6

Synthesis and stereochemistry of substituted bi- and tricyclic 4,5-dihydropyrazoles, 481–6

Acid-catalysed intramolecular *C*-alkylation in β,γ -unsaturated diazomethyl ketones. Part 4. Synthesis of functionalised hydrophenanthrene and benzocyclodecenone derivatives *via* novel fragmentation reactions, and *X*-ray structural analyses of two angularly substituted hydrophenanthrene derivatives, 505–14

A new atisane diterpene: *ent*-16 α -hydroxyatis-13-en-3-one from *Androstachys johnsonii* Prain, 703–10

3*aH*-Indenes. Part 3. Base induced dimerisation of 3,7*a*-dihydro-4,7*a*-dimethyl-5*H*-inden-5-one. *X*-Ray structure determination of the hexacyclic dimer system, 711–8

Oxo-bridged compounds of iodine(III): syntheses, structure, and properties of μ -oxo-bis[trifluoroacetato(phenyl)iodine], 757–64

Structures of the cephalosporolides B–F, a group of C₁₀ lactones from *Cephalosporium aphidicola*, 843–8

Metabolic products of *Phomopsis oblonga*. Part 1.

3*a*,5*a*,6,7,8,9,9*a*,9*b*-octahydro-7,9*b*-dimethylnaphtho[1,2-*c*]furan-1(3*H*)-one (Oblongolide), 861–4

Pyrrrole studies. Part 32. A novel ring-cleavage reaction of the pyridazine ring during the reaction of 6*H*-pyrrolo[3,4-*d*]pyridazines with dimethyl acetylenedicarboxylate, 899–902

Total synthesis of (+)-(1,2,3,4,5)-2,3,4,5-tetrahydrocyclohexane-1-methanol and (+)-(1,3/2,4,5)-5-amino-2,3,4-trihydrocyclohexane-1-methanol [(+)-validamine]. *X*-Ray crystal structure of (3*S*)-(+)2-*exo*-bromo-4,8-dioxatricyclo[4.2.1.0^{3,7}]nonan-5-one, 903–6

Cyclopropacycloheptathiophenones and thiols: unexpected rearrangement with dithiols leading to benzo- and cyclo-octa-thiophenes. Spectroscopic and mechanistic studies, 983–90

Comparison of the steric barriers in three- and two-bladed propeller crowns, 1019–24

4-Chloromercurioandrosta-4,6-diene-3,17-dione: preparation, *X*-ray structure determination, and potential utility, 1049–54

High-pressure synthesis, structures, and conformational properties of some derivatives of 7-azabicyclo[2.2.1]heptane. *X*-Ray determination of *endo*-10-benzoyl-4-phenyl-4,10-diazatricyclo[5.2.1.0^{2,6}]dec-8-ene-3,5-dione and *exo*-10-acetyl-4-phenyl-4,10-diazatricyclo[5.2.1.0^{2,6}]decane-3,5-dione, 1277–84

Synthesis of ara-doridocine, a new arabinosyl nucleoside resistant to adenosine deaminase. *X*-Ray structure determination of 6-*N*,9(*N*)-diacetyl-1(*N*)-methylisoguanine, 1315–22

Unsaturated steroids. Part 13. Further observations upon the formation of aromatic ring c steroids: *X*-ray structure of 22,23-dibromo-10-methyl-19-noranthraergosta-5,7,9(10),14-tetraene and of 2 β ,3 α ,22,23-tetrabromo-18-nor-17-isoergosta-8(9),11,13(14)-triene, 1337–42

The chemistry of fungi. Part 80. The *X*-ray crystallographic structure of 8*a* β -bromo-5*a* α ,5,6,7,8,8*a*-hexahydro-1,7*a*-dihydroxy-8*a*-methoxycarbonylxanthone monohydrate, a rearrangement product of methyl 2*a*-bromo-2 β -(2,6-dimethoxybenzoyl)-7-oxabicyclo[2.2.1]heptane-3 β -carboxylate: a novel route to xanthenes: the synthesis of pinselin, 1343–8

The molecular and crystal structure of (+)-2,3-*trans*-3,4-*trans*-leucocyanidin [(2*R*,3*S*,4*R*)-(+)3',3',4',4',5',7-hexahydroxyflavan] dihydrate, and comparison of its heterocyclic ring conformation in solution and the solid state, 1413–8

The synthesis and chemistry of 4-aza-azulene, 1793–802

Ketene. Part 23. Conformational control of the addition reactions of ketenes with *N*-phenylnitrones, 1837–44

X-Ray crystal and molecular structures of three 9,10-dihydroanthracenes, 1859–64

The preparation and rearrangements of 5-acyl-2-phenyl-4-substituted 6*H*-1,3-thiazines. *X*-Ray molecular structure of 3-acetyl-2-ethoxycarbonyl-4-(3-oxobutylthio)-5-phenylpyrrole, 1875–8

The *X*-ray molecular structures of methyl 4,5,7,8,9,10,11,12,13,14-decahydro-7,9-dioxo-8,15-methenopyrrolo[3,2,1-*op*][1]benzazacyclododecine-16-carboxylate, methyl (*Z*)-1',2',4',5'-tetrahydro-2,4'-dioxospiro(cycloheptane-1,6'-[6*H*]pyrrolo[3,2,1-*ij*]quinolin)-5'-ylideneacetate, and methyl (*Z*)-1,1*a*,2,3,4,8,9,9*a*-octahydro-1-methoxycarbonylmethyl-11-methoxycarbonylmethylene-12-oxo-1*b*,4*a*-epoxyethanoindolizino[2,3,4,5,6-*ijklm*]carbazole-1-carboxylate, 1921–6

Oxidation of 2,4-dinitrobenzenesulphenamide in the presence of 2,3,4,5-tetraphenylpyrrole, 1967–70

Lichens and fungi. Part 17. The synthesis and absolute configuration at C-20 of the (*R*)- and (*S*)-epimers of some 29-substituted lupane derivatives and of some 30-norlupan-20-ol derivatives and the crystal structure of (20*R*)-3 β -acetylupan-29-

CRYSTAL STRUCTURE (contd)

- ol, 2051-6
The absolute stereochemical characterization of two new jatrophone diterpenes from *Euphorbia esula*, 2075-82
Olivanic acid analogues. Part 2. Total synthesis of some C(6)-substituted 7-oxo-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylates, 2219-34
Structural studies on bio-active compounds. Part 3. Re-examination of the hydrolysis of the antimalarial drug pyrimethamine and related derivatives and crystal structure of a hydrolysis product, 2267-76
Use of π -allyltricarbornyliron lactam complexes in the preparation of nocardicin derivatives: synthesis of (-)-3-oxo-1-[(*p*-benzyloxyphenyl)benzyloxycarbonylmethyl]azetid-2-one, 2375-82
The conformation of fujenal, a seco-ring B *ent*-kaurenoid diterpene, 2493-6
Enamine chemistry. Part 29. Synthesis of adamantane derivatives from α,β -unsaturated acid chlorides and 4,4-disubstituted cyclohexanone enamines. Multiple [3,3] sigmatropic rearrangement transition state stereochemistry. *X*-Ray analysis, 2559-72
Rearrangement reactions of 1,3,6-triaryl-1,4-dihydro-*s*-tetrazines leading to 2,4-diarylquinazolines, 1-anilino-3,5-diaryl-1*H*-1,2,4-triazoles, 1,3,5-triaryl-1*H*-1,2,4-triazoles, and 2,5-diaryl-1*H*-1,3,4-oxadiazoles. *X*-Ray structure determination of 6-isopropyl-2,4-diphenylquinazoline, 2709-12
1 α -Hydroxyalliolicolide, a sesquiterpenoid metabolite of *Marasmius alliaceus*. *X*-Ray molecular structure of 1 α -hydroxyalliolicolide, 2749-52
The stereoselectivity of addition of *N*-benzyl-*C*-alkylnitrones to methyl crotonate. *X*-Ray crystal structure of (3*RS*,4*SR*,5*RS*)-2-benzyl-4-methoxycarbonyl-5-methyl-3-[(4*RS*)-2,2,5,5-tetramethyl-1,3-dioxolan-4-yl]isoxazolidine, 2753-62
- CUNNINGHAMELLA ELEGANS**
Microbiological transformations, Part 6. Microbiological transformations of acyl derivatives of indoline, 1,2,3,4-tetrahydroquinoline, 1,2,3,4-tetrahydroisoquinoline and 2,3,4,5-tetrahydro-1*H*-1-benzazepine with the fungus *Cunninghamella elegans*, 1381-6
- CUPRATE**
Regio- and stereo-selective desulphurizative γ -substitution of α -substituted β -methylallyl sulphoxides and sulphones with lithium dialkylcuprates providing trisubstituted olefins, 1171-6
- CURTIUS REARRANGEMENT**
Some applications of the Curtius rearrangement, 2277-82
- CYANAMIDE**
A new general synthesis of 2-(*N*-mono- and *N*-di-substituted amino)thiazoles, 1623-6
- CYANATION**
5,6,7,8-Tetrahydroquinolines. Part 7. Synthesis of 8-cyano-5,6,7,8-tetrahydroquinolines; di-isopropylcyanamide, a new reagent for cyanation of organometallics, 2479-82
- CYANOACETAMIDE**
Synthesis of heterocyclic compounds. Part 46. The reactions of malonamide and 2-cyanoacetamide with substituted propenones, 1681-6
- CYANOBACTERIA**
Structural studies on cyanoginosins-LR, -YR, -YA, and -YM, peptide toxins from *Microcystis aeruginosa*, 2747-8
- CYANOBOROHYDRIDE**
The reduction of tertiary *N*-styrylenamides, 1781-6
- CYANOGEN BROMIDE**
Activated nitriles in heterocyclic synthesis: reaction of cyanogen bromide with some functionally substituted enamines, 1499-502
- CYANOGINOSIN**
Structural studies on cyanoginosins-LR, -YR, -YA, and -YM, peptide toxins from *Microcystis aeruginosa*, 2747-8
- CYANOHYDRIN**
Introduction of pharmacophoric groups into polycyclic systems. Part 3. Amine derivatives of adamantane and diaza-adamantane, 2033-8
- CYCLISATION**
Cyclisation of Schiff bases containing amide or hydroxamic acid groups to 1,2-dihydroquinazolin-4-ones; thermal decomposition reactions of the 1,2-dihydroquinazolin-4-ones, 2779-84
Synthesis of cyclopropanes and dihydrofurans from α -chlorovinyl sulphones, 2785-8

CYCLITOL

- Total synthesis of (+)-(1,2,3/4,5)-2,3,4,5-tetrahydrocyclohexane-1-methanol and (+)-(1,3/2,4,5)-5-amino-2,3,4-trihydrocyclohexane-1-methanol [(+)-validamine]. *X*-Ray crystal structure of (3*S*)-(+)-2-*exo*-bromo-4,8-dioxatricyclo[4.2.1.0^{3,7}]nonan-5-one, 903-6
Synthetic studies on antibiotic validamycins. Part 11. Synthesis of validamycin A, 2369-74

CYCLIZATION

- Photochemistry of *N*-alk-4-enyl- and *N*-alk-5-enyl-phthalimides: two different types of cyclization reaction, 2025-32

CYCLOADDITION

- A formal total synthesis of ipalbidine, 261-6
Synthesis of peri-fused indolizines and azaindolizines by intramolecular 1,3-dipolar cycloaddition of 3-(phenylpropynoyloxyalkyl)pyridine *N*-ylides, 379-82
Chemistry of ketene acetals. Part 8. Stereochemistry of the reaction of 1,1-dimethoxypropene with aldehydes, 561-4
3*aH*-Indenes. Part 5. Preparation and reactions of 3-methoxy- and 3-trimethylsilyloxy-3*a*-substituted-3*aH*-indenes, 723-30
Tricyclic [10]annulenes. Part 6. Preparation and properties of 7*b*-ethyl- and 7*b*-isopropyl-7*bH*-cyclopent[*cd*]indenes, 731-4
Reactions of transient *C*-nitrosocarbonyl compounds with dienes, mono-olefins, and nucleophiles, 883-6
Cycloadducts of *C*-nitrosocarbonyl compounds and ergosteryl acetate; [3,3]sigmatropic rearrangements of *N*-aroyl-3,6-dihydro-1,2-oxazines, 887-92
Functionalisation of alkenes by a cycloaddition-cycloreversion sequence. Part 2. Anionic cycloreversion reactions of 2,5-dihydrothiophene derivatives, 1161-6
Cycloaddition reactions of 1,4,2-dithiazole-5-thiones, 1205-8
Benzocyclo-octenes. Part 4. Benzene and dibenzo[*a,e*]-cyclo-octene synthesis *via* benzocyclobutene, 1407-12
Formation and reactions of *C*-nitrosoformate esters, a new class of transient dienophiles, 1437-42
An efficient synthesis of 14 β -aminocodeinone from thebaine, 1443-6
Synthesis of novel fused β -lactams by intramolecular 1,3-dipolar cyclo-additions. Part 7. (9*RS*,9*aRS*)-9,9*a*-Dihydro-5-methyl-8-oxo-9-phenoxycetamido-8*H*-azeto[1,2-*a*]-*v*-triazolo[5,1-*c*]pyrazine-6-carboxylic acids and (3*bRS*,4*RS*,7*SR*)-4,5-dihydro-5-oxo-4-phenoxycetamido-3*bH*-azeto[1',2':3,4]imidazo[1,5-*c*]-*v*-triazole-7-carboxylic acid, 1491-8
Nitrile sulphides. Part 3. Thermal fragmentation of 1,3,4-oxathiazoles: formation of nitrile sulphides in a retro-1,3-dipolar cycloaddition reaction, 1517-22
Ethyl and methyl thioacetates, dienophilic thioaldehydes formed from sulphenyl chlorides by 1,2-elimination, 1541-6
Total synthesis of (\pm)- β -bulnesene *via* intramolecular cycloaddition of a 2-substituted 3-oxidopyrylium, 1725-30
Addition and cycloaddition reactions of β -chloroazo-olefins, 1741-6
Ketene. Part 23. Conformational control of the addition reactions of ketenes with *N*-phenylnitrones, 1837-44
Ketene enamines as dipolarophiles towards *C*-azidohydrazones, 1903-6
Synthesis of novel fused β -lactams by intramolecular 1,3-dipolar cycloadditions. Part 8. 6,7,7*a*,7*b*-Tetrahydro-3-methyl-6-oxo-1*H*-azeto[1,2-*a*]azirino[2,1-*c*]pyrazine-4-carboxylic acids, 1927-34
C-Nitrosoformamides, a new class of transient dienophiles formed by oxidation of *N*-hydroxyureas, 2469-74
Generation and rearrangement of 4*aH*-carbazoles, 2725-32
The stereoselectivity of addition of *N*-benzyl-*C*-alkylnitrones to methyl crotonate. *X*-Ray crystal structure of (3*RS*,4*SR*,5*RS*)-2-benzyl-4-methoxycarbonyl-5-methyl-3-[(4*RS*)-2,2,5,5-tetramethyl-1,3-dioxolan-4-yl]isoxazolidine, 2753-62
Stereoselective addition of benzonitrile oxide and *N*-benzyl-*C*-phenylnitrone to (5*RS*,6*SR*)-5,6-dihydro-6-ethyl-5-methylpyran-2(2*H*)-one. Crystal structure of (1*RS*,4*RS*,5*RS*,6*RS*,9*SR*)-8-benzyl-1,5-dimethyl-4-ethyl-9-phenyl-3,7-dioxo-8-azabicyclo[4.3.0]nonan-2-one, 2763-8
Acid-catalysed rearrangement of 3-acyl-6-alkoxy-5,6-dihydro-4*H*-1,2-oxazines: a route to 3-alkoxy-pyridine 1-oxides, 2769-74
- CYCLOALKANONE**
Synthesis and stereochemistry of substituted bi- and tricyclic 4,5-dihydropyrazoles, 481-6
- CYCLOARTANE**
The characterisation of mollic acid 3 β -*D*-xyloside and its genuine aglycone mollic acid, two novel 1 α -hydroxycycloartenoids from

CYCLOARTANE (contd)*Combretum molle*, 1711–6**CYCLOBUTABENZENE**

A novel synthetic approach to isoatisirene-related compounds via an intramolecular Diels-Alder reaction, 927–34

CYCLOBUTANAPHTHALENE

Cyclobutarenes. Part 1. Synthesis of cyclobutanaphthalene and phenanthrene derivatives, 2689–94

CYCLOBUTANESynthesis of a cyclobutanone analogue of a β -lactam antibiotic, 391–8**CYCLOBUTAPHENANTHRENE**

Cyclobutarenes. Part 1. Synthesis of cyclobutanaphthalene and phenanthrene derivatives, 2689–94

CYCLODEXTRIN

Cyclodextrin-promoted free-radical dediazonation of benzenediazonium ions, 991–6

CYCLOHEPTACENAPHTHYLENE

Synthesis and properties of acepleiadylene-5,6-dione and acepleiadylene-5,8-dione, 785–94

CYCLOHEXADIENIMINESpirodienones. Part 5. The synthesis and reactions of *N*-sulphonylcyclohexadienimines, 1829–36**CYCLOHEXADIENONE**Synthesis of a 4-acylcyclohexa-2,5-dienone: 3,4-dihydro-3,3,8a-trimethylnaphthalene-1,6(2*H*,8*aH*)-dione, 631–403*aH*-Indenes. Part 3. Base induced dimerisation of 3,7*a*-dihydro-4,7*a*-dimethyl-5*H*-inden-5-one. *X*-Ray structure determination of the hexacyclic dimer system, 711–83*aH*-Indenes. Part 4. Formation and reactions of some dienone intermediates, 719–22**CYCLONUCLEOSIDE**

Systematic general synthesis of purine 8,5'-imino and substituted imino cyclonucleosides, 2337–46

Synthesis and properties of some hydrazo- and oxamido-bridged purine nucleosides, 2347–52

CYCLIOCTANONESilicon-mediated annulation. Part 2. A synthesis of β -alkoxy cyclooctanones via intramolecular directed aldol reactions, 2101–8**CYCLOPENTANE**Prostaglandins: a novel synthesis of \pm -PGF_{1 α} via cyclopentane-1,3-dione derivatives, 203–6**CYCLOPENTANOID**

Total synthesis of cyclopentanoic natural products, 2625–36

CYCLOPENTENE

Reactions involving fluoride ion. Part 31. Co-oligomers of perfluoro-1-methyl-1,3-diazacyclopent-2- and -3-ene, 53–6

CYCLOPENTINDENETricyclic [10]annulenes. Part 5. Phenol-keto tautomerism in the 2- and 5-hydroxy derivatives of 7*b*-methyl-7*bH*-cyclopent[*cd*]indene, 383–90Tricyclic [10]annulenes. Part 6. Preparation and properties of 7*b*-ethyl- and 7*b*-isopropyl-7*bH*-cyclopent[*cd*]indenes, 731–4Tricyclic [10]annulenes. Part 7. Preparation, properties, and reactions of 7*b*-benzyl-7*bH*-cyclopent[*cd*]indene, 735–40**CYCLOPHANE**

The synthesis of hetero-bridged [5](3,6)oxepinophanes, 2119–22

CYCLOPROPACYCLOHEPTATHIOPHENONE

Cyclopropacycloheptathiophenones and thiols: unexpected rearrangement with dithiols leading to benzo- and cyclo-octathiophenes. Spectroscopic and mechanistic studies, 983–90

CYCLOREVERSION

Functionalisation of alkenes by a cycloaddition-cycloreversion sequence. Part 2. Anionic cycloreversion reactions of 2,5-dihydrothiophene derivatives, 1161–6

CYCLOVITAMIN D₃A general method for the synthesis of 3,5-cyclovitamin D₃ and derivatives. A stereoselective synthesis of vitamin D₃, 1185–90**CYTOCHROME C OXIDASE**Isolation, crystallisation, and synthesis of the dimethyl ester of porphyrin *a*, the iron-free prosthetic group of cytochrome *c* oxidase, 135–44**CYSTEINE**

Peptide synthesis. Part 7. Solid-phase synthesis of conotoxin G1, 2065–74

CYSTEINE PROTECTIONPeptide synthesis. Part 6. Protection of the sulphhydryl group of cysteine in solid-phase synthesis using *N*_ε-fluorenylmethoxycarbonylamino acids. Linear oxytocin

derivatives, 2057–64

CYTOKININPurines, pyrimidines, and imidazoles. Part 61. Reaction of 6-alkylamino-4-chloro-5-nitropyrimidines with diethyl malonate, ethyl cyanoacetate, and ethyl acetoacetate and some derived pyrrolo[3,2-*d'*]pyrimidines related to the cytokinins, 187–90**DAMMARANE**

Crystal structure of cordialin A acetate, an unusual dammarane triterpene hemiacetal, 323–6

DAUNOMYCINONEStudies related to anthracyclines. Part 2. Synthesis of (\pm)-4-demethoxydaunomycinone, 525–34**DEACETALIZATION**Prostaglandins: a novel synthesis of \pm -PGF_{1 α} via cyclopentane-1,3-dione derivatives, 203–6**DEALKYLATION**

Nitrosamines from tertiary amines and dinitrogen tetroxide, 1661–4

Formation, dealkylation, and nucleophilic substitution of some mono- and di-alkoxy-pyrrodoazepines, 1911–6

A versatile two-stage synthesis of 2-substituted benzo[*b*]furans from (2-methoxyphenyl)ethynes, 2443–6**DEAMINATION**

Structural studies on bio-active compounds. Part 3. Re-examination of the hydrolysis of the antimalarial drug pyrimethamine and related derivatives and crystal structure of a hydrolysis product, 2267–76

Nitrosation of 2-amino-2-deoxy-D-galactitol; a model experiment for the study of reduced oligosaccharides derived from mucus glycoproteins, 2775–8

DECARBOXYLASE

Convenient synthesis of stereospecifically deuterated glycines from glutamic acid using a combination of enzymatic and chemical methods, 2389–92

DECARBOXYLATION

Some novel reactions of pyridinium-2-carboxylate betaines, 2167–72

DEHALOGENATION

Dehalogenation of 1-halogenothienyl-di- and -tetrahydroisoquinolines by sodium methoxide in dimethyl sulphoxide, 275–82

DEHYDRATASEStructure-activity studies with the $\alpha\beta$ -dihydroxyacid dehydratase of *Salmonella typhimurium*, 691–6**DEHYDRATION**Structure-activity studies with the $\alpha\beta$ -dihydroxyacid dehydratase of *Salmonella typhimurium*, 691–6**DEOXYINOSOSE**

Unsaturated carbohydrates. Part 28. Observations on the conversion of 6-deoxyhex-5-enopyranosyl compounds into 2-deoxyinosose derivatives, 2413–6

DEOXYRIBOFURANOSIDESynthesis and hydrolytic stability of 4-substituted pyrazolo[3,4-*d'*]pyrimidine 2'-deoxyribofuranosides, 2573–6**DEOXYTETRITOL**A new approach to (\pm)-2-amino-2-deoxytetritol derivatives, 935–40**DESULPHURIZATION**Regio- and stereo-selective desulphurization γ -substitution of α -substituted β -methylallyl sulphoxides and sulphones with lithium dialkylcuprates providing trisubstituted olefins, 1171–6**DIANION**sp²-Hybridized β -substituted organo-lithium, -sodium, and -potassium dianions; preparation, stability, and reactivity, 447–52**DIAZA-ADAMANTANE**

Introduction of pharmacophoric groups into polycyclic systems. Part 3. Amine derivatives of adamantane and diaza-adamantane, 2033–8

DIAZATRICYCLO-DECANEHigh-pressure synthesis, structures, and conformational properties of some derivatives of 7-azabicyclo[2.2.1]heptane. *X*-Ray determination of *endo*-10-benzoyl-4-phenyl-4,10-diazatricyclo[5.2.1.0^{2,6}]dec-8-ene-3,5-dione and *exo*-10-acetyl-4-phenyl-4,10-diazatricyclo[5.2.1.0^{2,6}]decane-3,5-dione, 1277–84**DIAZATRICYCLODODECATRIENE**Photocyclization of *N*-(dialkylaminoalkyl) aromatic 1,2-dicarboximides. *X*-Ray molecular structure of a stereoisomer of 4-benzyl-2-hydroxy-3-phenyl-4,6-diazatricyclo[6.4.0.0^{2,6}]dodeca-

DIAZATRICYCLODODECATRIENE (contd)

1(12),8,10-trien-7-one, 121–30

DIAZOCARBONYLReaction of ketenes. Part 18. Catalysed reactions between α -diazocarbonyl compounds and ketene acetals, 289–94**DIAZO COUPLING**Intramolecular diazo coupling of 2-aminophenylthiophenes. The formation of isomeric thieno[*c*]cinnolines, 131–4**DIAZO ESTER**Reduction of α -diazo- β -hydroxy esters to β -hydroxy esters: application in one of two convergent syntheses of a (2*S*)-22-hydroxy bile acid from fish bile and its (2*R*)-epimer, 493–8**DIAZOKETONE**Acid-catalysed intramolecular *C*-alkylation in β,γ -unsaturated diazomethyl ketones. Part 4. Synthesis of functionalised hydrophenanthrene and benzocyclohexenone derivatives *via* novel fragmentation reactions, and X-ray structural analyses of two angularly substituted hydrophenanthrene derivatives, 505–14Reactions of α -diazo ketones with selenium-based reagents. A general synthesis of α -chloro-, α -bromo-, α -phenylseleno-, α -acetoxy-, and α -methoxy- $\alpha\beta$ -unsaturated ketones, 2193–200**DIAZONIUM ION**

Cyclodextrin-promoted free-radical dediazonation of benzenediazonium ions, 991–6

DIBENZOPHOSPHOLE OXIDEUse of dibenzophosphole oxides in the Horner reaction: stereospecific formation of (*Z*)-stilbene from an *erythro*- β -hydroxyalkylphosphine oxide, 1953–6**DIBENZOQUINOLINE**A novel ring closure leading to 3,9-dihydroxyaporphines (3,9-dihydroxy-4*H*-dibenzo[*de,g*]quinolines). Part 2., 2455–62**DIBENZOQUINOLIZINE**

A photochemical route to the protoberberine skeleton, 1177–80

DICARBONYL CLEAVAGEA regioselective route to conjugated enones *via* α -phenylthio ketones, 1237–44

Heterocycles by cycloaddition. Part 7. Cycloaddition reactions of mesoionic dithiolones with fulvenes, 1245–8

DIELS-ALDER

Synthesis of intermediates related to 11-deoxyanthracyclinones, 39–44

Azo dienophiles. Diels–Alder reactions of 4-phenyl-1,2,4-triazole-3,5-dione and 5-phenylpyrazol-3-one with functionalised dienes, 71–4

Photocyclisation of enamides. Part 23. Reductive photocyclisation of enamides, 487–92

Studies related to anthracyclines. Part 2. Synthesis of (\pm)-4-demethoxydaunomycinone, 525–34Inter- and intra-molecular reactions of allene-1,3-dicarboxylic acid esters with 2-vinylfurans and 2-vinylthiophenes. A potential route to a *BC* ring precursor of the nagilactones, 747–56A novel synthetic approach to isoatisirene-related compounds *via* an intramolecular Diels–Alder reaction, 927–34

Reactions involving fluoride ion. Part 31. Remarkable reactivity of perfluorobicyclobutylidene, 1191–4

High-pressure synthesis, structures, and conformational properties of some derivatives of 7-azabicyclo[2.2.1]heptane. X-Ray determination of *endo*-10-benzoyl-4-phenyl-4,10-diazatricyclo[5.2.1.0^{2,6}]dec-8-ene-3,5-dione and *exo*-10-acetyl-4-phenyl-4,10-diazatricyclo[5.2.1.0^{2,6}]decane-3,5-dione, 1277–84Addition and cycloaddition reactions of β -chloroazo-olefins, 1741–6Intramolecular 'ene' reactions of transient, allylic, and homoallylic *C*-nitrosoformate esters, 1961–6Diels–Alder reactivity of pyrano[3,4-*b*]indol-3-ones, stable analogues of indole-2,3-quinodimethanes, 2505–8**DIELS-ALDER REACTION**

The synthesis of hetero-bridged [5](3,6)oxepinophanes, 2119–22

DIENE

Liquid-phase 1,4-diacetoxylation of conjugated dienes with tellurium(IV) oxide and alkali metal halides, 499–504

DIENONEElectrophilic substitution of β,γ -unsaturated esters and ketones using phenyl vinyl sulphoxide as a vinyl cation synthon, 661–8

Partially fluorinated heterocyclic compounds. Part 20.

Isomerisations of pentafluorophenyl and 1,3,4,5,6,7,8-heptafluoro-2-naphthyl prop-2-ynyl ethers. Reactions of the naphthyl ether and 2-fluoromethyl-4,5,6,7,8,9-hexafluoronaphtho-[2,1-*b*]furan with 2,3-dimethylbut-2-ene and with 3,3-dimethylbut-1-ene, 2637–42

Partially fluorinated heterocyclic compounds. Part 21.

Isomerisations of pentafluorophenyl and 1,3,4,5,6,7,8-heptafluoro-2-naphthyl prop-2-ynyl sulphides: differing courses of reactions of the naphthyl sulphides and ethers in glass and nickel apparatus. Considerations of mechanism, 2643–50

DIENONE-PHENOL REARRANGEMENTSynthesis of a 4-acylcyclohexa-2,5-dienone: 3,4-dihydro-3,3,8a-trimethylnaphthalene-1,6(2*H*,8*aH*)-dione, 631–40A ²H n.m.r. study of the steroidal dienone–phenol rearrangement, 2129–32**DIENOPHILE**

Azo dienophiles. Diels–Alder reactions of 4-phenyl-1,2,4-triazole-3,5-dione and 5-phenylpyrazol-3-one with functionalised dienes, 71–4

DIGITOXIGENINCardiotonic steroids. Part 10. Synthesis of digitoxigenin from 3 β -acetoxyandrost-5-en-17-one involving palladium-induced rearrangement of an allylic epoxide, 1601–6**DIHYDROFOLATE REDUCTASE**

Stereochemistry of reduction of the vitamin folic acid by dihydrofolate reductase, 1349–54

DIHYDROPTERIN KINASESpecific inhibitors in vitamin biosynthesis. Part 7. Syntheses of blocked 7,8-dihydropteridines *via* α -amino ketones, 1645–60**DIHYDROTHYMINE DEHYDROGENASE**Stereochemistry of catabolism of the RNA base uracil, 1355–62
Stereochemistry of catabolism of the DNA base thymine and of the anti-cancer drug 5-fluorouracil, 1363–72**DIHYDROXY ACID DEHYDRATASE**Structure–activity studies with the $\alpha\beta$ -dihydroxyacid dehydratase of *Salmonella typhimurium*, 691–6**DIMERISATION**

The dimerisation of some 4-hydroxyindenes, 2545–54

DINAPHTHOPOLYOXACYCLOALKANIN

Comparison of the steric barriers in three- and two-bladed propeller crowns, 1019–24

DINITROGEN TETRAOXIDE

Nitrosamines from tertiary amines and dinitrogen tetraoxide, 1661–4

DIOXA-AZABICYCLONONANEStereoselective addition of benzonitrile oxide and *N*-benzyl-*C*-phenylnitrene to (5*RS*,6*SR*)-5,6-dihydro-6-ethyl-5-methylpyran-2(2*H*)-one. Crystal structure of (1*RS*,4*RS*,5*RS*,6*RS*,9*SR*)-8-benzyl-1,5-dimethyl-4-ethyl-9-phenyl-3,7-dioxo-8-azabicyclo[4.3.0]nonan-2-one, 2763–8**DIOXABICYCLO-OCTANE**A facile synthesis of 5-methyl-6,8-dioxabicyclo[3.2.1]octan-3-ones from 4-(*t*-butyldimethylsilyloxy)pent-3-en-2-one and protected α -ketols. A synthesis of (\pm)-frontalin, 283–8

A general synthesis of 2,6-diaryl-3,7-dioxabicyclo[3.3.0]octane lignans applicable to unsymmetrically substituted compounds, 587–94

DIOXAZINECycloadducts of *C*-nitrosocarbonyl compounds and ergosteryl acetate; [3,3]sigmatropic rearrangements of *N*-aroyl-3,6-dihydro-1,2-oxazines, 887–92**DIOXIN***m*-Chloroperbenzoic acid oxidation of dioxins and dihydrodioxins, 457–60**DIOXOLANE**Synthesis of 4-hydroxy-2,5-dimethylfuran-3(2*H*)-one (furanol) from (2*R*,3*R*)-tartaric acid, 795–8**DIOXOLANYLIUM ION**A nuclear magnetic resonance study of the conversion of 4 β -acetoxy-3 β -hydroxy- Δ^4 -steroids into 3 β ,6 β -diacetoxy- Δ^4 -steroids, 331–4**DIPHENYLPHOSPHINIC ACID**

Application of diphenylphosphinic carboxylic mixed anhydrides to peptide synthesis, 461–70

DIQUINODIOXADIAZACYCLOTETRADECINECompounds with bridgehead nitrogen. Part 49. The synthesis and stereochemistry of perhydropyrido[3,2,1-*jk*][3,1]benzoxazepines and of *r*-3*a*,*t*-11*a*,*c*-14*a*,*t*-14*b*,*t*-22*a*,*t*-22*b*-perhydrodiquino[1,8*a*,8-*c*,*d*:1',8*a'*,8'-*jk*][1,8,3,10]dioxadiazacycLOTETRADECINE, 913–8**DISULPHIDE**Additions to alkenes *via* metal ion-promoted oxidation of dialkyl and diaryl disulphides, 1039–44Additions to alkenes *via* metal ion-promoted oxidation of 2,2'-dipyridyl disulphide and bis-(2-aminophenyl) disulphide, 1045–8

DITERPENE

Partial synthesis of a trachylobagiberellin analogue, 207–12
 A new atisane diterpene: *ent*-16 α -hydroxyatis-13-en-3-one from *Androstachys johnsonii* Prain, 703–10

Studies on rearrangements in derivatives of grandiflorenic acid. Part 1. Reaction of the epoxides of methyl (–)-kaur-9(11)-en-19-oate and (–)-kaur-9(11)-en-19-oic acid with boron trifluoride–diethyl ether either in the absence or in the presence of *N*-nitrosomethylurea. Formation of two diterpenes of a new skeletal type, 1693–8

The absolute stereochemical characterization of two new jatrophane diterpenes from *Euphorbia esula*, 2075–82

3 β ,19-Oxidopimarane-7,15-diene as intermediate in the conversion of virescenol B into isopimarane-7,15-dien-19-ol, 2173–6

The conformation of fujenal, a seco-ring B *ent*-kaurenoid diterpene, 2493–6

DITHIANE

Structure and absolute stereochemistry of thioacetal sulphoxides obtained by fungal metabolism of 2-alkyl-1,3-dithianes, 1547–52

DITHIAZOLE

Cycloaddition reactions of 1,4,2-dithiazole-5-thiones, 1205–8

DITHIOACETAL

Polarized ketene dithioacetals. Part 41. Studies on base-catalysed rearrangements of 1,1-bis(alkylthio)-2-arylpenta-1,4-dienes to novel 1,5-bis(alkylthio)-2-arylpenta-1,3-dienes *via* a 1,5-alkylthio shift, 641–6

Polarized ketene dithioacetals. Part 42. Studies on the reactions of alkyl and aryl Grignard reagents with α -oxoketene dithioacetals, 1289–94

DITHIOLE

New electron donors for organic metals: the synthesis of highly conjugated bis-(1,3-dithiole) derivatives, 1675–80

DITHIOLIUM

The preparation of 1-aryl- and 1-heteroaryl-alkene-1,2-dithiolates, 1907–10

DITHIOLONE

Heterocycles by cycloaddition. Part 7. Cycloaddition reactions of mesoionic dithioles with fulvenes, 1245–1247.

DOLABRIN

Light-induced synthesis of 3-alkyltropones, 2283–8

DRIMENIN

Improved total synthesis of (±)-drimenin, 815–8

DUFOR GLAND

Synthesis of (*Z,E*) and (*Z,Z*)- α -farnesenes and homofarnesenes, 399–404

DYNAMIC STEREOCHEMISTRY

Dynamic stereochemistry of imines and derivatives. Part 18. Photosynthesis and photoracemization of optically active oxaziridines, 849–56

EBURNAMENINE

Chiral synthesis of (+)-eburnamine, (–)-eburnamenine, and (–)-eburnamonine, 305–10

EBURNAMINE

Chiral synthesis of (+)-eburnamine, (–)-eburnamenine, and (–)-eburnamonine, 305–10

EBURNAMONINE

Chiral synthesis of (+)-eburnamine, (–)-eburnamenine, and (–)-eburnamonine, 305–10

ECDYSONE

Stereoselective synthesis of the 20-hydroxyecdysone side chain, 557–60

ELASTASE

Amino acids and peptides. Part 49. 2-Amino-4-(3-pyridyl)butyric acid and related peptides, 1767–72

ELECTROCHEMICAL OXIDATION

Electrochemical oxidation of aromatic ethers. Part 10. Regioselectivity in the aryl–aryl coupling reactions of some 4-benzylisochroman-3-ones and benzyl-1,2,3,4-tetrahydroisoquinolines, 1195–200

ELECTROCHEMISTRY

Synthesis and properties of acepleiadylene-5,6-dione and acepleiadylene-5,8-dione, 785–94

Spirodienones. Part 5. The synthesis and reactions of *N*-sulphonylcyclohexadienimines, 1829–36

ELECTRON DONOR

New electron donors for organic metals: the synthesis of highly conjugated bis-(1,3-dithiole) derivatives, 1675–80

ELECTRON TRANSFER

Reaction of 3-phenylglycidic esters. Part 2. Stereo- and regio-

selectivity in the oxirane ring opening of methyl *trans*-3-(4-methoxyphenyl)glycidate with various thiophenols and the effects of solvent and temperature, 421–8

ELECTROPHILIC SUBSTITUTION

The chemistry of pseudomonic acid. Part 8. Electrophilic substitutions at C-2 and C-15 of the pseudomonic acid nucleus by means of lithium dienolates, 549–56

ELLAGITANNIN

Tannins of Rosaceae medicinal plants. Part 2. Gemins A, B, and C, new dimeric ellagitannins from *Geum japonicum*, 315–22

ENAMIDE

Photocyclisation of enamides. Part 23. Reductive photocyclisation of enamides, 487–92

N-Alkylation of some secondary styryl enamides, 831–6

Photocyclisation of enamides. Part 24. Total synthesis of (±)-isofumigaclavine B and (±)-lysergic acid, 941–8

The reduction of tertiary *N*-styrylenamides, 1781–6

A further synthesis of the corticosteroid side chain starting with a suitable 17-ketone, 2191–2

ENAMINE

Activated nitriles in heterocyclic synthesis: reaction of cyanogen bromide with some functionally substituted enamines, 1499–502

The activating effects of arylazo groups on a double bond.

Preparation and properties of some bis(dialkylamino)arylazoethenes and related compounds, 1737–40

Ketone enamines as dipolarophiles towards *C*-azidohydrazones, 1903–6

Enamine chemistry. Part 29. Synthesis of adamantane derivatives from α,β -unsaturated acid chlorides and 4,4-disubstituted cyclohexanone enamines. Multiple [3,3] sigmatropic rearrangement transition state stereochemistry. *X*-Ray analysis, 2559–72

ENANTIOSELECTIVE REDUCTION

Asymmetric synthesis using chiral modified borohydrides. Part 4. Enantioselective reduction of ketones and oxime ethers with the reagent prepared from borane and polymer-supported (*S*)-(–)-2-amino-3-(*p*-hydroxyphenyl)-1,1-diphenylpropan-1-ol, 2615–20

ENANTIOSPECIFIC SYNTHESIS

The synthesis of (*R*)- and (*S*)-spirobi-1,4-dioxane and related spirobicycles from D-fructose, 1457–62

ENDOPEROXIDE

Secondary mould metabolites. Part 13. Fungal perylenequinones: phleichrome, isophleichrome, and their endoperoxides, 1387–92

ENDOTOXIN

Chemistry of bacterial endotoxins. Part 3. Reactions of oxazolines derived from 1,3,4,6-tetra-*O*-acetyl-2-[(3*R*)-3-hydroxytetradecanamido]- β -D-glucopyranose, 57–60

ENE REACTION

Reactions of transient *C*-nitrosocarbonyl compounds with dienes, mono-olefins, and nucleophiles, 883–6

Ethyl and methyl thioacetates, dienophilic thioaldehydes formed from sulphenyl chlorides by 1,2-elimination, 1541–6

Intramolecular 'ene' reactions of transient, allylic, and homoallylic *C*-nitrosoformate esters, 1961–6

C-Nitrosoformamides, a new class of transient dienophiles formed by oxidation of *N*-hydroxyureas, 2469–74

ENOL

Pentavalent organobismuth reagents. Part 3. Phenylation of enols and of enolate and other anions, 2667–76

ENONE

Convergent syntheses of 9-deoxy-12-phenylthioprostanoids and 9-deoxy- $\Delta^8(12)$ -PGD₁ derivatives, 145–52

A new method for the oxidation of alkenes to enones. An efficient synthesis of Δ^5 -7-oxo steroids, 267–74

A regioselective route to conjugated enones *via* α -phenylthio ketones, 1237–44

ENTERIDIOL

Synthesis of the [²H]-labelled urinary lignans enterolactone and enterodiol, 35–8

ENTEROLACTONE

Synthesis of the [²H]-labelled urinary lignans enterolactone and enterodiol, 35–8

ENZYME

Stereospecific synthesis of (2*R*,5*R*)-hept-6-yne-2,5-diamine: a potent and selective enzyme-activated irreversible inhibitor of ornithine decarboxylase (ODC), 2201–8

ENZYME-CATALYSED REDUCTION

A stereochemical test for ether-oxygen participation and oxonium ion formation in the acetolysis of 3-tetrahydropyranyl brosylate, 1323-6

ENZYME INHIBITOR

Specific inhibitors in vitamin biosynthesis. Part 7. Syntheses of blocked 7,8-dihydropteridines *via* α -amino ketones, 1645-60

Specific inhibitors in vitamin biosynthesis. Part 8. Syntheses of some functionalised 7,7-dialkyl-7,8-dihydropterins 2133-44

Specific inhibitors in vitamin biosynthesis. Part 9. Reactions of 7,7-dialkyl-7,8-dihydropteridines of use in the synthesis of potential inhibitors of tetrahydrofolate biosynthesis, 2145-50

ENZYMIC INHIBITOR

Substituted penicillanic acid 1,1-dioxides as β -lactam inhibitors: studies on 6-benzylidene- and hydroxybenzylpenam sulphones, 963-8

EPICATECHIN

Synthesis of condensed tannins. Part 13. The first 2,3-*trans*-3,4-*cis*-procyanidins: sequence of units in a 'trimer' of mixed stereochemistry, 669-76

EPOXIDATION

Synthesis of paniculides B and C, 1509-16

ERGOSTADIENOL

Conversion of nor-ketones into prochiral terminal methylene groups: synthesis of (24*E*)- and (24*Z*)-[28-²H]ergosta-5,24(28)-dien-3 β -ols, 595-600

ERGOSTANE

Unsaturated steroids. Part 13. Further observations upon the formation of aromatic ring c steroids: X-ray structure of 22,23-dibromo-10-methyl-19-noranthraergosta-5,7,9(10),14-tetraene and of 2 β ,3 α ,22,23-tetrabromo-18-nor-17-isoergosta-8(9),11,13(14)-triene, 1337-42

ERGOSTEROL

Cycloadducts of C-nitrosocarbonyl compounds and ergosteryl acetate; [3,3]sigmatropic rearrangements of *N*-aroyl-3,6-dihydro-1,2-oxazines, 887-92

ERGOT ALKALOID

Photocyclisation of enamides. Part 24. Total synthesis of (\pm)-isofumigaclavine B and (\pm)-lysergic acid, 941-8

ERYOTRINE

One-step synthesis of the erythrinane skeleton by acid-promoted double cyclization of *N*-(cyclohex-1-enyl)-*N*-[2-(3,4-dimethoxyphenyl)ethyl]- α -(methylsulphonyl)acetamide and its derivatives, 605-10

ERYTHRINANE

One-step synthesis of the erythrinane skeleton by acid-promoted double cyclization of *N*-(cyclohex-1-enyl)-*N*-[2-(3,4-dimethoxyphenyl)ethyl]- α -(methylsulphonyl)acetamide and its derivatives, 605-10

ERYTHROMYCIN

Chiral synthesis of polyketide-derived natural products. Part 3. Stereocontrolled synthesis of a chiral fragment corresponding to both the C-1-C-4 and C-9-C-12 units of erythromycin A from D-glucose, 1-6

Chiral synthesis of polyketide-derived natural products. Part 4. Synthesis of a left-hand segment with six consecutive chiral centres of dihydroerythronolide A for the total synthesis of erythromycin A from D-glucose, 7-18

Chiral synthesis of polyketide-derived natural products. Part 5. Synthesis of a chiral segment corresponding to the C-1-C-5 unit of erythromycin A from D-glucose, 19-26

Chiral synthesis of polyketide-derived natural products. Part 6. Chemical correlation of chiral synthons, derived from D-glucose for the synthesis of erythromycin A, with chemical cleavage products of the natural antibiotic, 27-34

An analysis of the ¹H and ¹³C n.m.r. spectra of erythromycin A using two-dimensional methods, 2599-604

ERYTHRONOLIDE

Chiral synthesis of polyketide-derived natural products. Part 3. Stereocontrolled synthesis of a chiral fragment corresponding to both the C-1-C-4 and C-9-C-12 units of erythromycin A from D-glucose, 1-6

Chiral synthesis of polyketide-derived natural products. Part 4. Synthesis of a left-hand segment with six consecutive chiral centres of dihydroerythronolide A for the total synthesis of erythromycin A from D-glucose, 7-18

Chiral synthesis of polyketide-derived natural products. Part 5. Synthesis of a chiral segment corresponding to the C-1-C-5 unit of erythromycin A from D-glucose, 19-26

Chiral synthesis of polyketide-derived natural products. Part 6.

Chemical correlation of chiral synthons, derived from D-glucose for the synthesis of erythromycin A, with chemical cleavage products of the natural antibiotic, 27-34

ETHANAL

The biosynthesis of spermidine. Part 2: Preparation and study by ¹H n.m.r. spectroscopy of hexahydropyrimidines from spermidine and propane-1,3-diamines, 2011-6

ETHANOBENZAZEPINE

Bridged-ring nitrogen compounds. Part 7. Synthesis of the 1,4-ethano-3-benzazepine ring system, 2677-88

ETHENOPENTACENE

Cyclobutarenes. Part 1. Synthesis of cyclobutanaphthalene and phenanthrene derivatives, 2689-94

ETHER

Free radical chemistry. Part 4. Stereoelectronic effects in the additions of cyclic ethers to fluorinated alkenes, 2215-8

ETHYNE

A versatile two-stage synthesis of 2-substituted benzo[*b*]furans from (2-methoxyphenyl)ethynes, 2443-6

EUGLENA GRACILIS

Biosynthesis of porphyrins and related macrocycles. Part 25. Synthesis of analogues of coproporphyrinogen-III and studies of their interaction with coproporphyrinogen-III oxidase from *Euglena gracilis*, 1699-710

EUONYMUS REVOLUTUS

New D:A-friedooleananes from *Euonymus revolutus* (Celastraceae), 685-90

EUPHORBIA ESULA

The absolute stereochemical characterization of two new jatrophane diterpenes from *Euphorbia esula*, 2075-82

EUSIDERIN

Asymmetric synthesis of 3-methyl-2-phenyl-1,4-benzodioxanes. Absolute configuration of the neolignans eusiderin and eusiderin C and D, 2555-8

FARNESENE

Synthesis of (*Z,E*) and (*Z,Z*)- α -farnesenes and homofarnesenes, 399-404

FATTY ACID

The biosynthesis of calendic acid, octadeca-(8*E*,10*E*,12*Z*)-trienoic acid, by developing marigold seeds: origins of (*E,E,Z*) and (*Z,E,Z*) conjugated triene acids in higher plants, 2425-34

FERROCENE

Ferrocene derivatives. Part 22. Friedel-Crafts arylations with chloroferrocenes. A new route to arylferrocenes, 1233-6

FJORD REGION DIARENE OXIDE

Synthesis of benzo[*g*]chrysene, benzo[*g*]chrysene 9, 10-oxide and benzo[*g*]chrysene 1,2:9,10-dioxide, 857-60

FLASH VACUUM PYROLYSIS

Thermolysis of phenyl-substituted 1,2-dihydronaphthalenes. Evidence for diphenylbutadienes as intermediates, 1819-28

FLAVAN

The molecular and crystal structure of (+)-2,3-*trans*-3,4-*trans*-leucocyanidin [(2*R*,3*S*,4*R*)-(+)-3,3',4,4',5,7-hexahydroxyflavan] dihydrate, and comparison of its heterocyclic ring conformation in solution and the solid state, 1413-8

FLAVANOID

Synthesis of condensed tannins. Part 14. Biflavonoid profisetinidins as synthons. The acid-induced 'phlobaphene' reaction, 2521-8

Synthesis of condensed tannins. Part 15. Structure of natural 'angular' profisetinidin tetraflavanoids: asymmetric induction during oligomeric synthesis, 2529-36

Synthesis of condensed tannins. Part 16. Stereochemical differentiation of the first 'angular' (2*S*,3*R*)-profisetinidin tetraflavanoids from *Rhus lancea* (karree) and the varying dynamic behaviour of their derivatives, 2537-44

FLAVIN

Coenzyme models. Part 39. Synthesis and properties of a flavin with a fused phenolate moiety which serves as a metal chelation site, 565-74

FLAVONE

Lithiation in flavones, chromones, coumarins, and benzofuran derivatives, 799-808

FLINDERSINE

Quinoline alkaloids. Part 24. Dimerization of *N*-methylflindersine, 197-8

FLUORENYLIDENEAMINE

The synthesis of NH aldimines and derivatives by spontaneous and base-catalysed decomposition of oxaziridines, 2123-8

FLUORESCENCE

Pyromellitimide-bridged porphyrins as model photosynthetic systems. 1. Synthesis and steady state fluorescence properties, 2435–8

FLUORIDE ION

Reactions involving fluoride ion. Part 31. Remarkable reactivity of perfluorobicyclobutylidene, 1191–4

FLUORINATED ETHER

Free radical chemistry. Part 3. Substituent effects in additions of ethers to fluorinated alkenes, 2209–14

FLUORINATED HETEROCYCLE

Partially fluorinated heterocyclic compounds. Part 20.

Isomerisations of pentafluorophenyl and 1,3,4,5,6,7,8-heptafluoro-2-naphthyl prop-2-ynyl ethers. Reactions of the naphthyl ether and 2-fluoromethyl-4,5,6,7,8,9-hexafluoronaphtho-[2,1-*b*]furan with 2,3-dimethylbut-2-ene and with 3,3-dimethylbut-1-ene, 2637–42

Partially fluorinated heterocyclic compounds. Part 21.

Isomerisations of pentafluorophenyl and 1,3,4,5,6,7,8-heptafluoro-2-naphthyl prop-2-ynyl sulphides: differing courses of reactions of the naphthyl sulphides and ethers in glass and nickel apparatus. Considerations of mechanism, 2643–50

FLUORINE SHIFT

Partially fluorinated heterocyclic compounds. Part 21.

Isomerisations of pentafluorophenyl and 1,3,4,5,6,7,8-heptafluoro-2-naphthyl prop-2-ynyl sulphides: differing courses of reactions of the naphthyl sulphides and ethers in glass and nickel apparatus. Considerations of mechanism, 2643–50

FLUOROALKENE

Reactions involving fluoride ion. Part 31. Remarkable reactivity of perfluorobicyclobutylidene, 1191–4

Free radical chemistry. Part 4. Stereoelectronic effects in the additions of cyclic ethers to fluorinated alkenes, 2215–8

FLUOROETHENE OLIGOMER

Reactions of tetrafluoroethene oligomers. Part 3.¹ Some reactions of tetrafluoroethene hexamer with nitrogenous bases, 2185–90

FLUOROETHER

Free radical chemistry. Part 4. Stereoelectronic effects in the additions of cyclic ethers to fluorinated alkenes, 2215–8

FLUORO IMINE

Reactions involving fluoride ion. Part 31. Co-oligomers of perfluoro-1-methyl-1,3-diazacyclopent-2- and -3-ene, 53–6

FLUOROMETHYL

The peculiar behaviour of the trifluoromethyl substituent in $S_{RN}1$ processes, 2515–20

FLUOROMETHYLPHOSPHONATES

The preparation and properties of some chiral fluoromethylphosphonates, phosphonothioates, and phosphonamidothioates, 233–8

FLUORO STEROID

4-Chloromercurioandrosta-4,6-diene-3,17-dione: preparation, X-ray structure determination, and potential utility, 1049–54

FOLATE BIOSYNTHESIS

Specific inhibitors in vitamin biosynthesis. Part 7. Syntheses of blocked 7,8-dihydropteridines *via* α -amino ketones, 1645–60

Specific inhibitors in vitamin biosynthesis. Part 8. Syntheses of some functionalised 7,7-dialkyl-7,8-dihydropterins 2133–44

Specific inhibitors in vitamin biosynthesis. Part 9. Reactions of 7,7-dialkyl-7,8-dihydropteridines of use in the synthesis of potential inhibitors of tetrahydrofolate biosynthesis, 2145–50

FOLIC ACID

Stereochemistry of reduction of the vitamin folic acid by dihydrofolate reductase, 1349–54

FORMYCIN

The syntheses of acycloformycins and 5-amino-3-(2-hydroxyethoxy)methylpyrazolo[4,3-*d*]pyrimidin-7(6*H*)-one, an analogue of the antiviral acycloguanosine, 2087–92

FORMYCIN ANALOGUE

C-Nucleoside studies. Part 18. The synthesis of C-nucleoside analogues of the antiviral agent (S)-9-(2,3-dihydroxypropyl)adenine, 1425–30

FORMYLATION

Acid-catalysed intramolecular C-alkylation in β,γ -unsaturated diazomethyl ketones. Part 4. Synthesis of functionalised hydrophenanthrene and benzocyclodecenone derivatives *via* novel fragmentation reactions, and X-ray structural analyses of two angularly substituted hydrophenanthrene derivatives, 505–14

FREE RADICAL

Cyclodextrin-promoted free-radical dediazonium of

benzenediazonium ions, 991–6

Benzenesulphenanilidyl radicals. Part 3. Reactions of 4'-substituted benzenesulphenanilides with t-butoxyl radicals, 1577–82

Free radical chemistry. Part 3. Substituent effects in additions of ethers to fluorinated alkenes, 2209–14

Free radical chemistry. Part 4. Stereoelectronic effects in the additions of cyclic ethers to fluorinated alkenes, 2215–8

FRIEDEL-CRAFTS

Ferrocene derivatives. Part 22. Friedel-Crafts arylations with chloroferrocenes. A new route to arylferrocenes, 1233–6

FRIEDOOLEANE

New D:A-friedooleananes from *Euonymus revolutus* (Celastraceae), 685–90

FRONTALIN

A facile synthesis of 5-methyl-6,8-dioxabicyclo[3.2.1]octan-3-ones from 4-(*t*-butyldimethylsiloxy)pent-3-en-2-one and protected α -ketols. A synthesis of (\pm)-frontalin, 283–8

FRUCTOPYRANOSIDE

The preparation and reactions of a new glycoside: 2'-chloroethyl β -D-fructopyranoside, 1447–56

FUCOSTEROL

Conversion of nor-ketones into prochiral terminal methylene groups: synthesis of (2*E*)- and (2*Z*)-[28-²H]ergosta-5,24(28)-dien-3 β -ols, 595–600

FUJENAL

The conformation of fujenal, a seco-ring B *ent*-kaurenoid diterpene, 2493–6

FULGIDE

Photochromic heterocyclic fulgides. Part 4. The thermal and photochemical reactions of (*E*)-isopropylidene-[α -(2- and -(3-thienyl)ethylidene)succinic anhydrides and related compounds, 957–62

FULVENE

Heterocycles by cycloaddition. Part 7. Cycloaddition reactions of mesoionic dithiolones with fulvenes, 1245–1247.

Synthesis of mesoionic analogues of heptafulvene *via* dicationic ether salts derived from mesoionic olates and trifluoromethanesulphonic anhydride, 2439–42

FULVIC ACID

Studies on the synthesis of heterocyclic compounds containing benzopyrone. Part 4. Synthesis of 4,10-dihydro-3-hydroxy-3-methyl-1*H*,3*H*-pyrano[4,3-*b*][1]benzopyran-10-one, the basic skeleton in fulvic acid, 183–6

FUNGAL METABOLISM

Structure and absolute stereochemistry of thioacetal sulphoxides obtained by fungal metabolism of 2-alkyl-1,3-dithianes, 1547–52

The synthesis of 1-methyl- and 1 α ,2 α -methylene-gibberellins, 2177–84

FUNGAL METABOLITE

Secondary mould metabolites. Part 13. Fungal perylenequinones: phleichrome, isophleichrome, and their endoperoxides, 1387–92

FUNGAL TOXIN

The solution structure of [Ala⁴]-desdimethylchlamydocin: a ¹H n.m.r. relaxation study, 245–50

FURAN

Photochemical transformation of tetrabromofuran by oxygen into 2,3,4,4-tetrabromobut-2-en-4-olide in the solid state, 45–52

Inter- and intra-molecular reactions of allene-1,3-dicarboxylic acid esters with 2-vinylfurans and 2-vinylthiophenes. A potential route to a bc ring precursor of the nagilactones, 747–56

Synthesis of 4-hydroxy-2,5-dimethylfuran-3(2*H*)-one (furanol) from (2*R*,3*R*)-tartaric acid, 795–8

Furan derivatives. Part 6. On effect of ring size in synthesis of 4,5-dihydro-3*H*-naphtho[1,8-*bc*]furans and their analogues, 1001–6

Photochemical synthesis of 3- and 5-aryl-2-furyl derivatives, 1285–8
Acid-induced broadening of ¹H n.m.r. signals in the 6-hydroxychroman and 5-hydroxydihydrobenzofuran series, 1301–10

β -Halogeno ether synthesis of olefinic alcohols: stereochemistry and conformation of 2-substituted 3-halogenotetrahydro-pyran and -furan precursors, 1971–82

β -Halogeno-ether synthesis of olefinic alcohols: stereochemistry of the ring-scission of 2-substituted 3-halogenotetrahydro-pyrans and -furans, 1983–96

The synthesis of hetero-bridged [5](3,6)oxepinophanes, 2119–22
Ethylidenetetrone acid and its derivatives. Condensations with carbonyl compounds, leading to reassignment of ramigenic acid from *Penicillium charlesii*, 2393–8

FURAN (contd)

- Directed metallations of 4-ethylidenetetrone acid *O*-methyl ether and its derivatives as a synthetic entry to natural 4-oxyfuran-2-ones, 2399–406
- Synthesis of isoaspartetrone, isogregatin and related *O*-methyltetrone acids. Reassignment of 5-methoxyfuran-3(2*H*)-one structures to the aspartetrone group of natural products, 2407–12
- Ring transformation of isoxazoles into furan and pyran derivatives, 2581–4

FURANEOL

- Synthesis of 4-hydroxy-2,5-dimethylfuran-3(2*H*)-one (furaneol) from (2*R*,3*R*)-tartaric acid, 795–8

FURANOSULOSE

- The photochemistry of ketones derived from carbohydrates. Part 10. A study of stereochemical influences on photo-induced rearrangements and ring expansions of 3-oxacyclopentanones using 1,2-*O*-isopropylidene furanos-3-ulose derivatives, 575–82

FURST-PLATTNER RING-OPENING

- The preparation and reactions of a new glycoside: 2'-chloroethyl β-D-fructopyranoside, 1447–56

FUSARIUM EQUISETI

- Phytotoxic compounds produced by *Fusarium equiseti*. Part 7. Reactions and rearrangement of the 7-hydroxy-12,13-epoxytrichothec-9-en-8-one skeleton, 1731–6

FUSARIUM SULPHUREUM

- Structure elucidation of a novel trichothecene glycoside using ¹H and ¹³C nuclear magnetic resonance spectroscopy, 1553–6
- Anthracyclinones. Part 4. The use of DBN or DBU in a novel extension of the Marschalk reaction leading to hydroxyglycylanthraquinones, 1557–64

GEMIN

- Tannins of Rosaceous medicinal plants. Part 2. Gemin A, B, and C, new dimeric ellagitannins from *Geum japonicum*, 315–22

GEOCHEMICAL MARKER

- Synthesis of the key intermediate (±)-18,19-dinor-14αH-cheilanth-12,15-dien-17-one and its transformation into the geochemical marker 18,19-dinor-13βH,14αH-cheilanthane and the marine-type sesterterpene methyl scalar-17-en-25-oate, 1227–32

GERMANIUM

- Regiospecific incorporation of no-carrier-added radiobromine and radioiodine into aromatic rings *via* halogenodegermylation, 1687–92
- Regiospecific no-carrier-added radiobromination and radioiodination of aryltrimethyl group IVb organometallics, 1941–8

GEUM JAPONICUM

- Tannins of Rosaceous medicinal plants. Part 2. Gemin A, B, and C, new dimeric ellagitannins from *Geum japonicum*, 315–22

GIBBERELLIN

- Partial synthesis of a trachylobagibberellin analogue, 207–12
- Partial syntheses of gibberellins A₄₅ and A₆₃, 651–4
- 2β-Alkyl derivatives of gibberellin A₁, 837–42
- Conjugate addition of lithium methylcuprates to a gibberellin(10)en-2-one; preparation of 10-*epi*-gibberellin A₅₃, 1147–50
- S_N2 and S_N2' alkylation of some gibberellin allylic lactones by lithium methylcuprates, 1151–6
- The synthesis of 1-methyl- and 1α,2α-methylene-gibberellins, 2177–84
- Partial synthesis of the 15β-hydroxygibberellins A₆₇ and A₆₈ and of 15β-hydroxygibberellins A₁ and A₃, 2741–6

GLIOTOXIN

- The biosynthetic incorporation of [*phenyl*-³H]phenylalanine into gliotoxin, 1487–90

GLUCOSAMINE

- Chemistry of bacterial endotoxins. Part 3. Reactions of oxazolines derived from 1,3,4,6-tetra-*O*-acetyl-2-[(3*R*)-3-hydroxytetradecanamido]-β-D-glucopyranose, 57–60

GLUCOSE

- Unsaturated carbohydrates. Part 27. Synthesis of (–)-*exo*-brevicommin from a nona-3,8-dienulose derivative, 301–4

GLUCOSIDE

- Glycosides of *N*-hydroxy-*N*-arylamine derivatives. Part 1. Synthesis and mutagenicity of *O*-glucosides of *N*-hydroxy-*N*-arylamines and their acetohydroxamic acids, 1261–70
- Structure elucidation of a novel trichothecene glycoside using ¹H and ¹³C nuclear magnetic resonance spectroscopy, 1553–6
- Anthracyclinones. Part 4. The use of DBN or DBU in a novel extension of the Marschalk reaction leading to

hydroxyglycylanthraquinones, 1557–64

GLUCOSYLATION

- Strategies for the synthesis of branched oligosaccharides of the *Shigella flexneri* 5a, 5b, and variant X serogroups employing a multifunctional rhamnose precursor, 2251–60

GLUCURONIDE

- Glycosides of *N*-hydroxy-*N*-arylamine derivatives. Part 2.¹ Convenient synthetic methods for *N*-glycosides of *N*-hydroxy-*N*-arylamines, 1271–6

GLUTAMIC ACID

- Convenient synthesis of stereospecifically deuteriated glycines from glutamic acid using a combination of enzymatic and chemical methods, 2389–92

GLUTATHIONE

- The formation and metabolism of *N*-hydroxymethyl compounds. Part 6. The synthesis of *S*-amidomethyl-, *S*-ureidomethyl-, and *S*-(1,3,5-triazin-2-ylaminomethyl)-glutathione derivatives, 75–80

GLYCINE

- Convenient synthesis of stereospecifically deuteriated glycines from glutamic acid using a combination of enzymatic and chemical methods, 2389–92

GLYCOLIPID

- Chemistry of bacterial endotoxins. Part 3. Reactions of oxazolines derived from 1,3,4,6-tetra-*O*-acetyl-2-[(3*R*)-3-hydroxytetradecanamido]-β-D-glucopyranose, 57–60

GLYCOPROTEIN

- Synthesis of three oligosaccharides that form part of the complex type of carbohydrate moiety of glycoproteins containing intersecting *N*-acetylglucosamine, 535–40
- Nitrosation of 2-amino-2-deoxy-D-galactitol; a model experiment for the study of reduced oligosaccharides derived from mucus glycoproteins, 2775–8

GLYCOSIDE

- Glycosides of *N*-hydroxy-*N*-arylamine derivatives. Part 1. Synthesis and mutagenicity of *O*-glucosides of *N*-hydroxy-*N*-arylamines and their acetohydroxamic acids, 1261–70
- Glycosides of *N*-hydroxy-*N*-arylamine derivatives. Part 2.¹ Convenient synthetic methods for *N*-glycosides of *N*-hydroxy-*N*-arylamines, 1271–6
- The preparation and reactions of a new glycoside: 2'-chloroethyl β-D-fructopyranoside, 1447–56
- The characterisation of mollic acid 3β-D-xyloside and its genuine aglycone mollic acid, two novel 1α-hydroxycycloartenoids from *Combretum molle*, 1711–6

GLYCOSYLIC BOND HYDROLYSIS

- Synthesis and hydrolytic stability of 4-substituted pyrazolo[3,4-*d*]pyrimidine 2'-deoxyribofuranosides, 2573–6

GLYOXAL

- Reactions of glyoxals with hydrazones: a new route to 4-hydroxypyrazoles, 81–6

GRANDIFLORENIC ACID

- Studies on rearrangements in derivatives of grandiflorenic acid. Part 1. Reaction of the epoxides of methyl (–)-kaur-9(11)-en-19-oate and (–)-kaur-9(11)-en-19-oic acid with boron trifluoride-diethyl ether either in the absence or in the presence of *N*-nitrosomethylurea. Formation of two diterpenes of a new skeletal type, 1693–8

GREGATIN

- Synthesis of isoaspartetrone, isogregatin and related *O*-methyltetrone acids. Reassignment of 5-methoxyfuran-3(2*H*)-one structures to the aspartetrone group of natural products, 2407–12

GRIGNARD

- Convergent syntheses of 9-deoxy-12-phenylthioprostanoids and 9-deoxy-Δ⁸⁽¹²⁾-PGD₁ derivatives, 145–52

GRIGNARD REAGENT

- A general approach to the synthesis of mono-olefinic insect sex pheromones of *Z*- or *E*-configuration, 1115–20
- Polarized ketene dithioacetals. Part 42. Studies on the reactions of alkyl and aryl Grignard reagents with α-oxoketene dithioacetals, 1289–94
- Reactions of 4-substituted-2'-halogenoacetophenones with Grignard reagents, 1373–80

GUANOSINE

- A convenient method for the synthesis of *P*¹-(7-methylguanosine-5') *P*²-(ribonucleoside-5')diphosphates, 997–1000

HAEM

- Isolation, crystallisation, and synthesis of the dimethyl ester of porphyrin *a*, the iron-free prosthetic group of cytochrome *c*

- HAEM** (contd)
oxidase, 135–44
Biosynthesis of porphyrins and related macrocycles. Part 25.
Synthesis of analogues of coproporphyrinogen-III and studies of
their interaction with coproporphyrinogen-III oxidase from
Euglena gracilis, 1699–710
- HAEMULCHOLIC ACID**
Reduction of α -diazo- β -hydroxy esters to β -hydroxy esters:
application in one of two convergent syntheses of a (22S)-22-
hydroxy bile acid from fish bile and its (22R)-epimer, 493–8
- HALOGENODEGERMYLATION**
Regiospecific incorporation of no-carrier-added radiobromine and
radioiodine into aromatic rings *via* halogenodegermylation, 1687–
92
- HALOGENO ETHER**
 β -Halogeno ether synthesis of olefinic alcohols: stereochemistry and
conformation of 2-substituted 3-halogenotetrahydro-pyran and
-furan precursors, 1971–82
 β -Halogeno-ether synthesis of olefinic alcohols: stereochemistry of
the ring-scission of 2-substituted 3-halogenotetrahydro-pyrans
and -furans, 1983–96
- HALOGENOMETHYLSULPHENYLATION**
Trihalogenomethylsulphenylation of tetraisopropyl
methylenebisphosphonates, 1935–40
- HECTOR'S BASE**
1,2,4-Thiadiazolylureas. A postscript to the oxidative cyclisation of
thionoamidines, 311–4
- HELIX**
Synthesis of sequential polypeptides containing L-isoleucine for
assignment of the far-i.r. band characteristic of isoleucyl in a
peptide α -helix, 765–8
- HEPTAFULVENE**
Synthesis of mesoionic analogues of heptafulvene *via* dicationic
ether salts derived from mesoionic olates and
trifluoromethanesulphonic anhydride, 2439–42
- HEPTATOXIN**
Structural studies on cyanoginosins-LR, -YR, -YA, and -YM,
peptide toxins from *Microcystis aeruginosa*, 2747–8
- HEPTYNEDIAMINE**
Stereospecific synthesis of (2R,5R)-hept-6-yne-2,5-diamine: a potent
and selective enzyme-activated irreversible inhibitor of ornithine
decarboxylase (ODC), 2201–8
- HERMIDIN**
Isolation, structure, and synthesis of hermidin, a chromogen from
Mercurialis perennis L., 1757–66
- HETEROYOHIMBINE ALKALOID**
Heteroyohimbine alkaloids. Stereospecific conversion of ajmalicine
into 19-epiajmalicine, 923–6
- HEXAMETHYLMELAMINE**
Triazines and related products. Part 30. Cationic analogues of the
antitumour drug 2,4,6-tris(dimethylamino)-1,3,5-
triazine(hexamethylmelamine), 1533–40
- HIGH PRESSURE SYNTHESIS**
High-pressure synthesis, structures, and conformational properties
of some derivatives of 7-azabicyclo[2.2.1]heptane. X-Ray
determination of *endo*-10-benzoyl-4-phenyl-4,10-
diazatricyclo[5.2.1.0^{2,6}]dec-8-ene-3,5-dione and *exo*-10-acetyl-4-
phenyl-4,10-diazatricyclo[5.2.1.0^{2,6}]decane-3,5-dione, 1277–84
- HIRSUTENE**
Total synthesis of cyclopentanoid natural products, 2625–36
- HOMOFARNASENE**
Synthesis of (*Z,E*) and (*Z,Z*)- α -farnesenes and homofarnesenes, 399–
404
- HOMOSPERMIDINE**
Pyrrolizidine alkaloid biosynthesis. Synthesis of ¹⁴C-labelled
homospermidines and their incorporation into retronecine, 819–
24
- HOPEA JUCUNDA**
Balanocarpol, a new polyphenol from *Balanocarpus zeylanicus*
(Trimen) and *Hopea jucunda* (Thw.) (Dipterocarpaceae), 1807–10
The differentiation of π - and τ -derivatised histidines, 1811–6
- HORNER REACTION**
Use of dibenzophosphole oxides in the Horner reaction:
stereospecific formation of (*Z*)-stilbene from an *erythro*- β -
hydroxyalkylphosphine oxide, 1953–6
- HORNER-WITTIG**
The stereocontrolled Horner–Wittig reaction: synthesis of
disubstituted alkenes, 2307–26
Synthesis of single isomers (*E* or *Z*) of protected γ,δ -unsaturated
ketones by the Horner–Wittig reaction, 2585–98
- HYDRAZINOLYSIS**
Hydrazinolysis of 2-phenyl-2-(phthalimidoalkyl)indan-1,3-diones,
191–6
- HYDRAZONE**
Reactions of glyoxals with hydrazones: a new route to 4-
hydroxypyrazoles, 81–6
Chiral α -sulphinyl hydrazones as effective reagents for
stereoselective aldol-type condensation, 251–4
Double stereoselection in the aldol-type synthesis of γ -methyl and
 γ -alkoxy β -hydroxy ketones mediated by α -sulphinyl hydrazones,
255–60
- HYDRIDE SHIFT**
Reactions of 4-substituted-2'-halogenoacetophenones with Grignard
reagents, 1373–80
- HYDROGEN BONDING**
The derivation of carbon–proton internuclear distances in organic
natural products from ¹³C relaxation rates and nuclear
Overhauser effects, 239–44
Furan derivatives. Part 6. On effect of ring size in synthesis of 4,5-
dihydro-3*H*-naphtho[1,8-*bc*]furans and their analogues, 1001–6
- HYDROXAMIC ACID**
Reactions of transient C-nitrosocarbonyl compounds with dienes,
mono-olefins, and nucleophiles, 883–6
Glycosides of *N*-hydroxy-*N*-arylamine derivatives. Part 1. Synthesis
and mutagenicity of *O*-glucosides of *N*-hydroxy-*N*-arylamines
and their acetoxyhydroxamic acids, 1261–70
- HYDROXY ACID**
Diastereoselective reduction of chiral α -ketoamides derived from
(*S*)-proline esters with sodium borohydride. Preparation of
optically active α -hydroxy acids, 769–72
- HYDROXY KETONE**
Enantiomerically pure sulphinyl-4,5-dihydroisoxazoles. Part 2.
Synthesis of masked and unmasked β,β' -dihydroxy ketones *via*
stereocontrolled double aldol condensation, 2293–8
- HYDROXYLAMINE**
Addition of phenylnitrenium ion to olefins. Reactions of phenyl
azide with some olefins in the presence of trifluoroacetic acid,
677–84
The nitrile oxide–isocyanate rearrangement, 1181–4
N-[Aryl(phenyl)phosphinoyl]hydroxylamines: influence of
substituents on the competitive migration of aryl and phenyl
groups in the Lossen-like rearrangement of their *O*-
methanesulphonyl derivatives, 1787–92
N-Phosphonoyl and *N*-phosphoroyl hydroxylamines: reactions of
their *O*-sulphonyl derivatives with *t*-butylamine, 2651–6
- HYDROXYLATION**
Structure–activity studies with the $\alpha\beta$ -dihydroxyacid dehydratase of
Salmonella typhimurium, 691–6
Microbiological transformations, Part 6. Microbiological
transformations of acyl derivatives of indoline, 1,2,3,4-
tetrahydroquinoline, 1,2,3,4-tetrahydroisoquinoline and 2,3,4,5-
tetrahydro-1*H*-1-benzazepine with the fungus *Cunninghamella*
elegans, 1381–6
- HYPERTENSIVE ACTIVITY**
Synthesis, resolution, and assignment of configuration of potent
hypotensive retro-inverso bradykinin potentiating peptide
5a(BPP_{5a}) analogues, 697–702
- HYPOIODATE**
Photo-induced transformations. Part 79. On the mechanism of the
formation of oxa steroids *via* photo- and thermally-induced
rearrangement of 3-hydroxy- Δ^5 -steroid hypiodites in the
presence of mercury(II) oxide and iodine. An oxygen-18 labelling
study, 1431–6
- IMIDATE**
Synthesis of isomeric 5-(phenylsulphonyl)pyrimidines, 87–92
- IMIDAZOLE**
Purines, pyrimidines, and imidazoles. Part 61. Reaction of 6-
alkylamino-4-chloro-5-nitropyrimidines with diethyl malonate,
ethyl cyanoacetate, and ethyl acetoacetate and some derived
pyrrolo[3,2-*d*]pyrimidines related to the cytokinins, 187–90
Two-step synthesis of imidazoles from activated alkynes, 741–6
- IMIDAZOTRIAZINE**
Synthesis of imidazo-fused bridgehead-nitrogen 2'-deoxyribo-*C*-
nucleosides: coupling–elimination reactions of 2,5-anhydro-3,4,6-
tri-*O*-benzoyl-D-allonic acid, 621–30
- IMIDE**
Photo-oxygenation of *N*-unsubstituted pyrazin-2-ones and
alkoxy-pyrazines, 2497–500

IMINE

Reactions involving fluoride ion. Part 31. Co-oligomers of perfluoro-1-methyl-1,3-diazacyclopent-2- and -3-ene, 53–6
 Reduction of imines using NADH models, 437–40
 Dynamic stereochemistry of imines and derivatives. Part 18.
 Photosynthesis and photoracemization of optically active oxaziridines, 849–56

IMINE-ENAMINE TAUTOMERISM

Nitrogen bridgehead compounds, Part 49. Synthesis and stereochemistry of 9-aminotetrahydro-4*H*-pyrido[1,2-*a*]pyrimidin-4-ones., 1015–8

INDAN

Hydrazinolysis of 2-phenyl-2-(phthalimidoalkyl)indan-1,3-diones, 191–6
 The synthesis and chemistry of 4-aza-azulene, 1793–802

INDAZOLOBENZODIAZEPINE

Synthesis of (±)-(4*a*S,13*c*R)- and (±)-(4*a*R,13*c*R)-1,2,3,4,4*a*,13*c*-hexahydro-5*H*-indazolo[2,3-*d'*][1,4]benzodiazepin-6(7*H*)-ones, 2001–6

INDENE

Formation and *X*-ray crystal structure of ethyl 2-amino-1-oxo-inden-3-carboxylate, 405–8
 3*aH*-Indenes. Part 3. Base induced dimerisation of 3,7*a*-dihydro-4,7*a*-dimethyl-5*H*-inden-5-one. *X*-Ray structure determination of the hexacyclic dimer system, 711–8
 3*aH*-Indenes. Part 4. Formation and reactions of some dienone intermediates, 719–22
 3*aH*-Indenes. Part 5. Preparation and reactions of 3-methoxy- and 3-trimethylsiloxy-3*a*-substituted-3*aH*-indenes, 723–30
 The dimerisation of some 4-hydroxyindenes, 2545–54

INDENONE

Polarized ketene dithioacetals. Part 42. Studies on the reactions of alkyl and aryl Grignard reagents with α -oxoketene dithioacetals, 1289–94

INDENOQUINOLINE

Preparation and rearrangement of 6*a*-methyl-6*aH*-benzo[*a*]carbazole and 11*b*-methyl-11*bH*-benzo[*c*]carbazole, 2733–40

INDOLE

Cyclising nucleophilic addition to azinium systems. Part 1. Reaction of 3-indol-2-ylpyridine, 3-indol-2-ylquinoline, 4-indol-2-ylisoquinoline and pyrido[3,4-*a*]carbazoles with acetic anhydride, 1503–8

The *X*-ray molecular structures of methyl 4,5,7,8,9,10,11,12,13,14-decahydro-7,9-dioxo-8,15-methenopyrrolo[3,2,1-*op*][1]benzazacyclododecine-16-carboxylate, methyl (*Z*)-1',2',4',5'-tetrahydro-2,4'-dioxospiro(cycloheptane-1,6'-[6*H*]pyrrolo[3,2,1-*ij*]quinolin)-5'-ylideneacetate, and methyl (*Z*)-1,1*a*,2,3,4,8,9*a*-octahydro-1-methoxycarbonylmethyl-11-methoxycarbonylmethylene-12-oxo-1*b*,4*a*-epoxyethanoindolizino[2,3,4,5,6-*ijklm*]carbazole-1-carboxylate, 1921–6

INDOLE ALKALOID

Heteroyohimbine alkaloids. Stereospecific conversion of ajmalicine into 19-epiajmalicine, 923–6

INDOLEQUINODIMETHANE

Diels–Alder reactivity of pyrano[3,4-*b*]indol-3-ones, stable analogues of indole-2,3-quinodimethanes, 2505–8

INDOLINE

Microbiological transformations, Part 6. Microbiological transformations of acyl derivatives of indoline, 1,2,3,4-tetrahydroquinoline, 1,2,3,4-tetrahydroisoquinoline and 2,3,4,5-tetrahydro-1*H*-1-benzazepine with the fungus *Cunninghamella elegans*, 1381–6

INDOLIZINE

A formal total synthesis of ipalbidine, 261–6
 Synthesis of peri-fused indolizines and azaindolizines by intramolecular 1,3-dipolar cycloaddition of 3-(phenylpropynoyloxyalkyl)pyridine *N*-ylides, 379–82

INOSE

Unsaturated carbohydrates. Part 28. Observations on the conversion of 6-deoxyhex-5-enopyranosyl compounds into 2-deoxyinosose derivatives, 2413–6

INSECT FEEDING DETERRENT

Metabolic products of *Phomopsis oblonga*. Part 1. 3*a*,5*a*,6,7,8,9*a*,9*b*-octahydro-7,9*b*-dimethylnaphtho[1,2-*c*]furan-1(3*H*)-one (Oblongolide), 861–4
 Metabolic products of *Phomopsis oblonga*. Part 2. Phomopsolide A and B, tiglic esters of two 6-substituted 5,6-dihydro-5-

hydroxypyran-2-ones, 865–70

INVERSION

The biosynthesis of spermidine. Part 1: biosynthesis of spermidine from L-[3,4-¹³C₂]methionine and L-[2,3,3-²H₃]methionine, 2007–10
 Biosynthesis of spermidine. Part 3: The stereochemistry of the formation of the N-CH₂ group in the biosynthesis of spermidine, 2017–24

IODINE

Oxo-bridged compounds of iodine(III): syntheses, structure, and properties of μ -oxo-bis[trifluoroacetato(phenyl)iodine], 757–64
 Regiospecific incorporation of no-carrier-added radiobromine and radioiodine into aromatic rings *via* halogenodegermylation, 1687–92
 Regiospecific no-carrier-added radiobromination and radioiodination of aryltrimethyl group IVb organometallics, 1941–8

IODOCYCLIZATION

A new approach to (±)-2-amino-2-deoxytetritol derivatives, 935–40

IODOSYLBENZENE

Oxo-bridged compounds of iodine(III): syntheses, structure, and properties of μ -oxo-bis[trifluoroacetato(phenyl)iodine], 757–64

IONOPHORE

Binding and transport of alkali metal ions by synthetic analogues of nactins, 1717–24

IPALBIDINE

A formal total synthesis of ipalbidine, 261–6

I.R.

Synthesis of sequential polypeptides containing L-isoleucine for assignment of the far-i.r. band characteristic of isoleucyl in a peptide α -helix, 765–8

IRON

Both-faces hindered porphyrins. Part 2. Synthesis and characterization of internally five-co-ordinated iron(II) basket-handle porphyrins derived from 5,10,15,20-tetrakis(*o*-hydroxyphenyl)porphyrin, 61–70
 Isolation, crystallisation, and synthesis of the dimethyl ester of porphyrin *a*, the iron-free prosthetic group of cytochrome *c* oxidase, 135–44

Both-faces hindered porphyrins. Part 3. Synthesis and characterization of internally five-co-ordinated iron(II) basket handle porphyrins derived from 5,10,15,20-tetrakis(*o*-aminophenyl)porphyrin, 221–32

3*aH*-Indenes. Part 4. Formation and reactions of some dienone intermediates, 719–22
 Metal-carbonyl-induced reaction of isoxazoles. Ring cleavage and reduction by hexacarbonylmolybdenum, pentacarbonyliron, or nonacarbonyliron, 1401–6

Use of π -allyltricarbonyliron lactam complexes in the preparation of nocardicin derivatives: synthesis of (–)-3-oxo-1-[(*p*-benzyloxyphenyl)benzyloxycarbonylmethyl]azetid-2-one, 2375–82

IRON CLUSTER

The selective oxidation of protected cholestanol derivatives using the Gif system, 583–6

Functionalisation of saturated hydrocarbons. Part 3. The oxidation of 3 β ,5 α ,6 β -triacetoxysterane using the Gif system, 2109–18

ISATOGEN

11*H*-Isoindolo[2,1-*a*]indol-11-ones: novel rearrangement products from the attempted preparation of 2-(2-diethylaminomethylphenyl)isatogens, 1583–8

ISOATISIRENE

A novel synthetic approach to isoatisirene-related compounds *via* an intramolecular Diels–Alder reaction, 927–34

ISOCHROMANONE

Electrochemical oxidation of aromatic ethers. Part 10. Regioselectivity in the aryl–aryl coupling reactions of some 4-benzylisochroman-3-ones and benzyl-1,2,3,4-tetrahydroisoquinolines, 1195–200

ISOCYANATE

The nitrile oxide–isocyanate rearrangement, 1181–4

ISOCYANIDE

Ovine III-thrift in Nova Scotia. Part 10. Palladium and rhodium complexes as reagents in the investigation of isocyanide metabolites of *Trichoderma hamatum*, 441–6

ISOFUCOSTEROL

Conversion of nor-ketones into prochiral terminal methylene groups: synthesis of (24*E*)- and (24*Z*)-[28-²H]jergosta-5,24(28)-

- ISOFUCOSTEROL** (contd)
dien-3 β -ols, 595–600
- ISOFUMIGA CLAVINE**
Photocyclisation of enamides. Part 24. Total synthesis of (\pm)-isofumigaclavine B and (\pm)-lysergic acid, 941–8
- ISOGUANINE**
Synthesis of ara-doridosine, a new arabinosyl nucleoside resistant to adenosine deaminase. X-Ray structure determination of 6-*N*,9(*N*)-diacetyl-1(*N*)-methylisoguanine, 1315–22
- ISOINDOLOINDOLE**
11*H*-Isoindolo[2,1-*a*]indol-11-ones: novel rearrangement products from the attempted preparation of 2-(2-diethylaminomethylphenyl)isatogens, 1583–8
- ISOLEUCINE**
Synthesis of sequential polypeptides containing L-isoleucine for assignment of the far-i.r. band characteristic of isoleucyl in a peptide α -helix, 765–8
- ISOPENICILLIN**
Intact incorporation of δ -(α -L-aminoadipoyl)-L-[3-¹³C]cysteinyI-D-[¹⁵N]valine into isopenicillin N. Observation of one-bond ¹³C-¹⁵N coupling, 369–72
- ISOPIMARADIENE**
3 β ,19-Oxidopimaradiene as intermediate in the conversion of virescensol B into isopimaradiene-7,15-dien-19-ol, 2173–6
- ISOPORPHYRIN**
Isolation, crystallisation, and synthesis of the dimethyl ester of porphyrin *a*, the iron-free prosthetic group of cytochrome *c* oxidase, 135–44
- ISOQUINOLINE**
Dehalogenation of 1-halogenothienyl-di- and -tetrahydroisoquinolines by sodium methoxide in dimethyl sulphoxide, 275–82
Formation and X-ray crystal structure of ethyl 2-amino-1-oxoindene-3-carboxylate, 405–8
Microbiological transformations, Part 6. Microbiological transformations of acyl derivatives of indoline, 1,2,3,4-tetrahydroquinoline, 1,2,3,4-tetrahydroisoquinoline and 2,3,4,5-tetrahydro-1*H*-1-benzazepine with the fungus *Cunninghamella elegans*, 1381–6
Cyclising nucleophilic addition to azinium systems. Part 1. Reaction of 3-indol-2-ylpyridine, 3-indol-2-ylquinoline, 4-indol-2-ylisoquinoline and pyrido[3,4-*a*]carbazoles with acetic anhydride, 1503–8
Triazolopyridines. Part 5. The reactions of 1,2,3-triazolo[5,1-*a*]isoquinoline: a new route to 1,3-disubstituted isoquinolines, 1897–902
A novel ring closure leading to 3,9-dihydroxyaporphines (3,9-dihydroxy-4*H*-dibenzol[*de,g*]quinolines). Part 2., 2455–62
- ISOQUINOLINE ALKALOID**
Syntheses of (\pm)-tetrahydropalmatine and spirobenzylisoquinolines by thermolysis of benzocyclobutene derivatives, 2151–4
Total synthesis of (\pm)- and (+)-latifine, 2447–54
- ISOQUINOLONE**
Electrochemical oxidation of aromatic ethers. Part 10. Regioselectivity in the aryl-aryl coupling reactions of some 4-benzylisochroman-3-ones and benzyl-1,2,3,4-tetrahydroisoquinolines, 1195–200
- ISOTHIAZOLIDINONE**
Syntheses of β -lactams by ring contraction of isothiazolidinones, 153–8
- ISOTHIOCYANATE**
5,6,7,8-Tetrahydroquinolines. Part 6. Silylation *vs.* thioamidation in the reaction of silyl isothiocyanates with organometallics: influence of the solvent and of the substituents on silicon, 1917–20
- ISOXAZOLE**
Metal-carbonyl-induced reaction of isoxazoles. Ring cleavage and reduction by hexacarbonylmolybdenum, pentacarbonyliron, or nonacarbonyliron, 1401–6
A new spiro annelation reaction in the isoxazole series: applications and limits, 1871–4
Enantiomerically pure sulphanyl-4,5-dihydroisoxazoles. Part 1. Stereocontrolled synthesis of optically active β -ketols and γ -amino alcohols, 2289–92
Enantiomerically pure sulphanyl-4,5-dihydroisoxazoles. Part 2. Synthesis of masked and unmasked β,β' -dihydroxy ketones *via* stereocontrolled double aldol condensation, 2293–8
Ring transformation of isoxazoles into furan and pyran derivatives, 2581–4
- 1,3-Dipolar cycloadditions with alkynyl phenyl sulphones, 2621–4
- ISOXAZOLIDINE**
The stereoselectivity of addition of *N*-benzyl-*C*-alkylnitrones to methyl crotonate. X-Ray crystal structure of (3*RS*,4*SR*,5*RS*)-2-benzyl-4-methoxycarbonyl-5-methyl-3-[(4*RS*)-2,2,5,5-tetramethyl-1,3-dioxolan-4-yl]isoxazolidine, 2753–62
- JATROPHANE DITERPENE**
The absolute stereochemical characterization of two new jatrophane diterpenes from *Euphorbia esula*, 2075–82
- KAURENOIC ACID**
Studies on rearrangements in derivatives of grandiflorenic acid. Part 1. Reaction of the epoxides of methyl (–)-kaur-9(11)-en-19-oate and (–)-kaur-9(11)-en-19-oic acid with boron trifluoride-diethyl ether either in the absence or in the presence of *N*-nitrosomethylurea. Formation of two diterpenes of a new skeletal type, 1693–8
- KAURENOID DITERPENE**
The conformation of fujenal, a seco-ring *B* *ent*-kaurenoid diterpene, 2493–6
- KETENE**
Reaction of ketenes. Part 18. Catalysed reactions between α -diazocarbonyl compounds and ketene acetals, 289–94
Polarized ketene dithioacetals. Part 41. Studies on base-catalysed rearrangements of 1,1-bis(alkylthio)-2-arylpenta-1,4-dienes to novel 1,5-bis(alkylthio)-2-arylpenta-1,3-dienes *via* a 1,5-alkylthio shift, 641–6
Polarized ketene dithioacetals. Part 42. Studies on the reactions of alkyl and aryl Grignard reagents with α -oxoketene dithioacetals, 1289–94
Ketene. Part 23. Conformational control of the addition reactions of ketenes with *N*-phenylnitrones, 1837–44
Photochemical cycloaddition of thiocarbonyl compounds to diphenylketene and a related ketenimine, 1957–60
Ketene. Part 24. The reactions of *N*-(fluoren-9-ylidene)methylamine *N*-oxide with dimethylketene and ketene, 2501–4
- KETENE ACETAL**
Chemistry of ketene acetals. Part 8. Stereochemistry of the reaction of 1,1-dimethoxypropene with aldehydes, 561–4
- KETO AMIDE**
Diastereoselective reduction of chiral α -ketoamides derived from (*S*)-proline esters with sodium borohydride. Preparation of optically active α -hydroxy acids, 769–72
- KETOL**
Chiral α -sulphinyl hydrazones as effective reagents for stereoselective aldol-type condensation, 251–4
Double stereoselection in the aldol-type synthesis of γ -methyl and γ -alkoxy β -hydroxy ketones mediated by α -sulphinyl hydrazones, 1255–60
Enantiomerically pure sulphanyl-4,5-dihydroisoxazoles. Part 1. Stereocontrolled synthesis of optically active β -ketols and γ -amino alcohols, 2289–92
- KETONE**
Reactions of α -diazo ketones with selenium-based reagents. A general synthesis of α -chloro-, α -bromo-, α -phenylseleno-, α -acetoxy-, and α -methoxy- $\alpha\beta$ -unsaturated ketones, 2193–200
- KETONE REDUCTION**
Synthesis of single isomers (*E* or *Z*) of protected γ,δ -unsaturated ketones by the Horner–Wittig reaction, 2585–98
- KIJANOSE**
Branched-chain sugars. Part 18. Synthesis of D-rubranitrose (2,3,6-trideoxy-3-*C*-methyl-4-*O*-methyl-3-nitro-D-xylo-hexopyranose) and a derivative of D-kijanose (2,3,4,6-tetradeoxy-4-methoxycarbonylamino-3-methyl-3-nitro- α -D-xylo-hexopyranose), 1073–80
- KINETICS**
A kinetic study of phosphinic carboxylic mixed anhydrides, 1617–22
- LABELLING**
Synthesis of the [²H]-labelled urinary lignans enterolactone and enterodiol, 35–8
Photolysis of 1,2,3-selenadiazole. Formation of selenirene by secondary photolysis of selenoketene, 907–12
Photo-induced transformations. Part 79. On the mechanism of the formation of oxa steroids *via* photo- and thermally-induced rearrangement of 3-hydroxy- Δ^5 -steroid hypoidites in the presence of mercury(II) oxide and iodine. An oxygen-18 labelling study, 1431–6
Regiospecific incorporation of no-carrier-added radiobromine and radioiodine into aromatic rings *via* halogenodegermylation, 1687–92

LABELLING (contd)

- Regiospecific no-carrier-added radiobromination and radioiodination of aryltrimethyl group IVb organometallics, 1941–8
- Convenient synthesis of stereospecifically deuterated glycines from glutamic acid using a combination of enzymatic and chemical methods, 2389–92
- The dimerisation of some 4-hydroxyindenes, 2545–54

LACTAM

- Synthesis of a cyclobutanone analogue of a β -lactam antibiotic, 391–8
- Synthesis of novel fused β -lactams by intramolecular 1,3-dipolar cyclo-additions. Part 7. (9*RS*,9*aRS*)-9,9*a*-Dihydro-5-methyl-8-oxo-9-phenoxycetamido-8*H*-azeto[1,2-*a*]-*v*-triazolo[5,1-*c*]pyrazine-6-carboxylic acids and (3*bRS*,4*RS*,7*SR*)-4,5-dihydro-5-oxo-4-phenoxycetamido-3*bH*-azeto[1',2':3,4]imidazo[1,5-*c*]-*v*-triazole-7-carboxylic acid, 1491–8
- Synthesis of novel fused β -lactams by intramolecular 1,3-dipolar cycloadditions. Part 8. 6,7,7*a*,7*b*-Tetrahydro-3-methyl-6-oxo-1*H*-azeto[1,2-*a*]azirino[2,1-*c*]pyrazine-4-carboxylic acids, 1927–34
- Studies on lactams. Part 74. An approach to the total synthesis of amino sugars *via* β -lactams, 2045–50
- Olivanic acid analogues. Part 2. Total synthesis of some C(6)-substituted 7-oxo-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylates, 2219–34
- Investigation of new chiral 1,3-oxazolidine-2-thiones: analytical separation and optical resolution of racemic carboxylic acids and amino acids, 2361–8
- Use of π -allyltricarbyliron lactam complexes in the preparation of norcardicin derivatives: synthesis of (–)-3-oxo-1-[(*p*-benzyloxyphenyl)benzyloxycarbonylmethyl]azetidino-2-one, 2375–82

LACTAM INHIBITOR

- Substituted penicillanic acid 1,1-dioxides as β -lactam inhibitors: studies on 6-benzylidene-and hydroxybenzylpenam sulphones, 963–8

LACTONE

- Synthesis of the [²H]-labelled urinary lignans enterolactone and enterodiol, 35–8
- Structures of the cephalosporolides B–F, a group of C₁₀ lactones from *Cephalosporium aphidicola*, 843–8

LACTONISATION

- Pyrrolizidine alkaloid analogues. Synthesis of 11-membered macrocyclic diesters of (±)-synthancine A, 2475–8

LATIFINE

- Total synthesis of (±)- and (+)-latifine, 2447–54

LEAD DIOXIDE OXIDATION

- Benzenesulphenanilidyl radicals. Part 3. Reactions of 4'-substituted benzenesulphenanilides with *t*-butoxyl radicals, 1577–82

LEAD TETRA-ACETATE

- Oxidation of the dioximes of 1,3-diketones with lead tetra-acetate, 2083–6

LEUCOCYANADIN

- The molecular and crystal structure of (+)-2,3-*trans*-3,4-*trans*-leucocyanadin [(2*R*,3*S*,4*R*)-(+)-3,3',4,4',5,7-hexahydroxyflavan] dihydrate, and comparison of its heterocyclic ring conformation in solution and the solid state, 1413–8

LEUKAEMIA INHIBITOR

- Synthesis of some nucleoside cyclic phosphoramidates and related compounds *via* phosphoramidites, 199–202

LIGNAN

- Synthesis of the [²H]-labelled urinary lignans enterolactone and enterodiol, 35–8
- A general synthesis of 2,6-diaryl-3,7-dioxabicyclo[3.3.0]octane lignans applicable to unsymmetrically substituted compounds, 587–94

LINOLEIC ACID

- Biosynthesis of the pyrethrins: unsaturated fatty acids and the origins of the rethrolone segment, 1393–400

LIQUID CHROMATOGRAPHIC OPTICAL RESOLUTION

- Liquid chromatographic optical resolution of 2,2'-spirobiphenylindan derivatives and absolute stereochemistry as determined by the C.D. exciton chirality method, 1845–8

LITHIATION

- Regioselective α - and β -metallations of thiophene derivatives bearing the 4,4-dimethylloxazolin-2-yl group. Application of the method to syntheses of 2,3- and 2,5-disubstituted thiophene derivatives, 173–82
- Lithiation in flavones, chromones, coumarins, and benzofuran

derivatives, 799–808

Triazolopyridines. Part 5. The reactions of 1,2,3-triazolo[5,1-*a*]isouquinoline: a new route to 1,3-disubstituted isouquinolines, 1897–902

LITHIUM

- Biphenylenes. Part 33. Synthesis of bisbenzo[3,4]cyclobuta[1,2-*b*;1',2'-*h*]- and bisbenzo[3,4]cyclobuta[1,2-*c*;1',2'-*g*]-phenanthrene, and attempts to prepare planar derivatives of cyclo-octatetraene, 115–20
- Applications of organolithium and related reagents in synthesis. Part 3. A general study of the reaction of lithium alkyls with pyridine ketones, 213–20
- sp*²-Hybridized β -substituted organo-lithium, -sodium, and -potassium dianions; preparation, stability, and reactivity, 447–52
- 1,2-Didehydrophenothiazines: preparation of 1-alkyl and 1-aryl-substituted phenothiazines by lithium-directed alkylation, 969–72
- 5,6,7,8-Tetrahydroquinolines. Part 6. Silylation *vs.* thioamidation in the reaction of silyl isothiocyanates with organometallics: influence of the solvent and of the substituents on silicon, 1917–20
- 5,6,7,8-Tetrahydroquinolines. Part 7. Synthesis of 8-cyano-5,6,7,8-tetrahydroquinolines; di-isopropylcyanamide, a new reagent for cyanation of organometallics, 2479–82

LITHIUM DIENOLATE

The chemistry of pseudomonic acid. Part 8. Electrophilic substitutions at C-2 and C-15 of the pseudomonic acid nucleus by means of lithium dienolates, 549–56

LITHIUM METHYLCUPRATE

Conjugate addition of lithium methylcuprates to a gibberellin-1(10*en*)-2-one; preparation of 10-*epi*-gibberellin A₅₃, 1147–50

*S*_N2 and *S*_N2' alkylation of some gibberellin allylic lactones by lithium methylcuprates, 1151–6

LOSSEN-LIKE REARRANGEMENT

- N*-[Aryl(phenyl)phosphinoyl]hydroxylamines: influence of substituents on the competitive migration of aryl and phenyl groups in the Lossen-like rearrangement of their *O*-methanesulphonyl derivatives, 1787–92
- N*-Phosphonoyl and *N*-phosphoroyl hydroxylamines: reactions of their *O*-sulphonyl derivatives with *t*-butylamine, 2651–6

LUCIDONE

Synthesis of lucidones, 453–6

LUPANE

Lichens and fungi. Part 17. The synthesis and absolute configuration at C-20 of the (*R*)- and (*S*)-epimers of some 29-substituted lupane derivatives and of some 30-norlupan-20-ol derivatives and the crystal structure of (20*R*)-3 β -acetoxyilupan-29-ol, 2051–6

LYSERGIC ACID

Photocyclisation of enamides. Part 24. Total synthesis of (±)-isofumigaclavine B and (±)-lysergic acid, 941–8

MACROCYCLE

Proton-assisted transport of amino acid and related polycarboxylate anions *via* polyammonium macrocycles, 615–20

Role of metal salts in the synthesis of furan-ketone condensation macrocycles: an 'apparent' metal template effect, 973–82

MACROLIDE

An analysis of the ¹H and ¹³C n.m.r. spectra of erythromycin A using two-dimensional methods, 2599–604

MAGNESIUM

The reduction of tertiary *N*-styrylenamides, 1781–6

MAGNESIUM ION EFFECT

Redox-photosensitised reactions. Part 12. Effects of magnesium(II) ion on the [Ru(bpy)₃]²⁺-photomediated reduction of olefins by 1-benzyl-1,4-dihydronicotinamide: metal-ion catalysis of electron transfer processes involving an NADH model, 1527–32

MALEIC ANHYDRIDE

Photochemical transformation of tetrabromofuran by oxygen into 2,3,4,4-tetrabromobut-2-en-4-olide in the solid state, 45–52

MALONAMIDE

Synthesis of heterocyclic compounds. Part 46. The reactions of malonamide and 2-cyanoacetamide with substituted propenones, 1681–6

MALYNGOLIDE

A stereoselective synthesis of (±)-malyngolide, 1157–60

MANDELOHYDRAZIDE

An investigation into the mechanism of formation of oxadiazoles and arylidenehydrazides from the action of methanolic potassium hydroxide on 1,4-dihydro-*s*-tetrazines, 1081–6

MANGANESE

Radical-cations as intermediates in the oxidation of alkenes by metal ions, 1087–94

MANNICH BASE

Photocyclization of *N*-(dialkylaminoalkyl) aromatic 1,2-dicarboximides. *X*-Ray molecular structure of a stereoisomer of 4-benzyl-2-hydroxy-3-phenyl-4,6-diazatricyclo[6.4.0.0^{2,6}]dodeca-1(12),8,10-trien-7-one, 121–30

MARASMIUS ALLIACEUS

1 α -Hydroxyalliicolide, a sesquiterpenoid metabolite of *Marasmius alliaceus*. *X*-Ray molecular structure of 1 α -hydroxyalliicolide, 2749–52

MARIGOLD

The biosynthesis of calendic acid, octadeca-(8*E*,10*E*,12*Z*)-trienoic acid, by developing marigold seeds: origins of (*E*,*E*,*Z*) and (*Z*,*E*,*Z*) conjugated triene acids in higher plants, 2425–34

MARSCHALK REACTION

Anthracyclinones. Part 3. Use of di-isopropylidene-D-glucose and a modified Marschalk reaction to introduce a tertiary carbinol function into ring D of anthracyclinones, 875–82

Anthracyclinones. Part 4. The use of DBN or DBU in a novel extension of the Marschalk reaction leading to hydroxyglycylanthraquinones.

MASS SPECTROMETRY

Structure of the capsular polysaccharide from *Streptococcus pneumoniae* type 9, 1665–74

Syntheses of (\pm)-tetrahydropalmatine and spirobenzylisoquinolines by thermolysis of benzocyclobutene derivatives, 2151–4

MEMBRANE CARRIER

Proton-assisted transport of amino acid and related polycarboxylate anions via polyammonium macrocycles, 615–20

MERCAPTO KETONE

A new general synthesis of 2-(*N*-mono- and *N*-di-substituted amino)thiazoles, 1623–6

MERCURIALIS PERENNIS

Isolation, structure, and synthesis of hermidin, a chromogen from *Mercurialis perennis* L., 1757–66

MERCURIO STEROID

4-Chloromercurioandrosta-4,6-diene-3,17-dione: preparation, *X*-ray structure determination, and potential utility, 1049–54

MERCURY

Unsaturated carbohydrates. Part 28. Observations on the conversion of 6-deoxyhex-5-enopyranosyl compounds into 2-deoxyinosose derivatives, 2413–6

MERCURY OXIDE-IODINE REAGENT

Photo-induced transformations. Part 76. Ring expansion through a [2 + 2] photocycloaddition- β -scission sequence; the photorearrangement of *endo*-4-cyanotricyclo[6.4.0.0^{2,5}]dodeca-1(12),6,8,10-tetraen-5-yl hypiodite to 4-cyanotricyclo[6.4.0.0^{2,4}]dodeca-1(12),6,8,10-tetraen-5-one.² *X*-Ray crystal structure of 4-cyanotricyclo[6.4.0.0^{2,4}]dodeca-1(12),6,8,10-tetraen-5-one, 327–30

MEROTERPENOID

Metabolites of *Aspergillus ustus*. Part 1. Application of the heteronuclear selective population inversion (SPI) n.m.r. technique to the structure elucidation of the austrialides A–F, novel ortho ester meroterpenoids, 345–56

Metabolites of *Aspergillus ustus*. Part 2. Stereoelectronic control in the acid-catalysed hydrolysis of the ortho ester moiety in austrialides A–F, 357–62

Metabolites of *Aspergillus ustus*. Part 3. Structure elucidation of austrialides G–L¹, 363–8

MESONIC

Synthesis of mesoionic analogues of heptafulvene via dicationic ether salts derived from mesoionic olates and trifluoromethanesulphonic anhydride, 2439–42

MESOIONIC

Heterocycles by cycloaddition. Part 7. Cycloaddition reactions of mesoionic dithioles with fulvenes, 1245–7.

MESOIONIC OXAZOLONE

Mesoionic oxazolones in heterocyclic syntheses. Reaction of 2,4-diphenyloxazol-5(4*H*)-one with 1-azabuta-1,3-dienes, 773–8

METABOLITE

Ovine III-thrift in Nova Scotia. Part 10. Palladium and rhodium complexes as reagents in the investigation of isocyanide metabolites of *Trichoderma hamatum*, 441–6

Metabolites of the higher fungi. Part 22. 2-Butyl-3-methylsuccinic acid and 2-hexylidene-3-methylsuccinic acid from xylariaceous fungi, 1481–6

Structure elucidation of a novel trichothecene glycoside using ¹H and ¹³C nuclear magnetic resonance spectroscopy, 1553–6

METACYCLOPHANE

Intramolecular reactions of *N*-nitrenes: oxidation of 3-amino-2-(2,4-dimethoxyphenylbutyl)quinazolin-4(3*H*)-ones, 825–30

METAL CHELATION

Coenzyme models. Part 39. Synthesis and properties of a flavin with a fused phenolate moiety which serves as a metal chelation site, 565–74

METAL-ION PROMOTED OXIDATION

Additions to alkenes via metal ion-promoted oxidation of dialkyl and diaryl disulphides, 1039–44

Additions to alkenes via metal ion-promoted oxidation of 2,2'-dipyridyl disulphide and bis-(2-aminophenyl) disulphide, 1045–8

METALLATION

Regioselective α - and β -metallations of thiophene derivatives bearing the 4,4-dimethyloxazolin-2-yl group. Application of the method to syntheses of 2,3- and 2,5-disubstituted thiophene derivatives, 173–82

1,2-Didehydrophenothiazines: preparation of 1-alkyl and 1-aryl-substituted phenothiazines by lithium-directed alkylation, 969–72

New synthetic routes to spiroacetals. The 3,4-dihydro-2*H*-pyran approach to (\pm)-talaromycin B, 1879–84

Directed metallations of 4-ethylidenetetronic acid *O*-methyl ether and its derivatives as a synthetic entry to natural 4-oxyluran-2-ones, 2399–406

METAL SALT

Role of metal salts in the synthesis of furan–ketone condensation macrocycles: an 'apparent' metal template effect, 973–82

METAL TEMPLATE EFFECT

Role of metal salts in the synthesis of furan–ketone condensation macrocycles: an 'apparent' metal template effect, 973–82

METHANESULPHONYL DERIVATIVE

N-[Aryl(phenyl)phosphinoyl]hydroxylamines: influence of substituents on the competitive migration of aryl and phenyl groups in the Lossen-like rearrangement of their *O*-methanesulphonyl derivatives, 1787–92

METHIONINE

The biosynthesis of spermidine. Part 1: Biosynthesis of spermidine from L-[3,4-¹³C₂]methionine and L-[2,3,3-²H₃]methionine, 2007–10

Biosynthesis of spermidine. Part 3: The stereochemistry of the formation of the N-CH₂ group in the biosynthesis of spermidine, 2017–24

METHOTREXATE

Stereochemistry of reduction of the vitamin folic acid by dihydrofolate reductase, 1349–54

METHYLATION

Methylation of adenosine and related nucleosides with trimethylselenonium hydroxide, and regiospecific effects of copper(II) ions, 1327–30

MICHAEL ADDITION

Electrophilic substitution of β,γ -unsaturated esters and ketones using phenyl vinyl sulphoxide as a vinyl cation synthon, 661–8

3*aH*-Indenes. Part 3. Base induced dimerisation of 3,7*a*-dihydro-4,7*a*-dimethyl-5*H*-inden-5-one. *X*-Ray structure determination of the hexacyclic dimer system, 711–8

Michael additions catalysed by cinchona alkaloids bound via their vinyl groups to preformed crosslinked polymers, 2327–32

Investigation of new chiral 1,3-oxazolidine-2-thiones: analytical separation and optical resolution of racemic carboxylic acids and amino acids, 2361–8

MICHAEL REACTION

Synthesis of heterocyclic compounds. Part 46. The reactions of malonamide and 2-cyanoacetamide with substituted propenones, 1681–6

Studies on sugar nitro-olefins. Part 6. Synthesis of (3*R*)-3,5,6,7-tetrahydro-2-hydroxyimino-3-(penta-*O*-acetyl-pentitol-1-yl)benzofuran-4(2*H*)-ones from 3,4,5,6,7-penta-*O*-acetyl-1,2-dideoxy-1-nitrohept-1-enitols and cyclohexane-1,3-diones, 2695–700

MICROBIOLOGICAL TRANSFORMATION

Microbiological transformations. Part 6. Microbiological transformations of acyl derivatives of indoline, 1,2,3,4-tetrahydroquinoline, 1,2,3,4-tetrahydroisoquinoline and 2,3,4,5-tetrahydro-1*H*-1-benzazepine with the fungus *Cunninghamella elegans*, 1381–6

MICROCYSTIS AERUGINOSA

Structural studies on cyanoginsins-LR, -YR, -YA, and -YM,

MICROCYSTIS AERUGINOSA (contd)peptide toxins from *Microcystis aeruginosa*, 2747–8**MIGRATORY APTITUDE***N*-[Aryl(phenyl)phosphinoyl]hydroxylamines: influence of substituents on the competitive migration of aryl and phenyl groups in the Lossen-like rearrangement of their *O*-methanesulphonyl derivatives, 1787–92**MITSUNOBU REACTION**

Systematic general synthesis of purine 8,5'-imino and substituted imino cyclonucleosides, 2337–46

MOLLIC ACIDThe characterisation of mollic acid 3 β -D-xyloside and its genuine aglycone mollic acid, two novel 1 α -hydroxycycloartenoids from *Combretum molle*, 1711–6**MOLYBDENUM**

Metal-carbonyl-induced reaction of isoxazoles. Ring cleavage and reduction by hexacarbonylmolybdenum, pentacarbonyliron, or nonacarbonyliron, 1401–6

The preparation of 1-aryl- and 1-heteroaryl-alkene-1,2-dithiolates, 1907–10

MONIC ACIDThe chemistry of pseudomonic acid. Part 7. Stereochemical control in the preparation of C-2-substituted monic acid esters *via* the Peterson olefination, 541–8

The chemistry of pseudomonic acid. Part 8. Electrophilic substitutions at C-2 and C-15 of the pseudomonic acid nucleus by means of lithium dienolates, 549–56

MORPHOLINEChiral synthesis of 3-substituted morpholines *via* serine enantiomers and reductions of 5-oxomorpholine-3-carboxylates, 2577–80**NACTIN**

Binding and transport of alkali metal ions by synthetic analogues of nactins, 1717–24

NADH

Reduction of imines using NADH models, 437–40

NADH MODELRedox-photosensitised reactions. Part 12. Effects of magnesium(II) ion on the [Ru(bpy)₃]²⁺-photomediated reduction of olefins by 1-benzyl-1,4-dihydronicotinamide: metal-ion catalysis of electron transfer processes involving an NADH model, 1527–32**NAGILACTONES**

Inter- and intra-molecular reactions of allene-1,3-dicarboxylic acid esters with 2-vinylfurans and 2-vinylthiophenes. A potential route to a BC ring precursor of the nagilactones, 747–56

NAPHTHALENE

Thermolysis of phenyl-substituted 1,2-dihydronaphthalenes. Evidence for diphenylbutadienes as intermediates, 1819–28

NAPHTHOFURANMetabolic products of *Phomopsis oblonga*. Part 1.3a,5a,6,7,8,9,9a,9b-octahydro-7,9b-dimethylnaphtho[1,2-*c*]furan-1(3*H*)-one (Oblongolide), 861–4Furan derivatives. Part 6. On effect of ring size in synthesis of 4,5-dihydro-3*H*-naphtho[1,8-*bc*]furans and their analogues, 1001–6

Partially fluorinated heterocyclic compounds. Part 20.

Isomerisations of pentafluorophenyl and 1,3,4,5,6,7,8-heptafluoro-2-naphthyl prop-2-ynyl ethers. Reactions of the naphthyl ether and 2-fluoromethyl-4,5,6,7,8,9-hexafluoronaphtho-[2,1-*b*]furan with 2,3-dimethylbut-2-ene and with 3,3-dimethylbut-1-ene, 2637–42**NECIC ACID**

Necic acid synthons. Part 4. Regioselectivity in the reactions of chloro and iodo derivatives of selected 3-hydroxy-2-methylenealkanoate esters with ethyl 2-methyl-3-oxobutanoate, 1143–6

Necic acid synthons. Part 5. Total synthesis of (±)-retronecic acid and related compounds *via* zinc-mediated coupling of halogeno-esters, 2713–8**NEIGHBOURING-GROUP PARTICIPATION**Neighbouring group participation in the allylic oxidation of a Δ^5 -steroid, 647–50**NEOLIGNAN**

Asymmetric synthesis of 3-methyl-2-phenyl-1,4-benzodioxanes. Absolute configuration of the neolignans eusiderin and eusiderin C and D, 2555–8

NICKEL CATALYSTA general approach to the synthesis of mono-olefinic insect sex pheromones of *Z*- or *E*-configuration, 1115–20**NITRATION**

Studies of chromenes. Part 5. Reaction of the Vilsmeier reagent

with 7-methoxy-2,2-dimethylchroman-4-ones. 4-Chloro-7-methoxy-2,2-dimethyl-2*H*-chromenes and their nitration products, 1127–36**NITRENE**Intramolecular reactions of *N*-nitrenes: oxidation of 3-amino-2-(2,4-dimethoxyphenylethyl)quinazolin-4(3*H*)-ones, 335–40Intramolecular reactions of *N*-nitrenes: oxidation of 3-amino-2-(2,4-dimethoxyphenylpropyl)quinazolin-4(3*H*)-one, 341–4Intramolecular reactions of *N*-nitrenes: oxidation of 3-amino-2-(2,4-dimethoxyphenylbutyl)quinazolin-4(3*H*)-ones, 825–30

Metal-carbonyl-induced reaction of isoxazoles. Ring cleavage and reduction by hexacarbonylmolybdenum, pentacarbonyliron, or nonacarbonyliron, 1401–6

Formation and reactions of *C*-nitrosoformate esters, a new class of transient dienophiles, 1437–42

Oxidation of 2,4-dinitrobenzenesulphenamide in the presence of 2,3,4,5-tetraphenylpyrrole, 1967–70

NITRENIUM ION

Addition of phenylnitrenium ion to olefins. Reactions of phenyl azide with some olefins in the presence of trifluoroacetic acid, 677–84

NITRILE

Activated nitriles in heterocyclic synthesis: reaction of cyanogen bromide with some functionally substituted enamines, 1499–502

NITRILE IMINE

Cycloaddition reactions of 1,4,2-dithiazole-5-thiones, 1205–8

1,3-Dipolar cycloadditions with alkynyl phenyl sulphones, 2621–4

NITRILE OXIDE

The nitrile oxide-isocyanate rearrangement, 1181–4

1,3-Dipolar cycloadditions with alkynyl phenyl sulphones, 2621–4

Stereoselective addition of benzonitrile oxide and *N*-benzyl-*C*-phenylnitrone to (5*RS*,6*SR*)-5,6-dihydro-6-ethyl-5-methylpyran-2(2*H*)-one. Crystal structure of (1*RS*,4*RS*,5*RS*,6*RS*,9*SR*)-8-benzyl-1,5-dimethyl-4-ethyl-9-phenyl-3,7-dioxo-8-azabicyclo[4.3.0]nonan-2-one, 2763–8**NITRILE SULPHIDE**

Nitrile sulphides. Part 3. Thermal fragmentation of 1,3,4-oxathiazoles: formation of nitrile sulphides in a retro-1,3-dipolar cycloaddition reaction, 1517–22

NITRILE SYNTHESIS

5,6,7,8-Tetrahydroquinolines. Part 7. Synthesis of 8-cyano-5,6,7,8-tetrahydroquinolines; di-isopropylcyanamide, a new reagent for cyanation of organometallics, 2479–82

NITRONE

A formal total synthesis of ipalbidine, 261–6

Dynamic stereochemistry of imines and derivatives. Part 18. Photosynthesis and photoracemization of optically active oxaziridines, 849–56

Ketene. Part 23. Conformational control of the addition reactions of ketenes with *N*-phenylnitrones, 1837–44Ketene. Part 24. The reactions of *N*-(fluoren-9-ylidene)methylamine *N*-oxide with dimethylketene and ketene, 2501–4The stereoselectivity of addition of *N*-benzyl-*C*-alkylnitrones to methyl crotonate. *X*-Ray crystal structure of (3*RS*,4*SR*,5*RS*)-2-benzyl-4-methoxycarbonyl-5-methyl-3-[(4*RS*)-2,2,5,5-tetramethyl-1,3-dioxolan-4-yl]isoxazolidine, 2753–62Stereoselective addition of benzonitrile oxide and *N*-benzyl-*C*-phenylnitrone to (5*RS*,6*SR*)-5,6-dihydro-6-ethyl-5-methylpyran-2(2*H*)-one. Crystal structure of (1*RS*,4*RS*,5*RS*,6*RS*,9*SR*)-8-benzyl-1,5-dimethyl-4-ethyl-9-phenyl-3,7-dioxo-8-azabicyclo[4.3.0]nonan-2-one, 2763–8**NITROSATION**

Nitrosation of 2-amino-2-deoxy-D-galactitol; a model experiment for the study of reduced oligosaccharides derived from mucus glycoproteins, 2775–8

NITROSOAMINE

Nitrosamines from tertiary amines and dinitrogen tetroxide, 1661–4

NITROSO-CARBONYLReactions of transient *C*-nitroso-carbonyl compounds with dienes, mono-olefins, and nucleophiles, 883–6Cycloadducts of *C*-nitroso-carbonyl compounds and ergosteryl acetate; [3,3]sigmatropic rearrangements of *N*-aroyl-3,6-dihydro-1,2-oxazines, 887–92**NITROSOFORMAMIDE***C*-Nitrosoformamides, a new class of transient dienophiles formed by oxidation of *N*-hydroxyureas, 2469–74**NITROSOFORMATE ESTER**Formation and reactions of *C*-nitrosoformate esters, a new class of

NITROSOFORMATE ESTER (contd)

transient dienophiles, 1437-42

An efficient synthesis of 14 β -aminocodeinone from thebaine, 1443-6**NITROSOFORMATES**

Intramolecular 'ene' reactions of transient, allylic, and homoallylic

C-nitrosoformate esters, 1961-6**NITROSOLYSIS**

Nitrosamines from tertiary amines and dinitrogen tetroxide, 1661-4

NIVALENOLPhytotoxic compounds produced by *Fusarium equiseti*. Part 7.

Reactions and rearrangement of the 7-hydroxy-12,13-epoxytrichothec-9-en-8-one skeleton, 1731-6

N.M.R.Biphenylenes. Part 33. Synthesis of bisbenzo[3,4]cyclobuta[1,2-*b*:1',2'-*h*]- and bisbenzo[3,4]cyclobuta[1,2-*c*:1',2'-*g*]-phenanthrene, and attempts to prepare planar derivatives of cyclo-octatetraene, 115-20Polyphenols from dipterocarp species. Vaticaffinol and ϵ -viniferin, 159-62Prostaglandins: a novel synthesis of \pm -PGF_{1 α} via cyclopentane-1,3-dione derivatives, 203-6Both-faces hindered porphyrins. Part 3. Synthesis and characterization of internally five-co-ordinated iron(II) basket handle porphyrins derived from 5,10,15,20-tetrakis(*o*-aminophenyl)porphyrin, 221-32The derivation of carbon-proton internuclear distances in organic natural products from ¹³C relaxation rates and nuclear Overhauser effects, 239-44The solution structure of [Ala⁴]-desdimethylchlamydocin: a ¹H n.m.r. relaxation study, 245-50A nuclear magnetic resonance study of the conversion of 4 β -acetoxy-3 β -hydroxy- Δ^5 -steroids into 3 β ,6 β -diacetoxy- Δ^4 -steroids, 331-4Metabolites of *Aspergillus ustus*. Part 1. Application of the heteronuclear selective population inversion (SPI) n.m.r. technique to the structure elucidation of the australides A-F, novel ortho ester meroterpenoids, 345-56Metabolites of *Aspergillus ustus*. Part 2. Stereoelectronic control in the acid-catalysed hydrolysis of the ortho ester moiety in australides A-F, 357-62Metabolites of *Aspergillus ustus*. Part 3. Structure elucidation of australides G-L¹, 363-8Intact incorporation of δ -(α -L-aminoadipoyl)-L-[3-¹³C]cysteinyl-D-[¹⁵N]valine into isopenicillin N. Observation of one-bond ¹³C-¹⁵N coupling, 369-72

Synthesis of lucidones, 453-6

Application of diphenylphosphinic carboxylic mixed anhydrides to peptide synthesis, 461-70

Synthesis and stereochemistry of substituted bi- and tricyclic 4,5-dihydropyrazoles, 481-6

Revised structures of the two C₅₀ carotenoids C.p. 450 and C.p. 473 from *Corynebacterium poinsettiae*, 601-4Neighbouring group participation in the allylic oxidation of a Δ^5 -steroid, 647-50Nitrogen bridgehead compounds, Part 49. Synthesis and stereochemistry of 9-aminotetrahydro-4*H*-pyrido[1,2-*a*]pyrimidin-4-ones., 1015-8Acid-induced broadening of ¹H n.m.r. signals in the 6-hydroxychroman and 5-hydroxydihydrobenzofuran series, 1301-10

Studies in terpenoid biosynthesis. Part 31. Some aspects of the chemistry and biosynthesis of the steroidal antibiotic, demethoxyviridin, 1311-4

Stereochemistry of catabolism of the RNA base uracil, 1355-62

Secondary mould metabolites. Part 13. Fungal perylenequinones: phelechrome, isophelechrome, and their endoperoxides, 1387-92

Structure elucidation of a novel trichothecene glycoside using ¹H and ¹³C nuclear magnetic resonance spectroscopy, 1553-6

Anthracyclinones. Part 4. The use of DBN or DBU in a novel extension of the Marschalk reaction leading to hydroxyglycylanthraquinones, 1557-64

Formation of complexes between aza derivatives of crown ethers and primary alkylammonium salts. Part 8. 12-Crown-4, 15-crown-5, 21-crown-7, and 24-crown-8 derivatives, 1637-44

Structure of the capsular polysaccharide from *Streptococcus pneumoniae* type 9, 1665-74The characterisation of mollic acid 3 β -D-xyloside and its genuineaglycone mollic acid, two novel 1 α -hydroxycycloartenoids from *Combretum molle*, 1711-6

N.M.R. spectra and conformations of 9,10-dihydroanthracenes, 1849-58

A ²H n.m.r. study of the steroidal dienone-phenol rearrangement, 2129-32Physapubenolide and pubescenin, two new ergostane-type steroids from *Physalis pubescens* L. (Solanaceae), 2241-6

Nuclear magnetic resonance studies of 1,6-linked disaccharides, 2383-8

The conformation of fujenal, a seco-ring B *ent*-kaurenoid diterpene, 2493-6

The dimerisation of some 4-hydroxyindenes, 2545-54

An analysis of the ¹H and ¹³C n.m.r. spectra of erythromycin A using two-dimensional methods, 2599-6041 α -Hydroxyalliocolide, a sesquiterpenoid metabolite of *Marasmius alliaceus*. X-Ray molecular structure of 1 α -hydroxyalliocolide, 2749-52**N.M.R.**¹H N.m.r. studies of the structure of ristocetin A and of its complexes with bacterial cell wall analogues in aqueous solution, 949-56**N.O.E.**Synthesis of imidazo-fused bridgehead-nitrogen 2'-deoxyribo-*C*-nucleosides: coupling-elimination reactions of 2,5-anhydro-3,4,6-tri-*O*-benzoyl-D-allonic acid, 621-30**NORCARDICIN**Use of π -allyltricarboxyliron lactam complexes in the preparation of nocardicin derivatives: synthesis of (-)-3-oxo-1-[(*p*-benzyloxyphenyl)benzyloxycarbonylmethyl]azetidino-2-one, 2375-82**NORSEQUITERPENE**Metabolic products of *Phomopsis oblonga*. Part 1.3a,5a,6,7,8,9,9a,9b-octahydro-7,9b-dimethylnaphtho[1,2-*c*]furan-1(3*H*)-one (Oblongolide), 861-4**NUCLEAR OVERHAUSER EFFECT**¹H N.m.r. studies of the structure of ristocetin A and of its complexes with bacterial cell wall analogues in aqueous solution, 949-56The differentiation of π - and τ -derivatised histidines, 1811-5**NUCLEOPHILIC SUBSTITUTION**Nucleophilic substitution in quaternary salts of *NN'*-linked diazoles and related systems, 1209-16**NUCLEOSIDE**Nucleoside analogues. Part 2. Further molecular combinations of (5-substituted) uracil and *N*-(2-chloroethyl)-*N*-nitrosourea residues as anticancer agents, 93-100

Synthesis of some nucleoside cyclic phosphoramidates and related compounds via phosphoramidites, 199-202

Synthesis of imidazo-fused bridgehead-nitrogen 2'-deoxyribo-*C*-nucleosides: coupling-elimination reactions of 2,5-anhydro-3,4,6-tri-*O*-benzoyl-D-allonic acid, 621-30Syntheses of β -D-arabinofurano[1',2':4,5]oxa(thia)zolidines, 779-84A convenient method for the synthesis of *P*¹-(7-methylguanosine-5') *P*²-(ribonucleoside-5')diphosphates, 997-1000Synthesis of ara-doridosine, a new arabinosyl nucleoside resistant to adenosine deaminase. X-Ray structure determination of 6-*N*,9(*N*)-diacetyl-1(*N*)-methylisoguanine, 1315-22

Methylation of adenosine and related nucleosides with trimethylselenonium hydroxide, and regiospecific effects of copper(II) ions, 1327-30

C-Nucleoside studies. Part 18. The synthesis of *C*-nucleoside analogues of the antiviral agent (*S*)-9-(2,3-dihydroxypropyl)adenine, 1425-30

Synthesis and properties of some hydrazo- and oxamido-bridged purine nucleosides, 2347-52

OBLONGOLIDEMetabolic products of *Phomopsis oblonga*. Part 1.3a,5a,6,7,8,9,9a,9b-Octahydro-7,9b-dimethylnaphtho[1,2-*c*]furan-1(3*H*)-one (Oblongolide), 861-4**OCHROMONAS MALHAMENSIS**Mechanism of the transmethylation reaction by *S*-adenosylmethionine: stereochemistry of hydride migration from C-24 to C-25 in the biosynthesis of poriferasterol in the cryptophyte *Ochromonas malhamensis*, 521-4**OLEFIN**

Thermal and photochemical studies of symmetrical and unsymmetrical dihydro-1,3,4-selenadiazoles, 107-14

Pyridylseleno group in organic synthesis. Part 4. Oxyselemination of

OLEFIN (contd)

olefins using pyridine-2-selenenyl bromide as a selenium reagent and its utilization in the synthesis of 2-pyridyl vinylic selenides, 373-8

Addition of phenylnitrenium ion to olefins. Reactions of phenyl azide with some olefins in the presence of trifluoroacetic acid, 677-84

Regio- and stereo-selective desulphurizative γ -substitution of α -substituted β -methylallyl sulphoxides and sulphones with lithium dialkylcuprates providing trisubstituted olefins, 1171-6

Redox-photosensitized reactions. Part 12. Effects of magnesium(II) ion on the $[\text{Ru}(\text{bpy})_3]^{2+}$ -photomediated reduction of olefins by 1-benzyl-1,4-dihydronicotinamide: metal-ion catalysis of electron transfer processes involving an NADH model, 1527-32

β -Halogeno ether synthesis of olefinic alcohols: stereochemistry and conformation of 2-substituted 3-halogenotetrahydro-pyran and -furan precursors, 1971-82

β -Halogeno-ether synthesis of olefinic alcohols: stereochemistry of the ring-scission of 2-substituted 3-halogenotetrahydro-pyrans and -furans, 1983-96

OLEFINATION

Preparation of vinylic sulphones by Peterson olefination using phenyl trimethylsilylmethyl sulphone, 1949-52

OLIGOMER

Reactions of tetrafluoroethene oligomers. Part 3.¹ Some reactions of tetrafluoroethene hexamer with nitrogenous bases, 2185-90

OLIGOMERISATION

Reactions involving fluoride ion. Part 31. Co-oligomers of perfluoro-1-methyl-1,3-diazacyclopent-2- and -3-ene, 53-6

OLIGOSACCHARIDE

Synthesis of three oligosaccharides that form part of the complex type of carbohydrate moiety of glycoproteins containing intersecting *N*-acetylglucosamine, 535-40

Strategies for the synthesis of branched oligosaccharides of the *Shigella flexneri* 5a, 5b, and variant X serogroups employing a multifunctional rhamnose precursor, 2251-60

Nuclear magnetic resonance studies of 1,6-linked disaccharides, 2383-8

Nitrosation of 2-amino-2-deoxy-D-galactitol; a model experiment for the study of reduced oligosaccharides derived from mucus glycoproteins, 2775-8

OLIVANIC ACID

Olivanic acid analogues. Part 2. Total synthesis of some C(6)-substituted 7-oxo-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylates, 2219-34

Olivanic acid analogues. Part 3. Total synthesis of C(6 α)-methoxy-substituted 7-oxo-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylates, 2235-40

OPTICAL RESOLUTION

Total synthesis of (+)-(1,2,3,4,5)-2,3,4,5-tetrahydroxycyclohexane-1-methanol and (+)-(1,3,2,4,5)-5-amino-2,3,4-trihydroxycyclohexane-1-methanol [(+)-validamine]. *X*-Ray crystal structure of (3*S*)-(+) -2-*exo*-bromo-4,8-dioxatricyclo[4.2.1.0^{3,7}]nonan-5-one, 903-6

Liquid chromatographic optical resolution of 2,2'-spirobibenz[e]indan derivatives and absolute stereochemistry as determined by the C.D. exciton chirality method, 1845-8

Investigation of new chiral 1,3-oxazolidine-2-thiones: analytical separation and optical resolution of racemic carboxylic acids and amino acids, 2361-8

ORGANIC METAL

New electron donors for organic metals: the synthesis of highly conjugated bis-(1,3-dithiole) derivatives, 1675-80

ORGANOMETALLIC

sp^2 -Hybridized β -substituted organo-lithium, -sodium, and -potassium dianions; preparation, stability, and reactivity, 447-52

5,6,7,8-Tetrahydroquinolines. Part 7. Synthesis of 8-cyano-5,6,7,8-tetrahydroquinolines; di-isopropylcyanamide, a new reagent for cyanation of organometallics, 2479-82

ORNITHINE DECARBOXYLASE

Stereospecific synthesis of (2*R*,5*R*)-hept-6-ene-2,5-diamine: a potent and selective enzyme-activated irreversible inhibitor of ornithine decarboxylase (ODC), 2201-8

ORTHO ESTER

Metabolites of *Aspergillus ustus*. Part 2. Stereoelectronic control in the acid-catalysed hydrolysis of the ortho ester moiety in australianolides A-F, 357-62

OXABICYCLOHEPTANE

Synthesis of a cyclobutanone analogue of a β -lactam antibiotic, 391-8

The chemistry of fungi. Part 80. The *X*-ray crystallographic structure of 8 β -bromo-5 α ,5,6,7,8,8 α -hexahydro-1,7 α -dihydroxy-8 α -methoxycarbonylxanthone monohydrate, a rearrangement product of methyl 2 α -bromo-2 β -(2,6-dimethoxybenzoyl)-7-oxabicyclo[2.2.1]heptane-3 β -carboxylate: a novel route to xanthones: the synthesis of pinselin, 1343-8

OXACARBENE

The photochemistry of ketones derived from carbohydrates. Part 10. A study of stereochemical influences on photo-induced rearrangements and ring expansions of 3-oxacyclopentanones using 1,2-*O*-isopropylidene-furanos-3-ulose derivatives, 575-82

OXACYCLOPENTANONE

The photochemistry of ketones derived from carbohydrates. Part 10. A study of stereochemical influences on photo-induced rearrangements and ring expansions of 3-oxacyclopentanones using 1,2-*O*-isopropylidene-furanos-3-ulose derivatives, 575-82

OXADIAZINE

Triazines and related products. Part 30. Cationic analogues of the antitumour drug 2,4,6-tris(dimethylamino)-1,3,5-triazine(hexamethylmelamine), 1533-40

OXADIAZOLE

An investigation into the mechanism of formation of oxadiazoles and arylidenehydrazides from the action of methanolic potassium hydroxide on 1,4-dihydro-*s*-tetrazines, 1081-6

OXATHIAZOLE

Nitrile sulphides. Part 3. Thermal fragmentation of 1,3,4-oxathiazoles: formation of nitrile sulphides in a retro-1,3-dipolar cycloaddition reaction, 1517-22

OXATHIIN

Synthesis of novel 5- and 6-substituted 3-arylidene-1,4-oxathiin-2(3*H*)-ones, 2417-24

OXATRIAZASPIRONONANE

A new spiro annelation reaction in the isoxazole series: applications and limits, 1871-4

OXAZEPINONE

Intramolecular 'ene' reactions of transient, allylic, and homoallylic *C*-nitrosoformate esters, 1961-6

OXAZINE

Acid-catalysed rearrangement of 3-acyl-6-alkoxy-5,6-dihydro-4*H*-1,2-oxazines: a route to 3-alkoxy-pyridine 1-oxides, 2769-74

OXAZINONE

Intramolecular 'ene' reactions of transient, allylic, and homoallylic *C*-nitrosoformate esters, 1961-6

OXAZIRIDINE

Dynamic stereochemistry of imines and derivatives. Part 18. Photosynthesis and photoracemization of optically active oxaziridines, 849-56

The synthesis of NH aldimines and derivatives by spontaneous and base-catalysed decomposition of oxaziridines, 2123-8

OXAZOLE

An efficient and short degradation of the cholic acid side chain: a new method for the preparation and dehydrogenation of 4,5-dihydro-oxazoles, 1865-70

OXAZOLIDINE

Syntheses of β -D-arabinofurano[1',2':4,5]oxa(thia)zolidines, 779-84

Investigation of new chiral 1,3-oxazolidine-2-thiones: analytical separation and optical resolution of racemic carboxylic acids and amino acids, 2361-8

OXAZOLIDINONE

Intramolecular 'ene' reactions of transient, allylic, and homoallylic *C*-nitrosoformate esters, 1961-6

OXAZOLINE

Chemistry of bacterial endotoxins. Part 3. Reactions of oxazolines derived from 1,3,4,6-tetra-*O*-acetyl-2-[(3*R*)-3-hydroxytetradecanamido]- β -D-glucopyranose, 57-60

Regioselective α - and β -metallations of thiophene derivatives bearing the 4,4-dimethyloxazolin-2-yl group. Application of the method to syntheses of 2,3- and 2,5-disubstituted thiophene derivatives, 173-82

Mesoionic oxazolones in heterocyclic syntheses. Reaction of 2,4-diphenyloxazol-5(4*H*)-one with 1-azabuta-1,3-dienes, 773-8

OXAZOLOISOINDOLE

Synthesis and reactions of 2,3-dihydro-oxazolo[2,3-*a*]isoidol-5(9*bH*)-ones, 809-14

OXEPANE

A total synthesis of zoapatanol, 1589-96

OXEPANE (contd)

Silicon-mediated annulation. Part 1. A synthesis of tetrahydropyran-4-one, oxepan-4-ones, and oxocan-4-ones *via* intramolecular directed aldol reactions, 2093-100

OXEPINOPHANE

The synthesis of hetero-bridged [5](3,6)oxepinophanes, 2119-22

OXETANE

Chemistry of ketene acetals. Part 8. Stereochemistry of the reaction of 1,1-dimethoxypropene with aldehydes, 561-4
3 β ,19-Oxidoisopimara-7,15-diene as intermediate in the conversion of virescenol B into isopimara-7,15-dien-19-ol, 2173-6

OXIDATION

A new method for the oxidation of alkenes to enones. An efficient synthesis of Δ^5 -7-oxo steroids, 267-74

m-Chloroperbenzoic acid oxidation of dioxins and dihydrodioxins, 457-60

Oxidation of alkyl phenyl selenides, tellurides, and telluroxides with *meta*-chloroperbenzoic acid for a facile and novel transformation of C-Se and C-Te bonds to C-O bonds, 471-80

Liquid-phase 1,4-diacetoxylation of conjugated dienes with tellurium(IV) oxide and alkali metal halides, 499-504

Acid-catalysed intramolecular C-alkylation in β,γ -unsaturated diazomethyl ketones. Part 4. Synthesis of functionalised hydrophenanthrene and benzocyclodecenone derivatives *via* novel fragmentation reactions, and X-ray structural analyses of two angularly substituted hydrophenanthrene derivatives, 505-14

The selective oxidation of protected cholestanol derivatives using the Gif system, 583-6

Neighbouring group participation in the allylic oxidation of a Δ^5 -steroid, 647-50

Intramolecular reactions of *N*-nitrenes: oxidation of 3-amino-2-(2,4-dimethoxyphenylbutyl)quinazolin-4(3*H*)-ones, 825-30

Anodic acetamidodisulphenylation of alkenes *via* anodic oxidation of disulphides, 1033-8

Additions to alkenes *via* metal ion-promoted oxidation of dialkyl and diaryl disulphides, 1039-44

Additions to alkenes *via* metal ion-promoted oxidation of 2,2'-dipyridyl disulphide and bis-(2-aminophenyl) disulphide, 1045-8

Radical-cations as intermediates in the oxidation of alkenes by metal ions, 1087-94

Benzenesulphenanilidyl radicals. Part 3. Reactions of 4'-substituted benzenesulphenanilides with *t*-butoxyl radicals, 1577-82

Oxidation of 2,4-dinitrobenzenesulphenamide in the presence of 2,3,4,5-tetrahydropyrrrole, 1967-70

Oxidation of the dioximes of 1,3-diketones with lead tetra-acetate, 2083-6

Functionalisation of saturated hydrocarbons. Part 3. The oxidation of 3 β ,5 α ,6 β -triacetoxycholestane using the Gif system, 2109-18

A further synthesis of the corticosteroid side chain starting with a suitable 17-ketone, 2191-2

OXIDOPYRYLIUM

Total synthesis of (\pm)- β -bulnesene *via* intramolecular cycloaddition of a 2-substituted 3-oxidopyrylium, 1725-30

OXIME

Oxidation of the dioximes of 1,3-diketones with lead tetra-acetate, 2083-6

OXIME ETHER

Asymmetric synthesis using chirally modified borohydrides. Part 3. Enantioselective reduction of ketones and oxime ethers with reagents prepared from borane and chiral amino alcohols, 2039-44

OXIRANE

Reaction of 3-phenylglycidic esters. Part 2. Stereo- and regioselectivity in the oxirane ring opening of methyl *trans*-3-(4-methoxyphenyl)glycidate with various thiophenols and the effects of solvent and temperature, 421-8

Synthesis of 1,3-diol derivatives from sterically overcrowded oxiranes. Ring-opening reactions of 1-*t*-butyl-1,2-epoxycyclohexane, 1607-16

OXOCANE

Silicon-mediated annulation. Part 1. A synthesis of tetrahydropyran-4-one, oxepan-4-ones, and oxocan-4-ones *via* intramolecular directed aldol reactions, 2093-100

OXONIUM ION

A stereochemical test for ether-oxygen participation and oxonium ion formation in the acetolysis of 3-tetrahydropyranyl brosylate, 1323-6

OXYGEN-ATOM PARTICIPATION

A stereochemical test for ether-oxygen participation and oxonium

ion formation in the acetolysis of 3-tetrahydropyranyl brosylate, 1323-6

OXYGEN CARRIER MODEL

Both-faces hindered porphyrins. Part 2. Synthesis and characterization of internally five-co-ordinated iron(II) basket-handle porphyrins derived from 5,10,15,20-tetrakis(*o*-hydroxyphenyl)porphyrin, 61-70

Both-faces hindered porphyrins. Part 3. Synthesis and characterization of internally five-co-ordinated iron(II) basket-handle porphyrins derived from 5,10,15,20-tetrakis(*o*-aminophenyl)porphyrin, 221-32

OXYGEN LABELLING

Photo-induced transformations. Part 79. On the mechanism of the formation of oxa steroids *via* photo- and thermally-induced rearrangement of 3-hydroxy- Δ^5 -steroid hypoidites in the presence of mercury(II) oxide and iodine. An oxygen-18 labelling study, 1431-6

OXYTOCIN

Peptide synthesis. Part 6. Protection of the sulphhydryl group of cysteine in solid-phase synthesis using N_α -fluorenylmethoxycarbonylamino acids. Linear oxytocin derivatives, 2057-64

PALLADIUM

Ovine III-thrift in Nova Scotia. Part 10. Palladium and rhodium complexes as reagents in the investigation of isocyanide metabolites of *Trichoderma hamatum*, 441-6

PALLADIUM CATALYST

A general approach to the synthesis of mono-olefinic insect sex pheromones of *Z*- or *E*-configuration, 1115-20

PALLADIUM-INDUCED REARRANGEMENT

Cardiotonic steroids. Part 10. Synthesis of digitoxigenin from 3 β -acetoxyandrost-5-en-17-one involving palladium-induced rearrangement of an allylic epoxide, 1601-6

PALMATINE

Syntheses of (\pm)-tetrahydropalmatine and spirobenzylisoquinolines by thermolysis of benzocyclobutene derivatives, 2151-4

PANICULIDE

Synthesis of paniculides B and C, 1509-16

PENAM SULPHONE

Substituted penicillanic acid 1,1-dioxides as β -lactam inhibitors: studies on 6-benzylidene- and hydroxybenzylpenam sulphones, 963-8

PENICILLANIC ACID

Substituted penicillanic acid 1,1-dioxides as β -lactam inhibitors: studies on 6-benzylidene- and hydroxybenzylpenam sulphones, 963-8

PENICILLIN

Syntheses of β -lactams by ring contraction of isothiazolidinones, 153-8

PENICILLIUM CHARLESII

Ethylidenetetrone acid and its derivatives. Condensations with carbonyl compounds, leading to reassignment of ramigenic acid from *Penicillium charlesii*, 2393-8

PENTADIENE

Polarized ketene dithioacetals. Part 41. Studies on base-catalysed rearrangements of 1,1-bis(alkylthio)-2-arylpenta-1,4-dienes to novel 1,5-bis(alkylthio)-2-arylpenta-1,3-dienes *via* a 1,5-alkylthio shift, 641-6

PENTAKETIDE

Structures of the cephalosporolides B-F, a group of C_{10} lactones from *Cephalosporium aphidicola*, 843-8

PEPTIDE

The solution structure of [Ala⁴]-desdimethylchlamydocin: a ¹H n.m.r. relaxation study, 245-50

Application of diphenylphosphinic carboxylic mixed anhydrides to peptide synthesis, 461-70

Synthesis, resolution, and assignment of configuration of potent hypotensive retro-inverso bradykinin potentiating peptide 5a(BPP_{5a}) analogues, 697-702

Synthesis of sequential polypeptides containing L-isoleucine for assignment of the far-i.r. band characteristic of isoleucyl in a peptide α -helix, 765-8

Renin substrates. Part 1. Liquid-phase synthesis of the equine sequence with benzotriazolylxytris(dimethylamino)phosphonium hexafluorophosphate (BOP), 1025-32

Evaluation of phosphinic acid derivatives as reagents for amine protection in peptide synthesis, 1217-26

A kinetic study of phosphinic carboxylic mixed anhydrides, 1617-22

PEPTIDE (contd)

- Peptide synthesis. Part 6. Protection of the sulphhydryl group of cysteine in solid-phase synthesis using *N*-fluorenylmethoxycarbonylamino acids. Linear oxytocin derivatives, 2057–64
- Peptide synthesis. Part 7. Solid-phase synthesis of conotoxin G1, 2065–74
- On the double bond isostere of the peptide bond: preparation of modified di- and tri-peptides incorporating proline and alanine analogues, 2299–306
- Structural studies on cyanoginosins-LR, -YR, -YA, and -YM, peptide toxins from *Microcystis aeruginosa*, 2747–8

PEPTIDE SYNTHESIS

- Amino acids and peptides. Part 49. 2-Amino-4-(3-pyridyl)butyric acid and related peptides, 1767–72

PERBENZOIC ACID

- m*-Chloroperbenzoic acid oxidation of dioxins and dihydrodioxins, 457–60

- Oxidation of alkyl phenyl selenides, tellurides, and telluroxides with *meta*-chloroperbenzoic acid for a facile and novel transformation of C–Se and C–Te bonds to C–O bonds, 471–80

PERYLENEQUINONE

- Secondary mould metabolites. Part 13. Fungal perylenequinones: phleischrome, isophleischrome, and their endoperoxides, 1387–92

PETERSON OLEFINATION

- The chemistry of pseudomonic acid. Part 7. Stereochemical control in the preparation of C-2-substituted monic acid esters *via* the Peterson olefination, 541–8

- Preparation of vinylic sulphones by Peterson olefination using phenyl trimethylsilylmethyl sulphone, 1949–52

PHASE-TRANSFER GLYCOSYLATION

- Synthesis and hydrolytic stability of 4-substituted pyrazolo[3,4-*d*]pyrimidine 2'-deoxyribofuranosides, 2573–6

PHENANTHRENE

- Reactions of *o*-quinones with some bis-phosphonium salts in the presence of lithium ethoxide, 429–36

- Acid-catalysed intramolecular C-alkylation in β,γ -unsaturated diazomethyl ketones. Part 4. Synthesis of functionalised hydrophenanthrene and benzocyclodecenone derivatives *via* novel fragmentation reactions, and X-ray structural analyses of two angularly substituted hydrophenanthrene derivatives, 505–14

PHENANTHRIDINE

- Photocyclisation of enamides. Part 23. Reductive photocyclisation of enamides, 487–92

PHENANTHROPYRAN

- Reactions of *o*-quinones with some bis-phosphonium salts in the presence of lithium ethoxide, 429–36

PHENAZINE

- Acid-promoted decomposition of benzenesulphenanilides and *N*-aryl bis(benzenesulphen)amides, 2261–6

PHENOL

- Pentavalent organobismuth reagents. Part 2. The phenylation of phenols, 2657–66

PHENOLATE ION

- Tricyclic [10]annulenes. Part 5. Phenol–keto tautomerism in the 2- and 5-hydroxy derivatives of 7b-methyl-7bH-cyclopent[*cd*]indene, 383–90

PHENOTHIAZINE

- 1,2-Didehydrophenothiazines: preparation of 1-alkyl and 1-aryl-substituted phenothiazines by lithium-directed alkylation, 969–72

PHENYLALANINE

- The biosynthetic incorporation of [*phenyl*-³H]phenylalanine into gliotoxin, 1487–90

PHENYLATION

- Pentavalent organobismuth reagents. Part 2. The phenylation of phenols, 2657–66

- Pentavalent organobismuth reagents. Part 3. Phenylation of enols and of enolate and other anions, 2667–76

PHENYLNITRENIUM ION

- Addition of phenylnitrenium ion to olefins. Reactions of phenyl azide with some olefins in the presence of trifluoroacetic acid, 677–84

PHENYLTHIO KETONE

- A regioselective route to conjugated enones *via* α -phenylthio ketones, 1237–44

- Heterocycles by cycloaddition. Part 7. Cycloaddition reactions of mesoionic dithiolones with fulvenes, 1245–8

PHENYLTHIO MIGRATION

- Phenylthio migrations in rearrangements of 2,2-

- bisphenylthioethanols, 1055–66

PHEROMONE

- Unsaturated carbohydrates. Part 27. Synthesis of (–)-*exo*-brevicommin from a nona-3,8-dienulose derivative, 301–4

- A general approach to the synthesis of mono-olefinic insect sex pheromones of *Z*- or *E*-configuration, 1115–20

PHLOBAPHENE REACTION

- Synthesis of condensed tannins. Part 14. Biflavanoid profisetinidins as synthons. The acid-induced 'phlobaphene' reaction, 2521–8

PHOMOPSIS OBLONGA

- Metabolic products of *Phomopsis oblonga*. Part 1.

- 3a,5a,6,7,8,9,9a,9b-Octahydro-7,9b-dimethylnaphtho[1,2-*c*]furan-1(3*H*)-one (Oblongolide), 861–4

- Metabolic products of *Phomopsis oblonga*. Part 2. Phomopsolide A and B, tiglic esters of two 6-substituted 5,6-dihydro-5-hydroxypyran-2-ones, 865–70

PHOMOPSOLIDE

- Metabolic products of *Phomopsis oblonga*. Part 2. Phomopsolide A and B, tiglic esters of two 6-substituted 5,6-dihydro-5-hydroxypyran-2-ones, 865–70

PHOSPHINAMIDE

- Evaluation of phosphinic acid derivatives as reagents for amine protection in peptide synthesis, 1217–26

PHOSPHINE OXIDE

- The stereocontrolled Horner-Wittig reaction: synthesis of disubstituted alkenes, 2307–26

- Synthesis of single isomers (*E* or *Z*) of protected γ,δ -unsaturated ketones by the Horner-Wittig reaction, 2585–98

PHOSPHINIC CARBOXYLIC ANHYDRIDE

- A kinetic study of phosphinic carboxylic mixed anhydrides, 1617–22

PHOSPHINOYLHYDROXYLAMINE

- N*-[Aryl(phenyl)phosphinoyl]hydroxylamines: influence of substituents on the competitive migration of aryl and phenyl groups in the Lossen-like rearrangement of their *O*-methanesulphonyl derivatives, 1787–92

PHOSPHOLE

- Use of dibenzophosphole oxides in the Horner reaction: stereospecific formation of (*Z*)-stilbene from an *erythro*- β -hydroxyalkylphosphine oxide, 1953–6

PHOSPHONATE

- Trihalogenomethylsulphenylation of tetraisopropyl methylenebisphosphonates, 1935–40

PHOSPHONIUM

- Total synthesis of cyclopentanoid natural products, 2625–36

PHOSPHONIUM SALT

- Reactions of *o*-quinones with some bis-phosphonium salts in the presence of lithium ethoxide, 429–36

PHOSPHORAMIDATE

- Synthesis of some nucleoside cyclic phosphoramidates and related compounds *via* phosphoramidites, 199–202

PHOSPHORANE CYCLISATION

- Olivanic acid analogues. Part 3. Total synthesis of C(6 α)-methoxy-substituted 7-oxo-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylates, 2235–40

PHOSPHOROTHIOATES

- The synthesis of *O,O*-bistrimethylsilyl *S*-trihalogenomethyl phosphorothioates, 1419–24

PHOSPHOROYLHYDROXYLAMINE

- N*-Phosphono- and *N*-phosphoro-yl hydroxylamines: reactions of their *O*-sulphonyl derivatives with *t*-butylamine, 2651–6

- N*-Phosphono- and *N*-phosphoro-yl hydroxylamines: reactions of their *O*-sulphonyl derivatives with *t*-butylamine, 2651–6

PHOSPHORUS

- The preparation and properties of some chiral fluoromethylphosphonates, phosphonothioates, and phosphonamidothioates, 233–8

- Application of diphenylphosphinic carboxylic mixed anhydrides to peptide synthesis, 461–70

PHOTOCHEMISTRY

- Thermal and photochemical studies of symmetrical and unsymmetrical dihydro-1,3,4-selenadiazoles, 107–14

- Photo-induced transformations. Part 76. Ring expansion through a [2 + 2] photocycloaddition- β -scission sequence; the photorearrangement of *endo*-4-cyanotricyclo[6.4.0.0^{2,5}]dodeca-1(12),6,8,10-tetraen-5-yl hypoidite to 4-cyanotricyclo[6.4.0.0^{2,4}]dodeca-1(12),6,8,10-tetraen-5-one. ² X-Ray crystal structure of 4-cyanotricyclo[6.4.0.0^{2,4}]dodeca-1(12),6,8,10-tetraen-5-one, 327–30

PHOTOCHEMISTRY (contd)

Some bifunctional acylsilanes and their photochemical reactions, 409–14

The photochemistry of ketones derived from carbohydrates. Part 10. A study of stereochemical influences on photo-induced rearrangements and ring expansions of 3-oxacyclopentanones using 1,2-*O*-isopropylidene-furanos-3-*ulose* derivatives, 575–82

N-Alkylation of some secondary styryl enamides, 831–6

Dynamic stereochemistry of imines and derivatives. Part 18.

Photosynthesis and photoracemization of optically active oxaziridines, 849–56

Photochemical synthesis of 3- and 5-aryl-2-furyl derivatives, 1285–8

Photo-induced transformations. Part 79. On the mechanism of the formation of oxa steroids *via* photo- and thermally-induced rearrangement of 3-hydroxy- Δ^5 -steroid hypoidites in the presence of mercury(II) oxide and iodine. An oxygen-18 labelling study, 1431–6

Redox-photosensitized reactions. Part 12. Effects of magnesium(II) ion on the [Ru(bpy)₃]²⁺-photomediated reduction of olefins by 1-benzyl-1,4-dihydropyridinamide: metal-ion catalysis of electron transfer processes involving an NADH model, 1527–32

Photochemistry of *N*-alk-4-enyl- and *N*-alk-5-enyl-phthalimides: two different types of cyclization reaction, 2025–32

Light-induced synthesis of 3-alkyltropones, 2283–8

Photochemical bromination of methyl (*E*)-2-methylbut-2-enoate with *N*-bromosuccinimide: formation of 4-bromo-2-methylbut-2-en-4-olide, 2353–60

PHOTOCHROMISM

Photochromic heterocyclic fulgides. Part 4. The thermal and photochemical reactions of (*E*)-isopropylidene-[α -(2- and -(3-thienyl)ethylidene)succinic anhydrides and related compounds, 957–62

PHOTOCYCLISATION

Biphenylenes. Part 33. Synthesis of bisbenzo[3,4]cyclobuta[1,2-*b*;1',2'-*h*]- and bisbenzo[3,4]cyclobuta[1,2-*c*;1',2'-*g*]-phenanthrene, and attempts to prepare planar derivatives of cyclo-octatetraene, 115–20

Photocyclisation of enamides. Part 24. Total synthesis of (\pm)-isofumigaclavine B and (\pm)-lysergic acid, 941–8

Photochromic heterocyclic fulgides. Part 4. The thermal and photochemical reactions of (*E*)-isopropylidene-[α -(2- and -(3-thienyl)ethylidene)succinic anhydrides and related compounds, 957–62

A photochemical route to the protoberberine skeleton, 1177–80

PHOTOCYCLIZATION

Photocyclization of *N*-(dialkylaminoalkyl) aromatic 1,2-dicarboximides. *X*-Ray molecular structure of a stereoisomer of 4-benzyl-2-hydroxy-3-phenyl-4,6-diazatricyclo[6.4.0.0^{2,6}]dodeca-1(12),8,10-trien-7-one, 121–30

Photocyclisation of enamides. Part 23. Reductive photocyclisation of enamides, 487–92

PHOTOCYCLOADDITION

Photochemical cycloaddition of thiocarbonyl compounds to diphenylketene and a related ketenimine, 1957–60

PHOTOISOMERISATION

Photochromic heterocyclic fulgides. Part 4. The thermal and photochemical reactions of (*E*)-isopropylidene-[α -(2- and -(3-thienyl)ethylidene)succinic anhydrides and related compounds, 957–62

PHOTOLYSIS

Photolysis of 1,2,3-selenadiazole. Formation of selenirene by secondary photolysis of selenoketene, 907–12

3*H*-Azepines and related systems. Part 3. Mono- and bis-2-alkoxy-3*H*-azepine-3-carboxylates and -3-carboxamides by photolysis of mono- and di-*o*-azidobenzoyl derivatives of glycols and diamines. Some acyclic crown ether analogues, 1121–6

Formation, dealkylation, and nucleophilic substitution of some mono- and di-alkoxy-pyridoazepines, 1911–6

Generation and rearrangement of 4*aH*-carbazoles, 2725–32

Preparation and rearrangement of 6*a*-methyl-6*aH*-benzo[*a*]-carbazole and 11*b*-methyl-11*bH*-benzo[*c*]carbazole, 2733–40

PHOTO-OXYGENATION

Photo-oxygenation of *N*-unsubstituted pyrazin-2-ones and alkoxy-pyrazines, 2497–500

PHOTOREARRANGEMENT

Photochromic heterocyclic fulgides. Part 4. The thermal and photochemical reactions of (*E*)-isopropylidene-[α -(2- and -(3-thienyl)ethylidene)succinic anhydrides and related compounds, 957–62

PHOTOREDUCTION

Reduction of imines using NADH models, 437–40

PHOTOSYNTHESIS

Pyromellitimide-bridged porphyrins as model photosynthetic systems. 1. Synthesis and steady state fluorescence properties, 2435–8

PHTHALIDYL ESTER

Olivanic acid analogues. Part 3. Total synthesis of C(6 α)-methoxy-substituted 7-oxo-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylates, 2235–40

PHTHALIMIDE

Photocyclization of *N*-(dialkylaminoalkyl) aromatic 1,2-dicarboximides. *X*-Ray molecular structure of a stereoisomer of 4-benzyl-2-hydroxy-3-phenyl-4,6-diazatricyclo[6.4.0.0^{2,6}]dodeca-1(12),8,10-trien-7-one, 121–30

A photochemical route to the protoberberine skeleton, 1177–80

Photochemistry of *N*-alk-4-enyl- and *N*-alk-5-enyl-phthalimides: two different types of cyclization reaction, 2025–32

PHYSALIS PUBESCENCE

Pubescenol, a new withanolide from *Physalis pubescence*, 419–20

PHYSALIS PUBESCENS

Physapubenolide and pubescenin, two new ergostane-type steroids from *Physalis pubescens* L. (Solanaceae), 2241–6

PHYSAPUBENOLIDE

Physapubenolide and pubescenin, two new ergostane-type steroids from *Physalis pubescens* L. (Solanaceae), 2241–6

PICOLYL ESTER

Amino acids and peptides. Part 49. 2-Amino-4-(3-pyridyl)butyric acid and related peptides, 1767–72

PINSELIN

The chemistry of fungi. Part 80. The *X*-ray crystallographic structure of 8 α -bromo-5 α ,5,6,7,8,8 α -hexahydro-1,7 α -dihydroxy-8 α -methoxycarbonylxanthone monohydrate, a rearrangement product of methyl 2 α -bromo-2 β -(2,6-dimethoxybenzoyl)-7-oxabicyclo[2.2.1]heptane-3 β -carboxylate: a novel route to xanthones: the synthesis of pinselin, 1343–8

PIPERAZINE

Structure and biosynthesis of bipolaramide, a novel dioxopiperazine from *Bipolaris sorokiniana*, 2489–92

PLATINUM

Platinum complexes in organic synthesis: catalytic *ortho*-alkenylation of anilines, 1095–8

POLYAMINE MACROCYCLE

Proton-assisted transport of amino acid and related polycarboxylate anions *via* polyammonium macrocycles, 615–20

POLY(DIMETHYLACRYLAMIDE)

Peptide synthesis. Part 7. Solid-phase synthesis of conotoxin G1, 2065–74

POLYKETIDE

Chiral synthesis of polyketide-derived natural products. Part 3. Stereocontrolled synthesis of a chiral fragment corresponding to both the C-1—C-4 and C-9—C-12 units of erythromycin A from *D*-glucose, 1–6

Chiral synthesis of polyketide-derived natural products. Part 4. Synthesis of a left-hand segment with six consecutive chiral centres of dihydroerythronolide A for the total synthesis of erythromycin A from *D*-glucose, 7–18

Chiral synthesis of polyketide-derived natural products. Part 5. Synthesis of a chiral segment corresponding to the C-1—C-5 unit of erythromycin A from *D*-glucose, 19–26

Chiral synthesis of polyketide-derived natural products. Part 6. Chemical correlation of chiral synthons, derived from *D*-glucose for the synthesis of erythromycin A, with chemical cleavage products of the natural antibiotic, 27–34

POLYMER-SUPPORTED ALKOXIDE

Polymer supported alkoxides: synthesis and reactivity, 1257–60

POLYMER-SUPPORTED REAGENT

A new approach to (\pm)-2-amino-2-deoxytetritol derivatives, 935–40

Michael additions catalysed by cinchona alkaloids bound *via* their vinyl groups to preformed crosslinked polymers, 2327–32

Asymmetric synthesis using chirally modified borohydrides. Part 4. Enantioselective reduction of ketones and oxime ethers with the reagent prepared from borane and polymer-supported (*S*)-(-)-2-amino-3-(*p*-hydroxyphenyl)-1,1-diphenylpropan-1-ol, 2615–20

POLYPHENOL

Balanocarpol, a new polyphenol from *Balanocarpus zeylanicus* (Trimen) and *Hopea jucunda* (Thw.) (Dipterocarpaceae), 1807–10

The differentiation of π - and τ -derivatised histidines, 1811–6

POLYSACCHARIDE

Structure of the capsular polysaccharide from *Streptococcus pneumoniae* type 9, 1665–74
Nuclear magnetic resonance studies of 1,6-linked disaccharides, 2383–8

PORIFERASTEROL

Mechanism of the transmethylation reaction by *S*-adenosylmethionine: stereochemistry of hydride migration from C-24 to C-25 in the biosynthesis of poriferasterol in the crysophyte *Ochromonas malhamensis*, 521–4

PORPHYRIN

Both-faces hindered porphyrins. Part 2. Synthesis and characterization of internally five-co-ordinated iron(II) basket-handle porphyrins derived from 5,10,15,20-tetrakis(*o*-hydroxyphenyl)porphyrin, 61–70
Isolation, crystallisation, and synthesis of the dimethyl ester of porphyrin *a*, the iron-free prosthetic group of cytochrome *c* oxidase, 135–44
Both-faces hindered porphyrins. Part 3. Synthesis and characterization of internally five-co-ordinated iron(II) basket-handle porphyrins derived from 5,10,15,20-tetrakis(*o*-aminophenyl)porphyrin, 221–32
Biosynthesis of porphyrins and related macrocycles. Part 25. Synthesis of analogues of coproporphyrinogen-III and studies of their interaction with coproporphyrinogen-III oxidase from *Euglena gracilis*, 1699–710
Pyromellitimide-bridged porphyrins as model photosynthetic systems. 1. Synthesis and steady state fluorescence properties, 2435–8

POTASSIUM

sp²-Hybridized β-substituted organo-lithium, -sodium, and -potassium dianions; preparation, stability, and reactivity, 447–52

PREGNANE

Stereoselective synthesis of the 20-hydroxyecdysone side chain, 557–60
An efficient and short degradation of the cholic acid side chain: a new method for the preparation and dehydrogenation of 4,5-dihydro-oxazoles, 1865–70

PROCYANIDIN

Synthesis of condensed tannins. Part 13. The first 2,3-*trans*-3,4-*cis*-procyanidins: sequence of units in a 'trimer' of mixed stereochemistry, 669–76

PROFISSETINIDIN

Synthesis of condensed tannins. Part 15. Structure of natural 'angular' profisetinidin tetraflavanoids: asymmetric induction during oligomeric synthesis, 2529–36
Synthesis of condensed tannins. Part 16. Stereochemical differentiation of the first 'angular' (2*S*,3*R*)-profisetinidin tetraflavanoids from *Rhus lancea* (karree) and the varying dynamic behaviour of their derivatives, 2537–44

PROLINE

Diastereoselective reduction of chiral α-ketoamides derived from (*S*)-proline esters with sodium borohydride. Preparation of optically active α-hydroxy acids, 769–72

PROPENONE

Synthesis of heterocyclic compounds. Part 46. The reactions of malonamide and 2-cyanoacetamide with substituted propenones, 1681–6

PROSTAGLANDIN

Prostaglandins: a novel synthesis of ± -PGF_{1α} via cyclopentane-1,3-dione derivatives, 203–6
Functionalised carbocycles from carbohydrates. Part 7. A route to carbacyclin from a D-glucose derivative. X-Ray crystal structure of 3-*endo*-benzoyloxy-2-*exo*-(1,3-diphenyl-1,3,2-diazaphospholan-2-yloxymethyl)-6-oxobicyclo[3.3.0]-octane, 295–300
Synthesis of 12,13-didehydroprostaglandin J₂ methyl ester, 1803–6

PROSTANOID

Convergent syntheses of 9-deoxy-12-phenylthioprostanoids and 9-deoxy-Δ⁸⁽¹²⁾-PGD, derivatives, 145–52

PROTECTING GROUP

Chiral synthesis of polyketide-derived natural products. Part 3. Stereocontrolled synthesis of a chiral fragment corresponding to both the C-1—C-4 and C-9—C-12 units of erythromycin A from D-glucose, 1–6
Chiral synthesis of polyketide-derived natural products. Part 4. Synthesis of a left-hand segment with six consecutive chiral centres of dihydroerythronolide A for the total synthesis of erythromycin A from D-glucose, 7–18

Chiral synthesis of polyketide-derived natural products. Part 5. Synthesis of a chiral segment corresponding to the C-1—C-5 unit of erythromycin A from D-glucose, 19–26

Chiral synthesis of polyketide-derived natural products. Part 6. Chemical correlation of chiral synthons, derived from D-glucose for the synthesis of erythromycin A, with chemical cleavage products of the natural antibiotic, 27–34

PROTOBERBERINE

A photochemical route to the protoberberine skeleton, 1177–80

PSEUDOCYPHELLARIA RUBELLA

Lichens and fungi. Part 17. The synthesis and absolute configuration at C-20 of the (*R*)- and (*S*)-epimers of some 29-substituted lupane derivatives and of some 30-norlupan-20-ol derivatives and the crystal structure of (20*R*)-3β-acetoxylupan-29-ol, 2051–6

PSEUDOMONIC ACID

The chemistry of pseudomonic acid. Part 7. Stereochemical control in the preparation of C-2-substituted monic acid esters *via* the Peterson olefination, 541–8

The chemistry of pseudomonic acid. Part 8. Electrophilic substitutions at C-2 and C-15 of the pseudomonic acid nucleus by means of lithium dienolates, 549–56

PSEUDO-SUGAR

Total synthesis of (+)-(1,2,3/4,5)-2,3,4,5-tetrahydroxycyclohexane-1-methanol and (+)-(1,3/2,4,5)-5-amino-2,3,4-trihydroxycyclohexane-1-methanol [(+)-validamine]. X-Ray crystal structure of (3*S*)-(+) -2-*exo*-bromo-4,8-dioxatricyclo[4.2.1.0^{3,7}]nonan-5-one, 903–6

PTELEDIMERINE

Quinoline alkaloids. Part 24. Dimerization of *N*-methylfindersine, 197–8

PTERIDINE

Specific inhibitors in vitamin biosynthesis. Part 7. Syntheses of blocked 7,8-dihydropteridines *via* α-amino ketones, 1645–60
Specific inhibitors in vitamin biosynthesis. Part 9. Reactions of 7,7-dialkyl-7,8-dihydropteridines of use in the synthesis of potential inhibitors of tetrahydrofolate biosynthesis, 2145–50

PTERIN

Specific inhibitors in vitamin biosynthesis. Part 8. Syntheses of some functionalised 7,7-dialkyl-7,8-dihydropterins 2133–44

PUBESCENIN

Physapubenolide and pubescenin, two new ergostane-type steroids from *Physalis pubescens* L. (Solanaceae), 2241–6

PUBESCENOL

Pubescenol, a new withanolide from *Physalis pubescens*, 419–20

PULVINONE

Synthesis of (*E*)- and (*Z*)-pulvinones, 1567–76

PUMMERER REACTION

One-step synthesis of the erythrinane skeleton by acid-promoted double cyclization of *N*-(cyclohex-1-enyl)-*N*-[2-(3,4-dimethoxyphenyl)ethyl]-α-(methylsulphonyl)acetamide and its derivatives, 605–10

PURINE

Purines, pyrimidines, and imidazoles. Part 61. Reaction of 6-alkylamino-4-chloro-5-nitropyrimidines with diethyl malonate, ethyl cyanoacetate, and ethyl acetoacetate and some derived pyrrolo[3,2-*d*]pyrimidines related to the cytokinins, 187–90
Systematic general synthesis of purine 8,5'-imino and substituted imino cyclonucleosides, 2337–46
Synthesis and properties of some hydrazo- and oxamido-bridged purine nucleosides, 2347–52

PUTRESCINE

Pyrrolizidine alkaloid biosynthesis. Synthesis of ¹³C-labelled putrescines and their incorporation into retronecine, 101–6

PYRAN

Metabolic products of *Phomopsis oblonga*. Part 2. Phomopsolide A and B, tiglic esters of two 6-substituted 5,6-dihydro-5-hydroxypyran-2-ones, 865–70
β-Halogeno ether synthesis of olefinic alcohols: stereochemistry and conformation of 2-substituted 3-halogenotetrahydro-pyran and -furan precursors, 1971–82
β-Halogeno-ether synthesis of olefinic alcohols: stereochemistry of the ring-scission of 2-substituted 3-halogenotetrahydro-pyrans and -furans, 1983–96
Silicon-mediated annulation. Part 1. A synthesis of tetrahydropyran-4-one, oxepan-4-ones, and oxocan-4-ones *via* intramolecular directed aldol reactions, 2093–100
Ring transformation of isoxazoles into furan and pyran derivatives, 2581–4

PYRAN (contd)

Stereoselective addition of benzonitrile oxide and *N*-benzyl-*C*-phenylnitron to (5*R*,6*SR*)-5,6-dihydro-6-ethyl-5-methylpyran-2(2*H*)-one. Crystal structure of (1*RS*,4*RS*,5*RS*,6*RS*,9*SR*)-8-benzyl-1,5-dimethyl-4-ethyl-9-phenyl-3,7-dioxo-8-azabicyclo[4.3.0]nonan-2-one, 2763–8

PYRAN ANION

New synthetic routes to spiroacetals. The 3,4-dihydro-2*H*-pyran approach to (±)-talaromycin B, 1879–84

PYRANOBENZOPYRAN

Studies on the synthesis of heterocyclic compounds containing benzopyrone. Part 4. Synthesis of 4,10-dihydro-3-hydroxy-3-methyl-1*H*,3*H*-pyrano[4,3-*b*][1]benzopyran-10-one, the basic skeleton in fulvic acid, 183–6

PYRANOINDOLE

Diels–Alder reactivity of pyrano[3,4-*b*]indol-3-ones, stable analogues of indole-2,3-quinodimethanes, 2505–8

PYRANOPYRROLE

The preparation and rearrangements of 5-acyl-2-phenyl-4-substituted 6*H*-1,3-thiazines. *X*-Ray molecular structure of 3-acetyl-2-ethoxycarbonyl-4-(3-oxobutylthio)-5-phenylpyrrole, 1875–8

PYRANOQUINOLINE

Quinoline alkaloids. Part 24. Dimerization of *N*-methylflindersine, 197–8

PYRAZINE

Photo-oxygenation of *N*-unsubstituted pyrazin-2-ones and alkoxy-pyrazines, 2497–500

PYRAZOFURIN ANALOGUE

C-Nucleoside studies. Part 18. The synthesis of *C*-nucleoside analogues of the antiviral agent (5*S*)-9-(2,3-dihydroxypropyl)adenine, 1425–30

PYRAZOLE

Azo dienophiles. Diels–Alder reactions of 4-phenyl-1,2,4-triazole-3,5-dione and 5-phenylpyrazol-3-one with functionalised dienes, 71–4

Reactions of glyoxals with hydrazones: a new route to 4-hydroxypyrazoles, 81–6

Synthesis and stereochemistry of substituted bi- and tricyclic 4,5-dihydro-pyrazoles, 481–6

Pyrimidines. Part 53. Novel ring transformation induced by the substituent effect of the phenyl group. Reaction of 5-bromo-6-methyl-1-phenyluracil derivatives with amines and hydrazine to give hydantoins and pyrazolones, 1137–42

C-Nucleoside studies. Part 18. The synthesis of *C*-nucleoside analogues of the antiviral agent (5*S*)-9-(2,3-dihydroxypropyl)adenine, 1425–30

Oxidation of the dioximes of 1,3-diketones with lead tetra-acetate, 203–6

1,3-Dipolar cycloadditions with alkynyl phenyl sulphones, 2621–4

PYRAZOLOPYRIDINE

Synthesis of peri-fused indolizines and azaindolizines by intramolecular 1,3-dipolar cycloaddition of 3-(phenylpropynoxyalkyl)pyridine *N*-ylides, 379–82

PYRAZOLOPYRIMIDINE

The syntheses of acycloformycins and 5-amino-3-(2-hydroxyethoxy)methylpyrazolo[4,3-*d*]pyrimidin-7(6*H*)-one, an analogue of the antiviral acycloguanosine, 2087–92

Synthesis and hydrolytic stability of 4-substituted pyrazolo[3,4-*d*]pyrimidine 2'-deoxyribofuranosides, 2573–6

PYRAZOLOTRIAZINE

Activated nitriles in heterocyclic synthesis: reaction of cyanogen bromide with some functionally substituted enamines, 1499–502

PYRETHRIN

Biosynthesis of the pyrethrins: unsaturated fatty acids and the origins of the retrolone segment, 1393–400

PYRIDAZINONE

Preparation and some reactions of 4- and 5-aryl-4,5-dihydropyridazin-3(2*H*)-ones, 1627–36

PYRIDINE

Applications of organolithium and related reagents in synthesis. Part 3. A general study of the reaction of lithium alkyls with pyridine ketones, 213–20

Synthesis of peri-fused indolizines and azaindolizines by intramolecular 1,3-dipolar cycloaddition of 3-(phenylpropynoxyalkyl)pyridine *N*-ylides, 379–82

Reduction of imines using NADH models, 437–40

Reactions of formylchromone derivatives. Part 5. Transformations of 3-formylchromones into pyrroles and pyridines, 1747–56

Isolation, structure, and synthesis of hermidin, a chromogen from *Mercurialis perennis* L., 1757–66

Functionalisation of saturated hydrocarbons. Part 3. The oxidation of 3β,5α,6β-triacetoxycholestane using the Gif system, 2109–18

S_N2' Type substitution reactions of 1-diphenylamino- and 1-carbazol-9-yl-pyridinium cations, 2155–8

Triazolopyridines. Part 6. Ring opening reactions of triazolopyridines, 2719–24

Acid-catalysed rearrangement of 3-acyl-6-alkoxy-5,6-dihydro-4*H*-1,2-oxazines: a route to 3-alkoxy-pyridine 1-oxides, 2769–74

PYRIDINIUM

Cyclising nucleophilic addition to azinium systems. Part 1. Reaction of 3-indol-2-ylpyridine, 3-indol-2-ylquinoline, 4-indol-2-ylisoquinoline and pyrido[3,4-*a*]carbazoles with acetic anhydride, 1503–8

Nucleophilic displacements of *N*-aryl and heteroaryl groups. Part 6. The rearrangement of 1-aryl-5,6,7,8-tetrahydro-8-oximino-2,6-diphenylquinolinium cations, 2159–66

PYRIDINIUM BETAINE

Some novel reactions of pyridinium-2-carboxylate betaines, 2167–72

PYRIDOAZEPINE

Formation, dealkylation, and nucleophilic substitution of some mono- and di-alkoxy-pyridoazepines, 1911–6

PYRIDOBENZOXAZEPINE

Compounds with bridgehead nitrogen. Part 49. The synthesis and stereochemistry of perhydropyrido[3,2,1-*j,k*][3,1]benzoxazepines and of *r*-3*a*,*t*-11*a*,*c*-14*a*,*t*-14*b*,*t*-22*a*,*t*-22*b*-perhydrodiquino[1,8*a*,8-*c,d*:1',8*a'*,8'-*j,k*][1,8,3,10]dioxadiazacyclotetradecine, 913–8

PYRIDOCARBAZOLE

Cyclising nucleophilic addition to azinium systems. Part 1. Reaction of 3-indol-2-ylpyridine, 3-indol-2-ylquinoline, 4-indol-2-ylisoquinoline and pyrido[3,4-*a*]carbazoles with acetic anhydride, 1503–8

PYRIDONE

Synthesis of heterocyclic compounds. Part 46. The reactions of malonamide and 2-cyanoacetamide with substituted propenones, 1681–6

PYRIDOPYRIMIDINE

Nitrogen bridgehead compounds, Part 49. Synthesis and stereochemistry of 9-aminotetrahydro-4*H*-pyrido[1,2-*a*]pyrimidin-4-ones., 1015–8

PYRIDYLSELENO

Pyridylseleno group in organic synthesis. Part 4. Oxy-selenation of olefins using pyridine-2-selenenyl bromide as a selenium reagent and its utilization in the synthesis of 2-pyridyl vinylic selenides,

PYRIMETHAMINE

Structural studies on bio-active compounds. Part 3. Re-examination of the hydrolysis of the antimalarial drug pyrimethamine and related derivatives and crystal structure of a hydrolysis product, 2267–76

PYRIMIDINE

Synthesis of isomeric 5-(phenylsulphonyl)pyrimidines, 87–92

Purines, pyrimidines, and imidazoles. Part 61. Reaction of 6-alkylamino-4-chloro-5-nitropyrimidines with diethyl malonate, ethyl cyanoacetate, and ethyl acetoacetate and some derived pyrrolo[3,2-*d*]pyrimidines related to the cytokinins, 187–90

Pyrimidines. Part 53. Novel ring transformation induced by the substituent effect of the phenyl group. Reaction of 5-bromo-6-methyl-1-phenyluracil derivatives with amines and hydrazine to give hydantoins and pyrazolones, 1137–42

Activated nitriles in heterocyclic synthesis: reaction of cyanogen bromide with some functionally substituted enamines, 1499–502

Oxidation of 2,4-dinitrobenzenesulphenamide in the presence of 2,3,4,5-tetraphenylpyrrole, 1967–70

Regioselectivity in the reactions of aryltri-isopropoxytitanium with pyrimidinones, 1997–2000

The biosynthesis of spermidine. Part 2: Preparation and study by ¹H n.m.r. spectroscopy of hexahydropyrimidines from spermidine and propane-1,3-diamines, 2011–6

Structural studies on bio-active compounds. Part 3. Re-examination of the hydrolysis of the antimalarial drug pyrimethamine and related derivatives and crystal structure of a hydrolysis product, 2267–76

PYROLYSIS

Electrophilic substitution of β,γ-unsaturated esters and ketones using phenyl vinyl sulphoxide as a vinyl cation synthon, 661–8

The synthesis and chemistry of 4-aza-azulene, 1793–802

Thermolysis of phenyl-substituted 1,2-dihydronaphthalenes.

PYROLYSIS (contd)

- Evidence for diphenylbutadienes as intermediates, 1819–28
 Pyrolyses of *o*-alkoxy- and *o*-alkylthio-*N*-allylanilines and of some related *O*- and *S*-allyl compounds, 1885–90
 Gas phase generation and reactions of *o*-dialkylaminobenzyl and *o*-dialkylaminophenoxy radicals, 1891–6
 Generation and rearrangement of 4a*H*-carbazoles, 2725–32

PYROMELLITIMIDE

- Pyromellitimide-bridged porphyrins as model photosynthetic systems. 1. Synthesis and steady state fluorescence properties, 2435–8

PYROPHOSPHATE

- A convenient method for the synthesis of *P*¹-(7-methylguanosine-5') *P*²-(ribonucleoside-5')diphosphates, 997–1000

PYRROLE

- High-pressure synthesis, structures, and conformational properties of some derivatives of 7-azabicyclo[2.2.1]heptane. *X*-Ray determination of *endo*-10-benzoyl-4-phenyl-4,10-diazatricyclo[5.2.1.0^{2,6}]dec-8-ene-3,5-dione and *exo*-10-acetyl-4-phenyl-4,10-diazatricyclo[5.2.1.0^{2,6}]decane-3,5-dione, 1277–84
 Addition and cycloaddition reactions of β -chloroazo-olefins, 1741–6
 Reactions of formylchromone derivatives. Part 5. Transformations of 3-formylchromones into pyrroles and pyridines, 1747–56
 The synthesis and chemistry of azolenines. Part 4. Preparation and rearrangement of some 3,5-diaryl-2*H*-pyrrole-2,2-dicarboxylic esters, 1773–80
 Oxidation of 2,4-dinitrobenzenesulphenamide in the presence of 2,3,4,5-tetraphenylpyrrole, 1967–70

PYRROLIDINE

- A new synthesis of (–)-anisomycin and its demethoxy analogue from *D*-ribose, 1463–70

PYRROLIZIDINE

- Pyrrrolizidine alkaloid biosynthesis. Synthesis of ¹³C-labelled putrescines and their incorporation into retronecine, 101–6
 Pyrrrolizidine alkaloid biosynthesis. Synthesis of ¹⁴C-labelled homospermidines and their incorporation into retronecine, 819–24
 Studies on pyrrrolizidines and related compounds. Part 8. A new route to perhydroazocines and related compounds using 1,2,3,5,6,7-hexahydropyrrrolizinylium perchlorate, 2611–4

PYRROLIZIDINE ALKALOIDS

- Pyrrrolizidine alkaloid analogues. Synthesis of ten-membered macrocyclic diesters of (+)-retronecine, 611–4
 Pyrrrolizidine alkaloid analogues. Synthesis of 11-membered macrocyclic diesters of (±)-synthancine A, 2475–8

PYRROLIZINYLIUM

- Studies on pyrrrolizidines and related compounds. Part 8. A new route to perhydroazocines and related compounds using 1,2,3,5,6,7-hexahydropyrrrolizinylium perchlorate, 2611–4

PYRROLOPYRIDAZINE

- Pyrrrole studies. Part 32. A novel ring-cleavage reaction of the pyridazine ring during the reaction of 6*H*-pyrrolo[3,4-*d*]pyridazines with dimethyl acetylenedicarboxylate, 899–902

PYRROLOPYRIMIDINE

- Purines, pyrimidines, and imidazoles. Part 61. Reaction of 6-alkylamino-4-chloro-5-nitropyrimidines with diethyl malonate, ethyl cyanoacetate, and ethyl acetoacetate and some derived pyrrolo[3,2-*d*]pyrimidines related to the cytokinins, 187–90

PYRROLYL SULPHIDE

- The preparation and rearrangements of 5-acyl-2-phenyl-4-substituted 6*H*-1,3-thiazines. *X*-Ray molecular structure of 3-acetyl-2-ethoxycarbonyl-4-(3-oxobutylthio)-5-phenylpyrrole, 1875–8

PYRYLIUM

- Total synthesis of (±)- β -bulnesene *via* intramolecular cycloaddition of a 2-substituted 3-oxidopyrylium, 1725–30
 Nucleophilic displacements of *N*-aryl and heteroaryl groups. Part 6. The rearrangement of 1-aryl-5,6,7,8-tetrahydro-8-oximino-2,6-diphenylquinolinium cations, 2159–66
 Some novel reactions of pyridinium-2-carboxylate betaines, 2167–72

QUERCUS STENOPHYLLA

- Tannins and related compounds. Part 26. Isolation and structures of stenophyllanins A, B, and C, novel tannins from *Quercus stenophylla*, 163–72

QUINAZOLINE

- Intramolecular reactions of *N*-nitrenes: oxidation of 3-amino-2-(2,4-dimethoxyphenylethyl)quinazolin-4(3*H*)-ones, 335–40

- Intramolecular reactions of *N*-nitrenes: oxidation of 3-amino-2-(2,4-dimethoxyphenylpropyl)quinazolin-4(3*H*)-one, 341–4
 Intramolecular reactions of *N*-nitrenes: oxidation of 3-amino-2-(2,4-dimethoxyphenylbutyl)quinazolin-4(3*H*)-ones, 825–30
 Stereochemical studies. Part 86. Saturated heterocycles. Part 81.

- Preparation of new thiouracils *via* retrodiene decomposition of methylene-bridged quinazolone thiones, 2483–8

- Rearrangement reactions of 1,3,6-triaryl-1,4-dihydro-*s*-tetrazines leading to 2,4-diarylquinazolines, 1-anilino-3,5-diaryl-1*H*-1,2,4-triazoles, 1,3,5-triaryl-1*H*-1,2,4-triazoles, and 2,5-diaryl-1*H*-1,3,4-oxadiazoles. *X*-Ray structure determination of 6-isopropyl-2,4-diphenylquinazoline, 2709–12

- Cyclisation of Schiff bases containing amide or hydroxamic acid groups to 1,2-dihydroquinazolin-4-ones; thermal decomposition reactions of the 1,2-dihydroquinazolin-4-ones, 2779–84

- Synthesis of cyclopropanes and dihydrofurans from α -chlorovinyl sulphones, 2785–8

QUINIZARIN

- Anthracyclinones. Part 3. Use of di-isopropylidene-*D*-glucose and a modified Marschalk reaction to introduce a tertiary carbinol function into ring *D* of anthracyclinones, 875–82

- Synthesis and reactions of 2,3-dihydro-oxazolo[2,3-*a*]isoindol-5(9*bH*)-ones, 1565–6

QUINODIMETHANE

- Benzo- and dibenzo[*a,e*]cyclo-octene synthesis *via* benzocyclobutene, 1407–12

QUINOLINE

- Microbiological transformations, Part 6. Microbiological transformations of acyl derivatives of indoline, 1,2,3,4-tetrahydroquinoline, 1,2,3,4-tetrahydroisoquinoline and 2,3,4,5-tetrahydro-1*H*-1-benzazepine with the fungus *Cunninghamella elegans*, 1381–6

- Formation, dealkylation, and nucleophilic substitution of some mono- and di-alkoxy-pyridoazepines, 1911–6

- 5,6,7,8-Tetrahydroquinolines. Part 6. Silylation *vs.* thioamidation in the reaction of silyl isothiocyanates with organometallics: influence of the solvent and of the substituents on silicon, 1917–20

- 5,6,7,8-Tetrahydroquinolines. Part 7. Synthesis of 8-cyano-5,6,7,8-tetrahydroquinolines; di-isopropylcyanamide, a new reagent for cyanation of organometallics, 2479–82

QUINOLINE ALKALOID

- Quinoline alkaloids. Part 24. Dimerization of *N*-methylflindersine, 197–8

QUINONE

- Reactions of *o*-quinones with some bis-phosphonium salts in the presence of lithium ethoxide, 429–36

- Synthesis and properties of acepleiadylene-5,6-dione and acepleiadylene-5,8-dione, 785–94

RADICAL

- Pyrolyses of *o*-alkoxy- and *o*-alkylthio-*N*-allylanilines and of some related *O*- and *S*-allyl compounds, 1885–90

- Gas phase generation and reactions of *o*-dialkylaminobenzyl and *o*-dialkylaminophenoxy radicals, 1891–6

RADICAL CATION

- Radical-cations as intermediates in the oxidation of alkenes by metal ions, 1087–94

RADICAL-HYDROGEN SHIFT

- Free radical chemistry. Part 3. Substituent effects in additions of ethers to fluorinated alkenes, 2209–14

RADIOCHEMISTRY

- Regiospecific incorporation of no-carrier-added radiobromine and radioiodine into aromatic rings *via* halogenodegerylation, 1687–92

- Regiospecific no-carrier-added radiobromination and radioiodination of aryltrimethyl group IVb organometallics, 1941–8

RAMIGENIC ACID

- Ethylidenetetronic acid and its derivatives. Condensations with carbonyl compounds, leading to reassignment of ramigenic acid from *Penicillium charlesii*, 2393–8

REDOX-PHOTOSENSITISATION

- Redox-photosensitised reactions. Part 12. Effects of magnesium(II) ion on the [Ru(bpy)₃]²⁺-photomediated reduction of olefins by 1-benzyl-1,4-dihydrocinotinamide: metal-ion catalysis of electron transfer processes involving a NADH model, 1527–32

REDUCTION

- Reduction of α -diazo- β -hydroxy esters to β -hydroxy esters: application in one of two convergent syntheses of a (22*S*)-22-

REDUCTION (contd)

- hydroxy bile acid from fish bile and its (2*R*)-epimer, 493–8
 Diastereoselective reduction of chiral α -ketoamides derived from (*S*)-proline esters with sodium borohydride. Preparation of optically active α -hydroxy acids, 769–72
 The reduction of tertiary *N*-styrylenamides, 1781–6
 Asymmetric synthesis using chirally modified borohydrides. Part 3. Enantioselective reduction of ketones and oxime ethers with reagents prepared from borane and chiral amino alcohols, 2039–44

REDUCTION OF KETONE

- Synthesis of single isomers (*E* or *Z*) of protected γ,δ -unsaturated ketones by the Horner–Wittig reaction, 2585–98

REDUCTIVE AMINATION

- Reduction of imines using NADH models, 437–40

REGIOSELECTIVITY

- Regioselective α - and β -metallations of thiophene derivatives bearing the 4,4-dimethylloxazolin-2-yl group. Application of the method to syntheses of 2,3- and 2,5-disubstituted thiophene derivatives, 173–82

REISSERT

- Formation and X-ray crystal structure of ethyl 2-amino-1-oxo-inden-3-carboxylate, 405–8

RENIN

- Renin substrates. Part 1. Liquid-phase synthesis of the equine sequence with benzotriazoloxyltris(dimethylamino)phosphonium hexafluorophosphate (BOP), 1025–32

RESVERATROL

- Polyphenols from dipterocarp species. Vaticaflin and ϵ -viniferin, 159–62

RETHROLONE

- Biosynthesis of the pyrethrins: unsaturated fatty acids and the origins of the rethrolone segment, 1393–400

RETRO-FRIES REARRANGEMENT

- Synthesis of a 4-acylcyclohexa-2,5-dienone: 3,4-dihydro-3,3,8a-trimethylnaphthalene-1,6(2*H*,8*aH*)-dione, 631–40

RETRONECIC ACID

- Necic acid synthons. Part 5. Total synthesis of (\pm)-retronecic acid and related compounds *via* zinc-mediated coupling of halogeno-esters, 2713–8

RETRONECINE

- Pyrrolizidine alkaloid biosynthesis. Synthesis of ^{13}C -labelled putrescines and their incorporation into retronecine, 101–6
 Pyrrolizidine alkaloid analogues. Synthesis of ten-membered macrocyclic diesters of (+)-retronecine, 611–4
 Pyrrolizidine alkaloid biosynthesis. Synthesis of ^{14}C -labelled homosperrmidines and their incorporation into retronecine, 819–24

RHODIUM

- Ovine III-thrift in Nova Scotia. Part 10. Palladium and rhodium complexes as reagents in the investigation of isocyanide metabolites of *Trichoderma hamatum*, 441–6

RHUS LANCEA

- Synthesis of condensed tannins. Part 16. Stereochemical differentiation of the first 'angular' (2*S*,3*R*)-profisetinidin tetraflavanoids from *Rhus lancea* (karree) and the varying dynamic behaviour of their derivatives, 2537–44

RIBOSE

- A new synthesis of (–)-anisomycin and its demethoxy analogue from D-ribose, 1463–70

RIFAMYCIN

- The derivation of carbon–proton internuclear distances in organic natural products from ^{13}C relaxation rates and nuclear Overhauser effects, 239–44

RING CLEAVAGE

- Pyrrrole studies. Part 32. A novel ring-cleavage reaction of the pyridazine ring during the reaction of 6*H*-pyrrolo[3,4-*d*]pyridazines with dimethyl acetylenedicarboxylate, 899–902

RING OPENING

- Reaction of 3-phenylglycidic esters. Part 2. Stereo- and regioselectivity in the oxirane ring opening of methyl *trans*-3-(4-methoxyphenyl)glycidate with various thiophenols and the effects of solvent and temperature, 421–8
 Synthesis of 1,3-diol derivatives from sterically overcrowded oxiranes. Ring-opening reactions of 1-*t*-butyl-1,2-epoxycyclohexane, 1607–16

RING SCISSION

- β -Halogeno ether synthesis of olefinic alcohols: stereochemistry and conformation of 2-substituted 3-halogenotetrahydro-pyran and

-furan precursors, 1971–82

- β -Halogeno-ether synthesis of olefinic alcohols: stereochemistry of the ring-scission of 2-substituted 3-halogenotetrahydro-pyrans and -furans, 1983–96

RING STRAIN

- Reactions involving fluoride ion. Part 31. Remarkable reactivity of perfluorobicyclobutylidene, 1191–4

RISTOCETIN

- ^1H N.m.r. studies of the structure of ristocetin A and of its complexes with bacterial cell wall analogues in aqueous solution, 949–56

RUBRANITROSE

- Branched-chain sugars. Part 17. A synthesis of L-rubranitrose (2,3,6-trideoxy-3-*C*-methyl-4-*O*-methyl-3-nitro-L-xylo-hexopyranose), 1067–72

- Branched-chain sugars. Part 18. Synthesis of D-rubranitrose (2,3,6-trideoxy-3-*C*-methyl-4-*O*-methyl-3-nitro-D-xylo-hexopyranose) and a derivative of D-kijanos (2,3,4,6-tetradeoxy-4-methoxycarbonylamino-3-methyl-3-nitro- α -D-xylo-hexopyranose), 1073–80

RUTHENIUM

- Redox-photosensitised reactions. Part 12. Effects of magnesium(II) ion on the $[\text{Ru}(\text{bpy})_3]^{2+}$ -photomediated reduction of olefins by 1-benzyl-1,4-dihydronicotinamide: metal-ion catalysis of electron transfer processes involving an NADH model, 1527–32

RUTHENIUM CATALYST

- A highly effective ligand-bound ruthenium catalyst for chemoselective degradation of aromatic rings to carboxylic acids, 2605–10

SAPONIN

- Starfish saponins. Part 17. Steroidal glycoside sulphates from the starfish *Ophidiaster ophidianus* (Lamarck) and *Hacelia attenuata* (Gray), 655–60

SCALARANE

- Synthesis of the key intermediate (\pm)-18,19-dinor-14 α H-cheilantha-12,15-dien-17-one and its transformation into the geochemical marker 18,19-dinor-13 β H,14 α H-cheilanthane and the marine-type sesterterpene methyl scalar-17-en-25-oate, 1227–32

SCHIFF BASE

- Cyclisation of Schiff bases containing amide or hydroxamic acid groups to 1,2-dihydroquinazolin-4-ones; thermal decomposition reactions of the 1,2-dihydroquinazolin-4-ones, 2779–84

- Synthesis of cyclopropanes and dihydrofurans from α -chlorovinyl sulphones, 2785–8

SELENADIAZOLE

- Thermal and photochemical studies of symmetrical and unsymmetrical dihydro-1,3,4-selenadiazoles, 107–14

- Photolysis of 1,2,3-selenadiazole. Formation of selenirene by secondary photolysis of selenoketene, 907–12

SELENIDE

- Pyridylseleno group in organic synthesis. Part 4. Oxyselenation of olefins using pyridine-2-selenenyl bromide as a selenium reagent and its utilization in the synthesis of 2-pyridyl vinylic selenides, 373–8

- Oxidation of alkyl phenyl selenides, tellurides, and telluroxides with *meta*-chloroperbenzoic acid for a facile and novel transformation of C–Se and C–Te bonds to C–O bonds, 471–80

SELENIDE OXIDATION-ELIMINATION

- 3*aH*-Indenes. Part 4. Formation and reactions of some dienone intermediates, 719–22

SELENIRENE

- Photolysis of 1,2,3-selenadiazole. Formation of selenirene by secondary photolysis of selenoketene, 907–12

SELENIUM

- Pyridylseleno group in organic synthesis. Part 4. Oxyselenation of olefins using pyridine-2-selenenyl bromide as a selenium reagent and its utilization in the synthesis of 2-pyridyl vinylic selenides, 373–8

- Methylation of adenosine and related nucleosides with trimethylselenium hydroxide, and regiospecific effects of copper(II) ions, 1327–30

- An efficient and short degradation of the cholic acid side chain: a new method for the preparation and dehydrogenation of 4,5-dihydro-oxazoles, 1865–70

SELENIUM REAGENT

- Reactions of α -diazo ketones with selenium-based reagents. A general synthesis of α -chloro-, α -bromo-, α -phenylseleno-, α -acetoxy-, and α -methoxy- $\alpha\beta$ -unsaturated ketones, 2193–200

SELENOKETENE

Photolysis of 1,2,3-selenadiazole. Formation of selenirene by secondary photolysis of selenoketene, 907–12

SENECIO ISATIDEUS

Pyrrrolizidine alkaloid biosynthesis. Synthesis of ^{13}C -labelled putrescines and their incorporation into retronecine, 101–6

SERINE

Chiral synthesis of 3-substituted morpholines *via* serine enantiomers and reductions of 5-oxomorpholine-3-carboxylates, 2577–80

SESQUITERPENE

Improved total synthesis of (\pm)-drimenin, 815–8

Total synthesis of (\pm)- β -bulnesene *via* intramolecular cycloaddition of a 2-substituted 3-oxodopyrylium, 1725–30

Stereoselective synthesis of (\pm)-ancistrofuran and its stereoisomers, 2463–8

1 α -Hydroxyalliolicolide, a sesquiterpenoid metabolite of *Marasmius alliaceus*. X-Ray molecular structure of 1 α -hydroxyalliolicolide, 2749–52

SESTERTERPENE

Synthesis of the key intermediate (\pm)-18,19-dinor-14 α H-cheilanthal-12,15-dien-17-one and its transformation into the geochemical marker 18,19-dinor-13 β H,14 α H-cheilanthalane and the marine-type sesterterpene methyl scalar-17-en-25-oate, 1227–32

SHIGELLA FLEXNERI

Strategies for the synthesis of branched oligosaccharides of the *Shigella flexneri* 5a, 5b, and variant X serogroups employing a multifunctional rhamnose precursor, 2251–60

SIGMATROPIC REARRANGEMENT

Cycloadducts of *C*-nitrosocarbonyl compounds and ergosteryl acetate; [3,3]sigmatropic rearrangements of *N*-aroyle-3,6-dihydro-1,2-oxazines, 887–92

Enamine chemistry. Part 29. Synthesis of adamantane derivatives from α,β -unsaturated acid chlorides and 4,4-disubstituted cyclohexanone enamines. Multiple [3,3] sigmatropic rearrangement transition state stereochemistry. X-Ray analysis, 2559–72

SIGMATROPIC SHIFT

Tricyclic [10]annulenes. Part 6. Preparation and properties of 7b-ethyl- and 7b-isopropyl-7bH-cyclopent[*cd*]indenes, 731–4

Phenylthio migrations in rearrangements of 2,2-bisphenylthioethanols, 1055–66

SILANE

Some bifunctional acylsilanes and their photochemical reactions, 409–14

Silicon-mediated annulation. Part 1. A synthesis of tetrahydropyran-4-one, oxepan-4-ones, and oxocan-4-ones *via* intramolecular directed aldol reactions, 2093–100

Silicon-mediated annulation. Part 2. A synthesis of β -alkoxy cyclo-octanones *via* intramolecular directed aldol reactions, 2101–8

SILICON

The synthesis of *O,O*-bistrimethylsilyl *S*-trihalogenomethyl phosphorothioates, 1419–24

Regiospecific no-carrier-added radiobromination and radiiodination of aryltrimethyl group IVb organometallics, 1941–8

SILYLATION

5,6,7,8-Tetrahydroquinolines. Part 6. Silylation *vs.* thioamidation in the reaction of silyl isothiocyanates with organometallics: influence of the solvent and of the substituents on silicon, 1917–20

SODIUM

sp^2 -Hybridized β -substituted organo-lithium, -sodium, and -potassium dianions; preparation, stability, and reactivity, 447–52

The reduction of tertiary *N*-styrylenamides, 1781–6

SOLANACEAE

Physapubenolide and pubescenin, two new ergostane-type steroids from *Physalis pubescens* L. (Solanaceae), 2241–6

SOLID-PHASE PEPTIDE SYNTHESIS

Peptide synthesis. Part 6. Protection of the sulphhydryl group of cysteine in solid-phase synthesis using *N*_ε-fluorenylmethoxycarbonylamino acids. Linear oxytocin derivatives, 2057–64

Peptide synthesis. Part 7. Solid-phase synthesis of conotoxin G1, 2065–74

SOLID-STATE CONFORMATION

Synthesis of sequential polypeptides containing L-isoleucine for assignment of the far-i.r. band characteristic of isoleucyl in a peptide α -helix, 765–8

SPERMIDINE

The biosynthesis of spermidine. Part 1: biosynthesis of spermidine from L-[3,4- $^{13}\text{C}_2$]methionine and L-[2,3,3- $^2\text{H}_3$]methionine, 2007–10

The biosynthesis of spermidine. Part 2: Preparation and study by ^1H n.m.r. spectroscopy of hexahydropyrimidines from spermidine and propane-1,3-diamines, 2011–6

Biosynthesis of spermidine. Part 3: The stereochemistry of the formation of the N-CH₂ group in the biosynthesis of spermidine, 2017–24

SPIROACETAL

New synthetic routes to spiroacetals. The 3,4-dihydro-2*H*-pyran approach to (\pm)-talaromycin B, 1879–84

SPIROBIBENZINDAN

Liquid chromatographic optical resolution of 2,2'-spirobibenz[e]indan derivatives and absolute stereochemistry as determined by the C.D. exciton chirality method, 1845–8

SPIROBIDIOXANE

The synthesis of (*R*)- and (*S*)-spirobi-1,4-dioxane and related spirobicycles from D-fructose, 1457–62

S_{RN}1 PROCESS

The peculiar behaviour of the trifluoromethyl substituent in S_{RN}1 processes, 2515–20

STANNANE

A general method for the synthesis of 3,5-cyclovitamin D₃ and derivatives. A stereoselective synthesis of vitamin D₃, 1185–90

STARFISH SAPONIN

Starfish saponins. Part 17. Steroidal glycoside sulphates from the starfish *Ophidiaster ophidianus* (Lamarck) and *Hacelia attenuata* (Gray), 655–60

STENOPHYLLAN

Tannins and related compounds. Part 26. Isolation and structures of stenophyllanins A, B, and C, novel tannins from *Quercus stenophylla*, 163–72

STEREOCHEMISTRY

The preparation and properties of some chiral fluoromethylphosphonates, phosphonothioates, and phosphonamidothioates, 233–8

Synthesis and stereochemistry of substituted bi- and tricyclic 4,5-dihydropyrazoles, 481–6

Chemistry of ketene acetals. Part 8. Stereochemistry of the reaction of 1,1-dimethoxypropene with aldehydes, 561–4

Neighbouring group participation in the allylic oxidation of a Δ^5 -steroid, 647–50

Structure-activity studies with the $\alpha\beta$ -dihydroxyacid dehydratase of *Salmonella typhimurium*, 691–6

Compounds with bridgehead nitrogen. Part 49. The synthesis and stereochemistry of perhydropyrido[3,2,1-*jk*][3,1]benzoxazepines and of *r*-3a,*t*-11a,*c*-14a,*t*-14b,*t*-22a,*t*-22b-perhydrodiquino[1,8a,8-*c,d*:1',8a',8'-*jk*][1,8,3,10]dioxadiazacyclotetradecine, 913–8

Nitrogen bridgehead compounds, Part 49. Synthesis and stereochemistry of 9-aminotetrahydro-4*H*-pyridol[1,2-*a*]pyrimidin-4-ones, 1015–8

Stereochemistry of catabolism of the RNA base uracil, 1355–62

Stereochemistry of catabolism of the DNA base thymine and of the anti-cancer drug 5-fluorouracil, 1363–72

The biosynthesis of spermidine. Part 1: Biosynthesis of spermidine from L-[3,4- $^{13}\text{C}_2$]methionine and L-[2,3,3- $^2\text{H}_3$]methionine, 2007–10

Biosynthesis of spermidine. Part 3: The stereochemistry of the formation of the N-CH₂ group in the biosynthesis of spermidine, 2017–24

STEREOCONTROL

The chemistry of pseudomonic acid. Part 7. Stereochemical control in the preparation of C-2-substituted monic acid esters *via* the Peterson olefination, 541–8

STEREOCONTROLLED SYNTHESIS

Studies on lactams. Part 74. An approach to the total synthesis of amino sugars *via* β -lactams, 2045–50

STEREOSELECTIVE

The stereocontrolled Horner–Wittig reaction: synthesis of disubstituted alkenes, 2307–26

Synthesis of single isomers (*E* or *Z*) of protected γ,δ -unsaturated ketones by the Horner–Wittig reaction, 2585–98

STEREOSELECTIVE REDUCTION

Stereoselective synthesis of the 20-hydroxyecdysone side chain, 557–60

Stereoselective synthesis of (\pm)-ancistrofuran and its stereoisomers, 2463–8

STEREOSELECTIVE SYNTHESIS

- Enantiomerically pure sulphanyl-4,5-dihydroisoxazoles. Part 1. Stereocontrolled synthesis of optically active β -ketols and γ -amino alcohols, 2289–92
- Enantiomerically pure sulphanyl-4,5-dihydroisoxazoles. Part 2. Synthesis of masked and unmasked β,β' -dihydroxy ketones *via* stereocontrolled double aldol condensation, 2293–8

STEREOSELECTIVITY

- Chiral synthesis of polyketide-derived natural products. Part 3. Stereocontrolled synthesis of a chiral fragment corresponding to both the C-1—C-4 and C-9—C-12 units of erythromycin A from D-glucose, 1–6
- Chiral synthesis of polyketide-derived natural products. Part 4. Synthesis of a left-hand segment with six consecutive chiral centres of dihydroerythronolide A for the total synthesis of erythromycin A from D-glucose, 7–18
- Chiral synthesis of polyketide-derived natural products. Part 5. Synthesis of a chiral segment corresponding to the C-1—C-5 unit of erythromycin A from D-glucose, 19–26
- Chiral synthesis of polyketide-derived natural products. Part 6. Chemical correlation of chiral synthons, derived from D-glucose for the synthesis of erythromycin A, with chemical cleavage products of the natural antibiotic, 27–34
- The stereoselectivity of addition of *N*-benzyl-*C*-alkylnitrones to methyl crotonate. X-Ray crystal structure of (3*RS*,4*SR*,5*RS*)-2-benzyl-4-methoxycarbonyl-5-methyl-3-[(4*RS*)-2,2,5,5-tetramethyl-1,3-dioxolan-4-yl]isoxazolidine, 2753–62

STEREOSPECIFIC REDUCTION

- Prostaglandins: a novel synthesis of \pm -PGF_{1 α} *via* cyclopentane-1,3-dione derivatives, 203–6

STERIOD

- A new method for the oxidation of alkenes to enones. An efficient synthesis of Δ^5 -7-oxo steroids, 267–74
- A nuclear magnetic resonance study of the conversion of 4 β -acetoxy-3 β -hydroxy- Δ^5 -steroids into 3 β ,6 β -diacetoxy- Δ^4 -steroids, 331–4
- Neighbouring group participation in the allylic oxidation of a Δ^5 -steroid, 647–50
- 4-Chloromercurioandrosta-4,6-diene-3,17-dione: preparation, X-ray structure determination, and potential utility, 1049–54
- Reconstruction of ring A of 3,4-dinor-2,5-seco steroids, 1201–4
- Studies in terpenoid biosynthesis. Part 31. Some aspects of the chemistry and biosynthesis of the steroidal antibiotic, demethoxyviridin, 1311–4
- Unsaturated steroids. Part 12. Synthesis of 1 α ,3 β -dihydroxy-24-nor-9,10-secochola-5,7,10(19)trien-23-*oic* (calcitric) acid and of the cholic- and 25-homocholeic acid analogues, 1331–6
- Unsaturated steroids. Part 13. Further observations upon the formation of aromatic ring c steroids: X-ray structure of 22,23-dibromo-10-methyl-19-noranthraergosta-5,7,9(10),14-tetraene and of 2 β ,3 α ,22,23-tetrabromo-18-nor-17-isoergosta-8(9),11,13(14)-triene, 1337–42
- Photo-induced transformations. Part 79. On the mechanism of the formation of oxa steroids *via* photo- and thermally-induced rearrangement of 3-hydroxy- Δ^5 -steroid hypoidites in the presence of mercury(II) oxide and iodine. An oxygen-18 labelling study, 1431–6
- Steroids. Part 32. Configurational analysis of 16-methyltestosterone derivatives, 1597–600
- Cardiotonic steroids. Part 10. Synthesis of digitoxigenin from 3 β -acetoxyandrost-5-en-17-one involving palladium-induced rearrangement of an allylic epoxide, 1601–6
- Functionalisation of saturated hydrocarbons. Part 3. The oxidation of 3 β ,5 α ,6 β -triacetoxycholestane using the Gif system, 2109–18
- A ²H n.m.r. study of the steroidal dienone-phenol rearrangement, 2129–32
- A further synthesis of the corticosteroid side chain starting with a suitable 17-ketone, 2191–2

STEROIDAL GLYCOSIDE

- Starfish saponins. Part 17. Steroidal glycoside sulphates from the starfish *Ophidiaster ophidianus* (Lamarck) and *Hacelia attenuata* (Gray), 655–60

STEROIDAL LACTONE

- Physapubenolide and pubescenin, two new ergostane-type steroids from *Physalis pubescens* L. (Solanaceae), 2241–6
- Structure of the steroidal lactone isolated from turtle bile: (22*S*,25*R*)-3 α ,7 α ,12 α -trihydroxy-5 β -cholestano-26,22-lactone, 2701–4

STILBENE

- Use of dibenzophosphole oxides in the Horner reaction: stereospecific formation of (*Z*)-stilbene from an *erythro*- β -hydroxyalkylphosphine oxide, 1953–6

STREPTOCOCCUS PNEUMONIAE

- Structure of the capsular polysaccharide from *Streptococcus pneumoniae* type 9, 1665–74

STYRYL ENAMIDE

- N*-Alkylation of some secondary styryl enamides, 831–6

SUBSTITUENT

- The peculiar behaviour of the trifluoromethyl substituent in *S_{RN}1* processes, 2515–20

SUCCINIC ACID

- Metabolites of the higher fungi. Part 22. 2-Butyl-3-methylsuccinic acid and 2-hexylidene-3-methylsuccinic acid from xylariaceae fungi, 1481–6

SUGAR NITRO-OLEFIN

- Studies on sugar nitro-olefins. Part 6. Synthesis of (3*R*)-3,5,6,7-tetrahydro-2-hydroxyimino-3-(penta-*O*-acetylpenitol-1-yl)benzofuran-4(2*H*)-ones from 3,4,5,6,7-penta-*O*-acetyl-1,2-dideoxy-1-nitrohept-1-enitols and cyclohexane-1,3-diones, 2695–700

SULPHENAMIDE

- Oxidation of 2,4-dinitrobenzenesulphenamide in the presence of 2,3,4,5-tetraphenylpyrrole, 1967–70
- Acid-promoted decomposition of benzenesulphenanilides and *N*-aryl bis(benzenesulphen)amides, 2261–6

SULPHENANILIDE

- Acid-promoted decomposition of benzenesulphenanilides and *N*-aryl bis(benzenesulphen)amides, 2261–6

SULPHENYLATION

- Trihalogenomethylsulphenylation of tetraisopropyl methylenebisphosphonates, 1935–40

SULPHENYL CHLORIDE

- Ethyl and methyl thioacetates, dienophilic thioaldehydes formed from sulphenyl chlorides by 1,2-elimination, 1541–6

SULPHIDE

- Phenylthio migrations in rearrangements of 2,2-bisphenylthioethanols, 1055–66

SULPHOLENE

- Study of the alkylation reactions of sulphol-3-enes, 515–20

SULPHONAMIDE

- N*-Alkylation of some secondary styryl enamides, 831–6

SULPHONANILIDE

- Spirodienones. Part 5. The synthesis and reactions of *N*-sulphonylcyclohexadienimines, 1829–36

SULPHONE

- Regio- and stereo-selective desulphurizative γ -substitution of α -substituted β -methylallyl sulphoxides and sulphones with lithium dialkylcuprates providing trisubstituted olefins, 1171–6
- Preparation of vinylic sulphones by Peterson olefination using phenyl trimethylsilylmethyl sulphone, 1949–52
- 1,3-Dipolar cycloadditions with alkynyl phenyl sulphones, 2621–4

SULPHONIUM

- Functionalisation of alkenes by a cycloaddition-cycloreversion sequence. Part 2. Anionic cycloreversion reactions of 2,5-dihydrothiophene derivatives, 1161–6

SULPHONYLATION

- The preparation and reactions of a new glycoside: 2'-chloroethyl β -D-fructopyranoside, 1447–56

SULPHOXIDE

- Chiral α -sulphonyl hydrazones as effective reagents for stereoselective aldol-type condensation, 251–4
- Double stereoselection in the aldol-type synthesis of γ -methyl and γ -alkoxy β -hydroxy ketones mediated by α -sulphonyl hydrazones, 255–60
- Electrophilic substitution of β,γ -unsaturated esters and ketones using phenyl vinyl sulphoxide as a vinyl cation synthon, 661–8
- Regio- and stereo-selective desulphurizative γ -substitution of α -substituted β -methylallyl sulphoxides and sulphones with lithium dialkylcuprates providing trisubstituted olefins, 1171–6
- Structure and absolute stereochemistry of thioacetal sulphoxides obtained by fungal metabolism of 2-alkyl-1,3-dithianes, 1547–52

SULPHOXIDE ELIMINATION

- A regioselective route to conjugated enones *via* α -phenylthio ketones, 1237–44
- Heterocycles by cycloaddition. Part 7. Cycloaddition reactions of mesoionic dithiolones with fulvenes, 1245–8

SUPPORTED ALKOXIDE

Polymer supported alkoxides: synthesis and reactivity, 1257–60

SYDNONE

1,3-Dipolar cycloadditions with alkynyl phenyl sulphones, 2621–4

SYNTHANECINE

Pyrrrolizidine alkaloid analogues. Synthesis of 11-membered macrocyclic diesters of (\pm)-synthanecine A, 2475–8

TALAROMYCIN

New synthetic routes to spiroacetals. The 3,4-dihydro-2*H*-pyran approach to (\pm)-talaromycin B, 1879–84

TANNIN

Tannins and related compounds. Part 26. Isolation and structures of stenophyllanins A, B, and C, novel tannins from *Quercus stenophylla*, 163–72

Tannins of Rosaceae medicinal plants. Part 2. Gemins A, B, and C, new dimeric ellagitannins from *Geum japonicum*, 315–22

Synthesis of condensed tannins. Part 13. The first 2,3-*trans*-3,4-*cis*-procyanidins: sequence of units in a 'trimer' of mixed stereochemistry, 669–76

The molecular and crystal structure of (+)-2,3-*trans*-3,4-*trans*-leucocyanidin [(2*R*,3*S*,4*R*)-(+)-3,3',4,4',5,7-hexahydroxyflavan] dihydrate, and comparison of its heterocyclic ring conformation in solution and the solid state, 1413–8

Synthesis of condensed tannins. Part 14. Biflavanoid profisetinidins as synthons. The acid-induced 'phlobaphene' reaction, 2521–8

Synthesis of condensed tannins. Part 15. Structure of natural 'angular' profisetinidin tetraflavanoids: asymmetric induction during oligomeric synthesis, 2529–36

Synthesis of condensed tannins. Part 16. Stereochemical differentiation of the first 'angular' (2*S*,3*R*)-profisetinidin tetraflavanoids from *Rhus lancea* (karree) and the varying dynamic behaviour of their derivatives, 2537–44

TARTARIC ACID

Synthesis of 4-hydroxy-2,5-dimethylfuran-3(2*H*)-one (furanol) from (2*R*,3*R*)-tartaric acid, 795–8

TAUTOMERISM

Tricyclic [10]annulenes. Part 5. Phenol–keto tautomerism in the 2- and 5-hydroxy derivatives of 7*b*-methyl-7*bH*-cyclopent[*cd*]indene, 383–90

TELLURIDE

Oxidation of alkyl phenyl selenides, tellurides, and telluroxides with *meta*-chloroperbenzoic acid for a facile and novel transformation of C–Se and C–Te bonds to C–O bonds, 471–80

TELLURIUM OXIDE

Liquid-phase 1,4-diacetoxylation of conjugated dienes with tellurium(IV) oxide and alkali metal halides, 499–504

TELLUROXIDE

Oxidation of alkyl phenyl selenides, tellurides, and telluroxides with *meta*-chloroperbenzoic acid for a facile and novel transformation of C–Se and C–Te bonds to C–O bonds, 471–80

TEMPLATE EFFECT

Role of metal salts in the synthesis of furan–ketone condensation macrocycles: an 'apparent' metal template effect, 973–82

TERPENE

Synthesis of the key intermediate (\pm)-18,19-dinor-14 α H-cheilanthal-12,15-dien-17-one and its transformation into the geochemical marker 18,19-dinor-13 β H,14 α H-cheilanthane and the marine-type sesterterpene methyl scalar-17-en-25-oate, 1227–32

Studies in terpenoid biosynthesis. Part 31. Some aspects of the chemistry and biosynthesis of the steroidal antibiotic, demethoxyviridin, 1311–4

Studies on rearrangements in derivatives of grandiflorenic acid. Part 1. Reaction of the epoxides of methyl (–)-kaur-9(11)-en-19-oate and (–)-kaur-9(11)-en-19-oic acid with boron trifluoride–diethyl ether either in the absence or in the presence of *N*-nitrosomethylurea. Formation of two diterpenes of a new skeletal type, 1693–8

TERPENOID

Studies in terpenoid biosynthesis. Part 32. The incorporation of aphidicol-16-ene and aphidicolan-16 β -ol into the diterpenoid aphidicolin by the fungus *Cephalosporium aphidicola*, 2705–8

TESTOSTERONE

Steroids. Part 32. Configurational analysis of 16-methyltestosterone derivatives, 1597–600

TETRAFLAVANOID

Synthesis of condensed tannins. Part 15. Structure of natural 'angular' profisetinidin tetraflavanoids: asymmetric induction during oligomeric synthesis, 2529–36

Synthesis of condensed tannins. Part 16. Stereochemical

differentiation of the first 'angular' (2*S*,3*R*)-profisetinidin tetraflavanoids from *Rhus lancea* (karree) and the varying dynamic behaviour of their derivatives, 2537–44

TETRATHIAFULVENE

New electron donors for organic metals: the synthesis of highly conjugated bis-(1,3-dithiole) derivatives, 1675–80

TETRAZINE

Approaches to 1,2,3,5-tetrazines. Synthesis of 1,2,3,5-tetrazinones and the formation of zwitterionic 1,2,4-triazolin-3-ones and 1-arylimino-1,2,4-triazolium salts, 415–8

An investigation into the mechanism of formation of oxadiazoles and arylidenehydrazides from the action of methanolic potassium hydroxide on 1,4-dihydro-*s*-tetrazines, 1081–6

Rearrangement reactions of 1,3,6-triaryl-1,4-dihydro-*s*-tetrazines leading to 2,4-diarylquinazolines, 1-anilino-3,5-diaryl-1*H*-1,2,4-triazoles, 1,3,5-triaryl-1*H*-1,2,4-triazoles, and 2,5-diaryl-1*H*-1,3,4-oxadiazoles. X-Ray structure determination of 6-isopropyl-2,4-diphenylquinazoline, 2709–12

TETRONIC ACID

Synthesis of (*E*)- and (*Z*)-pulvinones, 1567–76

Ethylidenetronic acid and its derivatives. Condensations with carbonyl compounds, leading to reassignment of ramigenic acid from *Penicillium charlesii*, 2393–8

Directed metallations of 4-ethylidenetronic acid *O*-methyl ether and its derivatives as a synthetic entry to natural 4-oxofuran-2-ones, 2399–406

Synthesis of isospertetronin, isogregatin and related *O*-methyltetric acids. Reassignment of 5-methoxyfuran-3(2*H*)-one structures to the aspertetronin group of natural products, 2407–12

THEBAINE

Reactions of transient *C*-nitrosocarbonyl compounds with dienes, mono-olefins, and nucleophiles, 883–6

Formation and reactions of *C*-nitrosoformate esters, a new class of transient dienophiles, 1437–42

An efficient synthesis of 14 β -aminocodeinone from thebaine, 1443–6

An efficient synthesis of 14 β -aminocodeinone from thebaine, 1443–6

C-Nitrosoformamides, a new class of transient dienophiles formed by oxidation of *N*-hydroxyureas, 2469–74

THERMOLYSIS

Thermal and photochemical studies of symmetrical and unsymmetrical dihydro-1,3,4-selenadiazoles, 107–14

A novel synthetic approach to isoatisirene-related compounds *via* an intramolecular Diels–Alder reaction, 927–34

Nitrile sulphides. Part 3. Thermal fragmentation of 1,3,4-oxathiazoles: formation of nitrile sulphides in a retro-1,3-dipolar cycloaddition reaction, 1517–22

Syntheses of (\pm)-tetrahydropalmitine and spirobenzylisoquinolines by thermolysis of benzocyclobutene derivatives, 2151–4

Generation of [1,2,4]triazolo[1,5-*a*]pyrimidine *N*-ylides and their ring transformation reactions, 2333–6

Cyclisation of Schiff bases containing amide or hydroxamic acid groups to 1,2-dihydroquinazolin-4-ones; thermal decomposition reactions of the 1,2-dihydroquinazolin-4-ones, 2779–84

THERMOLYTIC RING-OPENING

Thermolysis of phenyl-substituted 1,2-dihydronaphthalenes. Evidence for diphenylbutadienes as intermediates, 1819–28

THIACETAL

Structure and absolute stereochemistry of thioacetal sulphoxides obtained by fungal metabolism of 2-alkyl-1,3-dithianes, 1547–52

THIADIAZINE

Exchange, elimination, and ring opening reactions of 2,3-dihydrobenzimidazo[1,2-*d*][1,2,4]thiadiazoles and 3*H*-benzimidazo[2,1-*c*][1,2,4]dithiazoles, 1007–14

THIADIAZOLE

1,2,4-Thiadiazolylureas. A postscript to the oxidative cyclisation of thionoamidines, 311–4

THIANE

The synthesis of thiathromboxane analogues, 893–8

THIATHROMBOXANE

The synthesis of thiathromboxane analogues, 893–8

THIAZINE

The preparation and rearrangements of 5-acyl-2-phenyl-4-substituted 6*H*-1,3-thiazines. X-Ray molecular structure of 3-acyl-2-ethoxycarbonyl-4-(3-oxobutylthio)-5-phenylpyrrole, 1875–8

THIAZOLE

Reaction of cerium(IV) ammonium nitrate with 3-methylcephalosporins: synthesis of a 2-methoxy-3-methylcephalosporin, 1523-6

A new general synthesis of 2-(*N*-mono- and *N*-di-substituted amino)thiazoles, 1623-6

THIENOCINNOLINE

Intramolecular diazo coupling of 2-aminophenylthiophenes. The formation of isomeric thieno[*c*]cinnolines, 131-4

THIETANE

Photochemical cycloaddition of thiocarbonyl compounds to diphenylketene and a related ketenimine, 1957-60

THIIN

The synthesis of thiathromboxane analogues, 893-8

THIOALDEHYDES

Ethyl and methyl thioacetates, dienophilic thioaldehydes formed from sulphenyl chlorides by 1,2-elimination, 1541-6

THIOAMIDE

5,6,7,8-Tetrahydroquinolines. Part 6. Silylation *vs.* thioamidation in the reaction of silyl isothiocyanates with organometallics: influence of the solvent and of the substituents on silicon, 1917-20

THIOCARBONYL

Photochemical cycloaddition of thiocarbonyl compounds to diphenylketene and a related ketenimine, 1957-60

THIOIMIDE

Photochemical cycloaddition of thiocarbonyl compounds to diphenylketene and a related ketenimine, 1957-60

THIOL

Cyclopropacycloheptathiophenes and thiols: unexpected rearrangement with dithiols leading to benzo- and cyclo-octa-thiophenes. Spectroscopic and mechanistic studies, 983-90

THIONE

Stereochemical studies. Part 86. Saturated heterocycles. Part 81. Preparation of new thiouracils *via* retrodiene decomposition of methylene-bridged quinazolone thiones, 2483-8

THIONOAMIDINE

1,2,4-Thiadiazolylureas. A postscript to the oxidative cyclisation of thionoamidines, 311-4

THIOPHENE

Regioselective α - and β -metallations of thiophene derivatives bearing the 4,4-dimethyloxazolin-2-yl group. Application of the method to syntheses of 2,3- and 2,5-disubstituted thiophene derivatives, 173-82

Dehalogenation of 1-halogenothiophenyl-di- and -tetrahydroisoquinolines by sodium methoxide in dimethyl sulphoxide, 275-82

Inter- and intra-molecular reactions of allene-1,3-dicarboxylic acid esters with 2-vinylfurans and 2-vinylthiophenes. A potential route to a BC ring precursor of the nagilactones, 747-56

Functionalisation of alkenes by a cycloaddition-cycloreversion sequence. Part 2. Anionic cycloreversion reactions of 2,5-dihydrothiophene derivatives, 1161-6

THIOPHENOL

Reaction of 3-phenylglycidic esters. Part 2. Stereo- and regioselectivity in the oxirane ring opening of methyl *trans*-3-(4-methoxyphenyl)glycidate with various thiophenols and the effects of solvent and temperature, 421-8

THIOURACIL

Stereochemical studies. Part 86. Saturated heterocycles. Part 81. Preparation of new thiouracils *via* retrodiene decomposition of methylene-bridged quinazolone thiones, 2483-8

THYMIDYLATE SYNTHETASE INHIBITOR

Synthesis of some nucleoside cyclic phosphoramidates and related compounds *via* phosphoramidites, 199-202

THYMINE

Stereochemistry of catabolism of the DNA base thymine and of the anti-cancer drug 5-fluorouracil, 1363-72

TIN

A convenient method for the synthesis of *P*¹-(7-methylguanosine-5') *P*²-(ribonucleoside-5') diphosphates, 997-1000

A general method for the synthesis of 3,5-cyclovitamin D₃ and derivatives. A stereoselective synthesis of vitamin D₃, 1185-90

Regiospecific no-carrier-added radiobromination and radioiodination of aryltrimethyl group IVb organometallics, 1941-8

TITANIUM

Regioselectivity in the reactions of aryltri-isopropoxytitanium with pyrimidinones, 1997-2000

TRACHYLOBAGIBBERELLIN

Partial synthesis of a trachylobagibberellin analogue, 207-12

TRACHYLOBANE

Partial synthesis of a trachylobagibberellin analogue, 207-12

TRANSANNULAR CYCLISATION

Hydrazinolysis of 2-phenyl-2-(phthalimidoalkyl)indan-1,3-diones, 191-6

TRANSPORT PROPERTIES

Proton-assisted transport of amino acid and related polycarboxylate anions *via* polyammonium macrocycles, 615-20

TRIAZINE

Triazines and related products. Part 30. Cationic analogues of the antitumour drug 2,4,6-tris(dimethylamino)-1,3,5-triazine(hexamethylmelamine), 1533-40

Ketone enamines as dipolarophiles towards *C*-azidohydrazones, 1903-6

The synthesis of NH aldimines and derivatives by spontaneous and base-catalysed decomposition of oxaziridines, 2123-8

TRIAZOLE

Azo dienophiles. Diels-Alder reactions of 4-phenyl-1,2,4-triazole-3,5-dione and 5-phenylpyrazol-3-one with functionalised dienes, 71-4

Ketone enamines as dipolarophiles towards *C*-azidohydrazones, 1903-6

Rearrangement reactions of 1,3,6-triaryl-1,4-dihydro-*s*-tetrazines leading to 2,4-diarylquinazolines, 1-anilino-3,5-diaryl-1*H*-1,2,4-triazoles, 1,3,5-triaryl-1*H*-1,2,4-triazoles, and 2,5-diaryl-1*H*-1,3,4-oxadiazoles. X-Ray structure determination of 6-isopropyl-2,4-diphenylquinazoline, 2709-12

Triazolopyridines. Part 6. Ring opening reactions of triazolopyridines, 2719-24

TRIAZOLINE

Approaches to 1,2,3,5-tetrazines. Synthesis of 1,2,3,5-tetrazinones and the formation of zwitterionic 1,2,4-triazolin-3-ones and 1-arylimino-1,2,4-triazolium salts, 415-8

TRIAZOLOISOQUINOLINE

Triazolopyridines. Part 5. The reactions of 1,2,3-triazolo[5,1-*a*]isoquinoline: a new route to 1,3-disubstituted isoquinolines, 1897-902

TRIAZOLO-OXADIAZINE

Fused *v*-triazolo-heterocycles. Synthesis of 4*H*-*v*-triazolo[1,5-*d*][1,3,4]oxadiazines, 1167-70

TRIAZOLOPYRIDINE

Triazolopyridines. Part 5. The reactions of 1,2,3-triazolo[5,1-*a*]isoquinoline: a new route to 1,3-disubstituted isoquinolines, 1897-902

Triazolopyridines. Part 6. Ring opening reactions of triazolopyridines, 2719-24

TRIAZOLOPYRIMIDINE

Generation of [1,2,4]triazolo[1,5-*a*]pyrimidine *N*-ylides and their ring transformation reactions, 2333-6

TRIAZOLOQUINOLINE

Triazolopyridines. Part 5. The reactions of 1,2,3-triazolo[5,1-*a*]isoquinoline: a new route to 1,3-disubstituted isoquinolines, 1897-902

TRICARBONYLIRON

3*aH*-Indenes. Part 4. Formation and reactions of some dienone intermediates, 719-22

TRICHODERMA HAMATUM

Ovine III-thrift in Nova Scotia. Part 10. Palladium and rhodium complexes as reagents in the investigation of isocyanide metabolites of *Trichoderma hamatum*, 441-6

TRICHOTHECANE GLYCOSIDE

Structure elucidation of a novel trichothecene glycoside using ¹H and ¹³C nuclear magnetic resonance spectroscopy, 1553-6

TRICHOTHECENE

Phytotoxic compounds produced by *Fusarium equiseti*. Part 7. Reactions and rearrangement of the 7-hydroxy-12,13-epoxytrichothec-9-en-8-one skeleton, 1731-6

TRICYCLODODECATETRAENE

Photo-induced transformations. Part 76. Ring expansion through a [2 + 2] photocycloaddition- β -scission sequence; the photorearrangement of *endo*-4-cyanotricyclo[6.4.0.0^{2,5}]dodeca-1(12),6,8,10-tetraen-5-yl hypoidite to 4-cyanotricyclo[6.4.0.0^{2,4}]dodeca-1(12),6,8,10-tetraen-5-one.² X-Ray crystal structure of 4-cyanotricyclo[6.4.0.0^{2,4}]dodeca-1(12),6,8,10-tetraen-5-one, 327-30

TRIFLUOROACETOXYLSULPHIDE

Additions to alkenes *via* metal ion-promoted oxidation of 2,2'-

- TRIFLUOROACETOXYLSULPHIDE** (contd)
dipyridyl disulphide and bis-(2-aminophenyl) disulphide, 1045–8
- TRIHALOGENOMETHYL PHOSPHOROTHIOATE**
The synthesis of *O,O*-bistrimethylsilyl *S*-trihalozenomethyl phosphorothioates, 1419–24
- TRITERPENE**
Crystal structure of cordialin A acetate, an unusual dammarane triterpene hemiacetal, 323–6
- TROPONE**
Light-induced synthesis of 3-alkyltropones, 2283–8
- TYROSINE**
The biosynthetic incorporation of [*phenyl*-³H]phenylalanine into gliotoxin, 1487–90
- URACIL**
Nucleoside analogues. Part 2. Further molecular combinations of (5-substituted) uracil and *N*-(2-chloroethyl)-*N*-nitrosourea residues as anticancer agents, 93–100
Pyrimidines. Part 53. Novel ring transformation induced by the substituent effect of the phenyl group. Reaction of 5-bromo-6-methyl-1-phenyluracil derivatives with amines and hydrazine to give hydantoins and pyrazolones, 1137–42
Studies on uracil derivatives and analogues. Part 8. A non-catalytic method for the conversion of uracil derivatives into dihydrouracil derivatives, 1295–300
Stereochemistry of catabolism of the RNA base uracil, 1355–62
Stereochemistry of catabolism of the DNA base thymine and of the anti-cancer drug 5-fluorouracil, 1363–72
- UREA**
The formation and metabolism of *N*-hydroxymethyl compounds. Part 6. The synthesis of *S*-amidomethyl-, *S*-ureidomethyl-, and *S*-(1,3,5-triazin-2-ylaminomethyl)-glutathione derivatives, 75–80
Nucleoside analogues. Part 2. Further molecular combinations of (5-substituted) uracil and *N*-(2-chloroethyl)-*N*-nitrosourea residues as anticancer agents, 93–100
1,2,4-Thiadiazolylureas. A postscript to the oxidative cyclisation of thionoamidines, 311–4
C-Nitrosoformamides, a new class of transient dienophiles formed by oxidation of *N*-hydroxyureas, 2469–74
- URIDINE**
Syntheses of β-D-arabinofurano[1',2':4,5]oxa(thia)zolidines, 779–84
- URINARY LIGNAN**
Synthesis of the [²H]-labelled urinary lignans enterolactone and enterodiol, 35–8
- VALIDAMINE**
Total synthesis of (+)-(1,2,3/4,5)-2,3,4,5-tetrahydrocyclohexane-1-methanol and (+)-(1,3/2,4,5)-5-amino-2,3,4-trihydrocyclohexane-1-methanol [(+)-validamine]. *X*-Ray crystal structure of (3*S*)-(+)-2-*exo*-bromo-4,8-dioxatricyclo[4.2.1.0^{3,7}]nonan-5-one, 903–6
- VALIDAMYCIN**
Synthetic studies on antibiotic validamycins. Part 11. Synthesis of validamycin A, 2369–74
- VATICA AFFINIS**
Polyphenols from dipterocarp species. Vaticaffinol and ε-viniferin, 159–62
- VATICAFFINOL**
Polyphenols from dipterocarp species. Vaticaffinol and ε-viniferin, 159–62
- VILSMEIER REAGENT**
Studies of chromenes. Part 5. Reaction of the Vilsmeier reagent with 7-methoxy-2,2-dimethylchroman-4-ones. 4-Chloro-7-methoxy-2,2-dimethyl-2*H*-chromenes and their nitration products, 1127–36
- VINIFERIN**
Polyphenols from dipterocarp species. Vaticaffinol and ε-viniferin, 159–62
- VINYL ANION**
Directed metallations of 4-ethylidenetetronic acid *O*-methyl ether and its derivatives as a synthetic entry to natural 4-oxyfuran-2-ones, 2399–406
- VINYL ANION EQUIVALENT**
A regioselective route to conjugated enones *via* α-phenylthio ketones, 1237–44
- VIRESCENOL**
3β,19-Oxidoisopimara-7,15-diene as intermediate in the conversion of virescenol B into isopimara-7,15-dien-19-ol, 2173–6
- VIRIDIN**
Studies in terpenoid biosynthesis. Part 31. Some aspects of the chemistry and biosynthesis of the steroidal antibiotic, demethoxyviridin, 1311–4
- VITAMIN BIOSYNTHESIS**
Specific inhibitors in vitamin biosynthesis. Part 7. Syntheses of blocked 7,8-dihydropteridines *via* α-amino ketones, 1645–60
- VITAMIN D₃**
A general method for the synthesis of 3,5-cyclovitamin D₃ and derivatives. A stereoselective synthesis of vitamin D₃, 1185–90
Unsaturated steroids. Part 12. Synthesis of 1α,3β-dihydroxy-24-nor-9,10-secochola-5,7,10(19)trien-23-*oic* (calcitric) acid and of the cholic- and 25-homocholeic acid analogues, 1331–6
- VITAMIN FOLIC ACID**
Stereochemistry of reduction of the vitamin folic acid by dihydrofolate reductase, 1349–54
- VOMITOXIN**
Phytotoxic compounds produced by *Fusarium equiseti*. Part 7. Reactions and rearrangement of the 7-hydroxy-12,13-epoxytrichothec-9-en-8-one skeleton, 1731–6
- WILKINSON COMPLEX**
Photochemical bromination of methyl (*E*)-2-methylbut-2-enoate with *N*-bromosuccinimide: formation of 4-bromo-2-methylbut-2-en-4-olide, 2353–60
- WITHANOLIDE**
Pubescenol, a new withanolide from *Physalis pubescence*, 419–20
- WITTIG REACTION**
Synthesis of (*Z,E*) and (*Z,Z*)-α-farnesenes and homofarnesenes, 399–404
Reactions of *o*-quinones with some bis-phosphonium salts in the presence of lithium ethoxide, 429–36
Synthesis of (*E*)- and (*Z*)-pulvinones, 1567–76
Olivanic acid analogues. Part 2. Total synthesis of some *C*(6)-substituted 7-oxo-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylates, 2219–34
- XANTHONE**
The chemistry of fungi. Part 80. The *X*-ray crystallographic structure of 8α-bromo-5α,5,6,7,8,8a-hexahydro-1,7α-dihydroxy-8α-methoxycarbonylxanthone monohydrate, a rearrangement product of methyl 2α-bromo-2β-(2,6-dimethoxybenzoyl)-7-oxabicyclo[2.2.1]heptane-3β-carboxylate: a novel route to xanthenes: the synthesis of pinselin, 1343–8
- XYLARIACEOUS**
Metabolites of the higher fungi. Part 22. 2-Butyl-3-methylsuccinic acid and 2-hexylidene-3-methylsuccinic acid from xylariaceous fungi, 1481–6
- XYLOPININE**
A photochemical route to the protoberberine skeleton, 1177–80
- YLIDE**
Functionalisation of alkenes by a cycloaddition–cycloreversion sequence. Part 2. Anionic cycloreversion reactions of 2,5-dihydrothiophene derivatives, 1161–6
Generation of [1,2,4]triazolo[1,5-*a*]pyrimidine *N*-ylides and their ring transformation reactions, 2333–6
- ZINC**
Both-faces hindered porphyrins. Part 3. Synthesis and characterization of internally five-co-ordinated iron(II) basket handle porphyrins derived from 5,10,15,20-tetrakis(*o*-aminophenyl)porphyrin, 221–32
- ZINC-MEDIATED COUPLING**
Necic acid synthons. Part 5. Total synthesis of (±)-retroneic acid and related compounds *via* zinc-mediated coupling of halogenoesters, 2713–8
- ZIRCONIUM CATALYSIS**
A total synthesis of zoapatanol, 1589–96
- ZOAPATANOL**
A total synthesis of zoapatanol, 1589–96
- ZWITTERION**
Approaches to 1,2,3,5-tetrazines. Synthesis of 1,2,3,5-tetrazinones and the formation of zwitterionic 1,2,4-triazolin-3-ones and 1-arylimino-1,2,4-triazolium salts, 415–8
Some novel reactions of pyridinium-2-carboxylate betaines, 2167–72

