

Index of Types of Compounds Chromatographed

This Index follows generally identical rules as those published in previous years i.e. references of general interest and techniques are within a given entry listed first, followed by applications and finally by papers limited to certain area of applications only. This, however, is applicable to highly populated entries, where subdivision appeared necessary. As in the past years the individual parts of the Bibliography Section i.e. Liquid column chromatography (C), Gas chromatography (G), Planar chromatography (P) and Electrophoresis (E) were numbered separately. Therefore the respective shortening should direct the reader to one of the techniques first before looking for a particular number (identical numbers occur under different techniques). Please note that this Index refers to the entry numbers in the Bibliography Section, J. Chromatogr. Vols. 713 and 714.

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C: 687(review), 700, 716, 731, 754, 782, 835, 1993, 2002, 2006, 2011, 2012, 2901, 3331, 3420, 4489, 4527, 4885
G: 1415, 2118
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E: 395, 396, 404, 661, 674, 685, 706, 714, 911, 2323, 3090
- , complex mixtures and incompletely defined enzymes
C: 816, 817, 3403, 4535-4537
G: 1541
E: 710, 1579-1581
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- , —, structural studies
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C: 1119, 2127, 4876
E: 930, 3212, 3213
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C: 2790, 2896, 3989, 4140
G: 310, 314, 753, 1347, 2071
P: 455, 456
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G: 45, 359, 1081, 1211, 1677
- Ergot alkaloids
C: 2114
G: 1909
- Essential oils
C: 420, 2985, 2989, 4121, 4280
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C: 1514, 2361, 2834, 3830
G: 15, 134, 269, 308, 309, 318, 906, 907, 911, 912, 1162, 1443, 1754, 1863, 2008
P: 7
- , cyclic ethers
C: 4130
G: 311, 909, 1441, 2006, 2010

- P: 680
- Explosives
C: 424
G: 993, 1169, 1553, 1555, 1637, 1787, 2083, 2084
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C: 2144
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- Flavonoids and γ -pyrone derivatives
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- P: 41, 42, 87, 119, 163, 182, 200, 243, 254, 281, 282, 348, 393, 444, 462, 479, 489, 492, 499, 509, 510, 548, 554, 557, 576, 632, 637
- E: 201, 228, 290, 436, 939, 993-995, 999, 1253, 1340, 1422, 1425, 2051, 2134, 2160, 2167, 2190, 2194-2196, 2583, 2590, 2591, 2622-2625, 2786, 2930, 2945, 2977, 3224, 3225, 3276-3278, 3304
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G: 2259
P: 443
E: 2352, 2620, 2621
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- Food dyes
C: 999, 4681, 4906
P: 575, 728
E: 950, 2591
- Fullerenes
C: 192, 193, 197, 199, 200, 1523(review), 1526, 1527, 1534, 1538, 2761-2763, 2769, 2770, 2772, 2780, 4107, 4109, 4111, 4112
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- Fumigants
G: 468, 543
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C: 990, 2228, 2229, 3574, 3589, 3590
G: 542, 544-548, 1072, 1667, 2168, 2187-2189
P: 572, 727
E: 161
- Furans
C: 241, 1514, 1558, 2824, 4114
G: 2005
P: 45, 204, 510, 616
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- Gases
C: 2542
G: 27, 38, 76, 86, 92, 199, 702, 703, 705, 710-712, 734, 780, 1173, 1175, 1176, 1179, 1286, 1353, 1783, 1794-1796, 1801, 1802, 1808, 1833, 2127, 2274, 2313
- Gibberelins
C: 2131, 3461
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- Glycerides, simple
C: 364, 365, 2935, 4244, 4249
G: 385, 386, 388-390, 824, 945, 947, 953, 956, 1498-1501, 1503-1505, 1507, 2052-2055
P: 66, 77, 89, 269, 467, 470, 692, 703
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- Glycolipids
C: 353, 370, 376, 382, 1659, 2853, 2940, 2949, 4217, 4243, 4253
P: 62, 65, 75, 78, 83, 84, 96, 97, 263, 276, 278, 283, 284, 448, 461, 466, 475, 485, 496, 695, 696, 701
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- Glycols and polyols
C: 1031, 1032, 1546, 1570, 2254, 2787, 3830, 4914
G: 1679
P: 455
- Glycoproteins and glycopeptides, techniques
C: 141, 301, 302, 305, 1339, 1340, 1579(review), 1598, 2883, 4055(review), 4151(review), 4196(review), 4202(review), 4210, 4215(review), 4386
G: 331
E: 225, 232, 237, 1968, 1972, 2047, 2790(review), 2813, 2816, 2821
- , applications, non-biological
C: 297, 298, 300, 4199, 4397
E: 209, 219, 222, 227, 233, 235, 1967, 1975, 2811, 2814, 2822, 2921, 2924
- , —, microorganisms
C: 313, 2875, 4217
P: 248
E: 397, 757
- , —, plants
C: 585, 2882
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- , —, animal material
C: 303, 306, 309, 311, 312, 638, 1592-1594, 1599, 2048, 2878, 2884, 2886, 4198, 4200, 4203-4207, 4214
E: 220, 228, 229, 234, 236, 1181, 1182, 1223, 1267, 1358, 1964-1966, 1969(review), 1970, 1973, 1974, 2809-2812, 2815, 2817, 2820, 2824, 2953
- , structure investigation
C: 308, 1598, 2844, 2851, 2876, 2879, 2885, 2887, 2888, 4201, 4209
P: 453
E: 209, 220, 226, 295, 450, 1976, 2808
- Glycosaminoglycans (including proteoglycans of connective tissue)
C: 274, 275, 279, 280, 283, 285, 288-290, 292-295, 310, 828, 841, 1581, 1591, 1600, 2864, 2865, 2867, 2868, 2870-2872, 2880, 2881, 2949, 3232, 4181, 4188, 4189, 4192, 4197, 4212
E: 210, 212-215, 218, 230, 1175, 1177, 1952, 1959, 1961, 1963, 2804-2806, 3037, 3107
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- , structural studies
C: 277, 281, 2846, 2869, 2872, 3206, 4181, 4183, 4187, 4191, 4211, 4216
E: 198, 1962, 2823
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- Growth factors
C: 492, 493, 1204, 1801, 3059, 3061, 3088, 4331, 4609, 4613
G: 494
E: 726, 2010, 2859, 2865, 3119
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Growth factors, structural analysis

C: 1838

Gold, *see* Platinum metals and gold

Guanidine and guanidine derivatives

C: 4301

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Haemostatics

C: 2339, 3753, 4859

Halides and other inorganic halogen-containing compounds (including cyanides and cyanates)

C: 322, 1287, 2530, 2537, 2539-2541, 3887, 3888, 3892, 3894, 3896, 3898, 3900, 4690, 4900, 4977, 4981, 4983, 4992, 4994, 4995, 4997, 5001, 5003, 5006, 5012

G: 697-700, 1420, 1771, 1789-1792, 2311, 2318

P: 397

E: 1148, 1811, 1812

Hallucinogens (including cannabis constituents)

C: 1090

G: 631, 1128, 1723, 1726, 1729, 1734, 2247

Halogen derivatives of hydrocarbons, *see* Hydrocarbons, halogen derivatives

Halogens

C: 2536, 4992, 4996, 4998, 5000, 5005, 5006

G: 2320

E: 2670, 3294

Harman alkaloids

C: 3451, 4564

Herbicides, general techniques

C: 986, 989, 2218, 3588, 4670

G: 2185

P: 349, 350

E: 1131, 2587, 2588

—, carboxylic acid, anilides and related compounds

C: 988, 1770, 2223, 3586, 3587, 4182

G: 534, 538, 540, 1070, 1662-1664, 2169, 2172, 2175, 2177, 2179, 2182, 2186

P: 349, 570

E: 947

—, triazine derivatives

C: 987, 2222, 2226, 2227, 4609, 4666-4669, 4671, 4912

G: 498, 536, 539, 541, 749, 832, 1066, 1075, 1658, 1660, 1661, 1665, 2135, 2170, 2171, 2174, 2180-2184, 2186

P: 570, 571, 736

E: 947

—, urea derivatives

C: 977, 1177, 2224, 2225, 3574, 3586

G: 136, 535

E: 2588, 3227, 3228, 3270

Heterocyclics, nitrogen (other)

C: 41, 873, 2795, 3467, 3469, 4580-4582, 4817

G: 456, 1022, 1024, 2120

P: 147, 329, 540, 543

E: 937

see also individual groups of nitrogen containing heterocyclics and drugs

Heterocyclics, oxygen (other)

C: 237, 3776, 3989

G: 300, 306, 307, 2003

see also individual groups of oxygen containing heterocyclics

—, sulphur (other)

C: 880

G: 461, 1583, 1585, 1874, 2117

see also Thiazoles and isothiazoles; Thiophenes

Histamine and related substances

C: 428, 1583, 1718, 1715, 2996

P: 119

see also Imidazoles

Hormones peptidic and proteinous (including synthetic analogues)

C: 497, 504, 580, 1778, 1780, 1790, 1798, 1812, 4329, 4339, 4355

G: 455

P: 714

E: 232, 305, 317, 392, 1218, 1222, 2014, 2854, 2859

see also individual categories of peptidic hormones

—, synthesis and structural studies

C: 494, 513, 523, 1781, 1825, 4367, 4373

Humic acids

C: 1008, 2468, 3601, 4684

G: 219, 297, 684, 691, 949, 1165, 1168, 1371, 1475, 1759

E: 951, 1764

Hydrazines, hydrazides and hydrazones

C: 1063

G: 2178

Hydrocarbons

C: 185-204, 1522-1544, 2760-2786, 4105-4119

G: 197-268, 837-885, 1347-1414, 1934-1990

P: 33-36, 239, 240, 434-436

E: 184, 185, 1943-1945, 2780, 2781

—, reviews and books

C: 194, 203, 2783, 4119

P: 35, 659

—, theory and techniques

G: 736

—, aliphatic

C: 1337, 1522

G: 15, 16, 34, 87, 94, 187, 197, 199, 200, 202-206, 254, 260, 265, 786, 791, 799, 837-839, 841-845, 862, 1208, 1275, 1347-1350, 1352-1354, 1398, 1400, 1827, 1837, 1848, 1872, 1881, 1935, 1937-1943, 1953, 1982, 2309

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C: 79, 185-191, 194-196, 198, 1247, 1418, 1427, 1435, 1509, 1524, 1525, 1528-1533, 1535-1537, 2634, 2760, 2764-2768, 2771, 2773-2779, 2781, 3945, 3989, 4105, 4106, 4108, 4110, 4113, 4114, 4155

G: 26, 34, 127, 134, 141, 142, 159, 187, 208-214, 216, 217, 219-226, 235, 254, 260, 265, 657, 658, 766, 791, 813, 846, 847, 849-853, 855, 856, 858, 859, 863, 1153, 1154, 1157, 1214, 1252, 1278, 1330, 1345, 1355-1368, 1376, 1378, 1387, 1394, 1410, 1686, 1750, 1848, 1855, 1874, 1944-1956, 1963, 1978, 2279

P: 33, 34, 117, 390, 422, 425, 434, 659(review)

E: 7, 133, 134, 184, 185, 935, 1129, 1754, 1927, 1943, 2719, 2780, 2781

Hydrocarbons, halogen derivatives

- C: 85, 201, 1238(review), 1381, 1532, 1539, 1540, 2222, 2782, 2783(review), 2784, 3267, 4115(review)
- G: 17, 19, 41, 66, 76, 83, 127, 129, 208, 225-231, 233-251, 509, 512, 521, 543, 655, 657, 658, 665, 666, 668, 687, 733, 779, 813, 860-862, 864-878, 894, 898, 903, 1043, 1050, 1055, 1154, 1157, 1197, 1370-1373, 1375, 1377, 1379-1386, 1388, 1390-1392, 1395-1399, 1643, 1647, 1849, 1859, 1862, 1865, 1867, 1897, 1958-1961, 1963, 1965, 1967-1977, 1979-1981, 2279
- P: 53
- see also Biphenyl and derivatives; Pesticides, chlorinated
- , complex mixtures
- C: 203(review), 204, 1542, 2786, 3467, 3838, 3984, 4116, 4119(review), 4898
- G: 201, 253, 255, 256, 261, 266, 268, 664, 840, 881, 882, 884, 1166, 1310, 1402, 1407, 1985
- P: 239, 240, 435
- Hydrogen
- G: 704, 748, 1172, 1811, 2312
- Hydrolases, acting on ester bonds (E.C. 3.1.-)
- C: 618, 725, 743-764, 804, 1944, 2022, 2029-2040, 3275, 3319-3342, 4501-4509
- E: 309, 487, 645-671, 1008, 1340, 1535-1548, 1596, 2088, 2223, 2274, 2297, 2311-2320, 2352(review), 3058, 3062-3068
- , —, structural studies
- C: 528, 537, 538, 3092, 3093, 3103
- E: 319, 2030
- , acting on glycosyl compounds (E.C. 3.2.-)
- C: 148, 288, 765-774, 2041, 2043-2049, 2569, 3343-3356, 3371, 4026, 4510-4518
- E: 56, 215, 672-683, 1008, 1340, 1549-1554, 1974, 2111, 2274, 2321-2328, 2352(review), 2408, 2709, 2808, 3069-3076
- , —, structural studies
- C: 1843, 2042
- E: 3074
- , acting on ether bonds (E.C. 3.3.-)
- C: 3361
- , acting on peptide bonds (E.C. 3.4.-)
- C: 609, 679, 775-779, 783, 785, 789, 791-793, 795, 798-801, 1889, 2050, 2052-2055, 2057-2064, 2066-2068, 3058, 3074, 3082, 3206, 3357-3359, 3362-3364, 3366-3372, 3375-3381, 3383-3390, 4410, 4520-4526
- E: 462, 596, 630, 684, 689-692, 695-697, 701, 740, 1293, 1555-1559, 1561-1566, 1570, 1573, 2140, 2329, 2331, 2334-2337, 2339-2347, 2352, 2353, 2589, 3077, 3079-3085, 3087, 3089-3091
- , —, structural studies
- C: 533, 679, 4360
- E: 596, 684
- , acting on C-N bonds other than peptide bonds (E.C. 3.5.-)
- C: 784, 788, 790, 794, 796, 797, 3365
- E: 1568, 2348, 2350, 3078
- , —, structural studies
- C: 536, 1837
- , acting on acid anhydride bonds (E.C. 3.6.-)
- C: 780, 781, 786, 787, 2037, 2051, 2056, 2065, 3360, 3373, 3374, 3382, 4519
- E: 432, 685-688, 693, 694, 698-700, 1560, 1569, 1571, 1572, 2330, 2332, 2333, 2338, 2349, 3086, 3088

Hydrolases, acting on acid anhydride bonds (E.C. 3.6.-), structural studies

- C: 521, 1832
- E: 320, 1243, 1567, 2028, 2351, 2870, 2871
- , incompletely identified
- G: 1094
- , activity measurement
- C: 754, 782, 3331, 4527, 4885
- E: 661, 674, 685, 911, 2323, 3090
- Hypnotics (barbiturates, sedatives)
- C: 31, 1095, 1096, 1102, 1208, 2324, 2332, 2341, 2354, 2583, 3683, 3689, 3788, 4771, 4794, 4801, 4807, 4872
- G: 156, 606, 619, 1018, 1117, 1119, 1688, 1703, 1704, 1707, 1711, 1724, 2217, 2227, 2232, 2235
- P: 182, 236, 423, 583, 587, 590, 591, 732
- E: 977, 980, 3255
- Hypolipidemic agents
- C: 953, 1193, 1207, 2401, 3668, 3765, 3770, 3775, 4863(review)
- E: 2611
- Hypotensives and antihypertensives
- C: 852, 1059, 1063, 1070, 1081, 1083, 1680, 2114, 2287, 2289, 2293, 2298, 2306, 2307, 2311-2314, 2617, 3372, 3654, 3663, 3664, 3668, 3674, 4751, 4755, 4756, 4759
- G: 587, 591, 2215
- P: 361, 731
- E: 1120, 2606
- see also Adrenergic and adrenergic blocking agents

Imidazoles and related compounds

- C: 874, 1627, 2136, 3465, 3466, 3470, 3715, 4009, 4579, 4811
- P: 330
- E: 939, 1188, 1755, 1807, 3217
- see also Histamine and related substances
- Immunosuppressives and immunomodulatory drugs
- C: 968, 972, 1172, 1179, 1198, 1206, 2199, 2201, 2404, 2405, 2407, 2409, 2419, 2420, 2422, 2432, 2437, 2868, 3406, 3537, 3560, 3571, 3572, 3759, 3761, 3764(review), 3778, 4857
- G: 626
- P: 344
- E: 2610
- see also Peptide and amino acid antibiotics

Indole alkaloids

- C: 858, 1216, 4559
- G: 1577
- P: 145, 539, 715, 718

Indoles, techniques

- C: 873, 2992(review), 3462, 3463, 4573, 4574
- , applications
- C: 442(review), 821, 868, 869, 1678, 1715, 3008, 3459, 3460, 3463, 4241, 4574-4576
- G: 2142
- E: 2004

Inhibitors of enzymic activity, proteinous

- C: 596, 665, 681, 682, 686, 1984, 3143, 3244, 4469
- E: 234, 401, 418, 594, 597, 598, 600, 602, 1327, 1485, 2136, 2261, 2262

Inhibitors of enzymic activity, proteinous, structural studies

C: 522, 3099, 4362

E: 1327

—, non-proteinous

C: 162, 475, 824, 871, 926, 946, 950, 957, 959, 969, 970, 1070, 1083, 1098, 1113, 1255, 2316, 2338, 2384, 2395, 2398, 2414, 2436, 3556, 3662, 3663, 3668, 3701, 3747, 3766, 3773, 4642, 4643, 4759, 4840, 4861

P: 157, 164, 556

E: 1000, 2608, 3253

Inks

C: 2482

Inorganic compounds

C: 1264-1290, 2495-2543, 3852-3904, 4935-5014

G: 697-714, 1170-1182, 1789-1808, 2310-2322

P: 206-210, 396-400, 642-648, 761-769

E: 1009-1022, 1800-1814, 2653-2669, 3286-3309

see also Anions, inorganic; Cations, inorganic; individual types of anions and cations

—, reviews and books

C: 4968

P: 405

Insulin and analogues

C: 481, 492, 498, 1791, 1796, 3059, 3061, 3067, 3069

P: 315

E: 310, 1226, 1234, 1236, 2010, 2018, 2020

—, structural studies

C: 1844

G: 2049

Iridoid glucosides

P: 614

Iron, see Cations, inorganic, analytical group III

Isocyanates and cyanates, inorganic, see Halides and other inorganic halogen containing compounds

Isomerases

C: 811, 2072, 3399-3402, 4532, 4536

E: 604, 706-708, 787, 2355-2360, 3095, 3096

—, structural studies

C: 541

E: 1250

—, activity measurement

E: 706

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Larvicides, insecticides

C: 983, 2217, 2231, 3574, 3592, 4677, 4678

P: 348

Laxatives

G: 1457

Lead, see Cations, inorganic, analytical group I and IIa

—, organic

G: 478, 1594, 1598, 1605, 2123

E: 3222

Lectins

C: 299, 304, 307, 314, 660, 1595-1597, 1601, 2877, 4195, 4208, 4213

P: 700

E: 221, 224, 231, 238, 239, 560, 580, 1178, 1179, 1965, 1971, 2818, 2819

Lectins, structural analysis

C: 2889

E: 1180

Ligases, forming C-O bonds (E.C. 6.1.-.-)

C: 813

—, —, structural studies

C: 529

—, forming C-N bonds (E.C. 6.3.-.-)

C: 812, 815, 3131, 4533, 4534

E: 2078

—, forming C-C bonds (E.C. 6.4.-.-)

C: 814

E: 783

—, other (including E.C. 6.5.-.-), structural studies

E: 1576

Lignin compounds

C: 245, 2481, 2486, 2833, 4122, 4147, 4182

G: 149, 321, 638, 892, 1430, 1458, 1772, 2287, 2288, 2291, 2298, 2304

P: 46, 683

E: 1950, 2616

Lipids

C: 353-384, 1639-1664, 2926-2953, 4243-4253

G: 385-390, 951-957, 1498-1507, 2052-2055

P: 58-99, 263-288, 459-497, 692-703

E: 251, 1090

—, reviews and books

C: 361, 1639, 1640, 1647, 1651, 1660, 2934

G: 957

P: 468, 473

—, general techniques

C: 69, 353, 354, 359, 369, 379, 1641, 1644, 1656, 1658, 1661, 2927, 2928, 2944, 2948, 2951, 2952, 4245, 4891

G: 952, 954, 1473

P: 83, 86, 95, 266, 423, 494

—, group separation

P: 274, 284

—, applications, non-biological

C: 373, 377, 384, 1643, 1650, 1655, 1663, 2399, 2482, 2950

P: 55, 58-60, 82, 86, 90, 93, 94, 273, 287, 496, 703

—, —, microorganisms

C: 363, 4217, 4244

P: 58, 69, 76, 95, 272, 277, 474, 477, 692

—, —, plants

C: 362, 375, 1645, 1662, 1700, 1702, 2932, 4243, 4246

G: 195

P: 67, 68, 87, 267, 466, 495

—, —, blood

C: 368, 2935, 2937

P: 70, 92, 268, 470, 696

—, —, brain and nerve tissue

C: 2946, 4253

P: 62, 469, 496, 701

—, —, milk and food products

C: 355, 364, 365, 377, 378, 1648, 1649, 1654, 1693, 2936, 2938, 2952, 4250, 4252

P: 87, 281, 282, 490, 492, 495

see also Food analysis

Lipids, applications, other animal material

C: 360, 370, 2853, 2930, 2933, 2940, 2941, 2943, 2945, 2949, 4249, 4658

P: 61, 66, 71, 74, 77-79, 85, 89, 92, 131, 264, 269, 270, 274, 280, 284, 330, 448, 459, 464, 467, 469, 475, 476, 485, 488, 490, 491, 496, 693, 699

—, oxidation products

C: 366, 1646, 1656, 1672, 2837, 2937, 2971, 4247

G: 951, 1478

P: 330, 479

Lipopolysaccharides

C: 2855

E: 1190

—, structure studies

C: 356, 2939, 3144

G: 2021

P: 64

Lipoproteins (including apolipoproteins), reviews

E: 1982, 2830

—, techniques

C: 1668, 1670

E: 1198, 1985, 2831

—, applications

C: 385-390, 1665-1667, 1669, 1671, 1694, 2954-2959, 4396

P: 289

E: 252-276, 550, 1191-1202, 1979-1981, 1983-1989, 2374, 2832-2837, 2920, 2962

see also Proteins of blood, serum and blood cells

—, structural studies

C: 520

G: 913, 958, 972, 1478

Local anaesthetics, see Anaesthetics

Lubricants

C: 3841, 4930

G: 1768

Lyases, carbon-carbon (E.C. 4.1.-.-)

C: 755, 803, 805, 806, 808, 2069, 3394, 3395, 3398, 4528, 4529

E: 702, 1575, 2354, 3092, 3094

—, carbon-oxygen (E.C. 4.2.-.-)

C: 802, 804, 809, 3391, 3393, 3396, 4530, 4531, 4536

E: 1574, 1576, 3096

—, carbon-nitrogen (E.C. 4.3.-.-)

C: 807, 2856, 3392, 4530

E: 703, 2927, 3093

—, —, structural studies

C: 3096

—, other

C: 810, 2070, 2071

E: 704, 705

M

Macrolides (including erythromycine)

C: 960, 967, 2185, 2189, 2194, 2201, 2203, 2206, 2208, 3539, 3560, 3562, 3563, 3565, 3569, 4648, 4857

P: 160, 342, 344, 553

E: 1760, 2568

Magnesium, see Alkaline earths

Manganese, see Cations, inorganic, analytical group III

Medicated feeds

C: 954, 1177, 1204

Melamines

E: 2590

Mercury, see Cations, inorganic, analytical group I and IIa

—, organo-compounds

C: 3488

G: 475, 479, 1030, 1034, 1589, 1591, 1593, 1595, 1596, 1600

P: 152

Metal carbonyls

G: 1207, 1744

Mineral oils, hydrocarbons in

G: 205, 257, 259, 674, 686, 759, 879, 880, 883, 1150, 1158, 1163, 1164, 1220, 1301, 1355, 1369, 1407, 1408, 1780, 1786, 1850

see also Hydrocarbons, aliphatic; Hydrocarbons, complex mixtures; Crude oil and petroleum analysis

Mitogens, mutagens and related compounds (growth factors)

C: 1243

see also Growth factors

Molybdenum, see Cations, inorganic, analytical group IIb

Mycotoxins, other

C: 227, 229(review), 230-232, 235, 1556, 1557, 2814, 2816, 2817, 2819(review), 2820, 2821, 4130, 4131, 4133, 4134

G: 295, 893

P: 40-42, 44, 441, 442, 444, 445(review)

see also Aflatoxins

Myorelaxants

C: 2321, 2340, 2348, 2352, 3703, 3708, 3758

E: 125

N

Narcotic analgesics and antagonists

C: 2310, 2345, 2346, 2349, 2352, 2359, 4785

G: 597, 1714, 1728, 2241, 2252

Neuroleptics

C: 1104, 2343, 2355, 3692, 4773

G: 596, 1108, 1713, 2234, 2238

E: 972, 979, 1138

Neuromuscular blocking agents, see Myorelaxants; Cholinergic and cholinergic blocking substances

Nickel, see Cations, inorganic, analytical group III

Nicotinic acid and derivatives

C: 906, 916, 3528

G: 457, 1020, 1021, 1507

Niobium, see Cations, inorganic, analytical group III

Nitriles

C: 1514, 3945

G: 937, 1001, 1125, 1443, 1667, 1980, 1982, 2169

P: 425

see also Nitrogen compounds, inorganic

Nitro compounds

C: 423-425, 1087, 1381, 1418, 1707, 1710, 2301, 2653, 3985, 4281, 4282

G: 242, 428, 429, 431-434, 436, 693, 865, 961, 994-996, 998-

1001, 1153, 1550, 1552, 1554, 1832, 1859, 2083, 2086
 P: 116, 117, 177, 246, 301, 363, 407, 425, 510
 E: 1129, 1990, 1994, 2839
 see also Explosives

Nitrogen

G: 716, 1215, 1352, 1788, 1797, 1801, 1810, 2313

Nitrogen compounds, inorganic

C: 2286, 2533, 3879, 3887, 3888, 3890, 3892, 4979, 4981, 4983, 4984, 4995, 5001, 5007, 5014

G: 75, 1171, 1806

P: 397

E: 1021, 1811, 1812, 3304, 3308

see also Ammonia

Nitrogen oxides

C: 4984

G: 75, 708, 1215, 1802

Nitrosamines

C: 449, 2991

G: 435, 997, 1009, 1551, 2085, 2087

P: 432, 509

Nitroso compounds

C: 449, 1708, 2796, 4008

G: 430, 994

P: 363

E: 1992

Noble metals, see Platinum metals and gold

Nucleic acids, see DNA; RNA

Nucleosides, see Purines, pyrimidines, nucleosides, nucleotides

Nucleotides, see Purines, pyrimidines, nucleosides, nucleotides

O

Oestrogens, techniques and theory

C: 1686, 3950, 4262

P: 705

E: 1205, 2838

—, applications, non-biological

C: 2964, 2969, 4263

G: 1333, 2057

—, —, biological

C: 400, 401, 1684, 1685, 2970

G: 398

Oligonucleotides and polynucleotides

C: 176, 820, 822, 833, 2023, 2075, 2085, 2086, 2088-2090, 3414, 4540, 4549

E: 9, 712, 713, 715, 723-725, 728, 1582, 1584, 1587, 1588, 3101, 3104, 3173

Oligosaccharides

C: 248, 249, 252, 254, 256-258, 260, 263, 265, 268, 269, 271, 280, 281, 307, 356, 372, 1420, 1566, 1567, 1571, 1573, 1577, 1579(review), 1592, 1981, 2840, 2845-2847, 2851, 2853, 2855, 2858-2862, 2939, 3206, 3226, 3232, 4055(review), 4148, 4152, 4157, 4159, 4161, 4163, 4168, 4171, 4173, 4175, 4176, 4178, 4187, 4189, 4198, 4209, 4511

P: 49, 61, 80, 448, 483, 485, 686, 687

E: 196, 197, 199, 202(review), 206, 208, 230, 1168, 1169, 1171, 1960, 1962, 2789, 2792, 2794(review), 2801, 2802, 2808

Opium alkaloids

C: 857, 1119, 1184, 1212, 2109, 2115, 2117, 2121, 2359, 3454, 3680, 3681, 3709, 3786, 3798

G: 595, 603, 605, 611, 683, 1018, 1709, 1731, 2112, 2240, 2253
 P: 420, 589

E: 987

Organoleptics (flavors, volatiles, odours)

C: 1234, 1235, 1236, 1290, 1333, 2466, 3459, 4892, 4893

G: 347, 459, 564, 640-643, 645-653, 682, 683, 689, 692, 693, 718, 745, 762, 767, 804, 809, 811, 986, 989, 999, 1005, 1133, 1135, 1139-1149, 1161, 1256, 1447, 1450, 1522, 1581, 1736-1743, 1746, 1748, 1770, 1785, 2077, 2211, 2259, 2262-2271

P: 204, 632, 758

E: 2625, 3279

Organometallic compounds, reviews and books

C: 3491

G: 1603, 1609

— (other)

C: 886, 3487, 3490

G: 133, 481, 484, 1597, 1601

P: 395

E: 1105, 3160

see also Coordination compounds; Porphyrins and metalloporphyrins; Tin, organic; Ferrocenes

Oxazines

C: 2135, 2138

P: 149

E: 3211

Oxazoles and isoxazoles

C: 2639

Oxazolines

C: 4583

Oxidoreductases, acting on the C-OH group of donors (E.C. 1.1.-.-)

C: 688, 689, 691, 693-695, 702, 705, 707, 1989, 1994, 3252, 3254, 3256, 3257, 3261, 3263, 3264, 3275, 4474, 4476, 4481, 4536

E: 100, 604, 609, 618, 619, 1493, 1502, 1503, 2265, 2274, 3044, 3047-3049, 3096

—, —, structural studies

C: 1829, 4366

—, acting on aldehyde or keto group of donors (E.C. 1.2.-.-)

C: 688, 689, 696, 3284, 4478, 4479

E: 2283

—, —, structural studies

C: 3097

—, acting on CH-CH group of donors (E.C. 1.3.-.-)

C: 692, 704, 710, 2003, 3255, 3272, 3280, 4256, 4480

E: 606, 608, 617, 1492, 2272, 2280, 3046

—, —, structural studies

E: 608

—, acting on CH-NH₂ group of donors (E.C. 1.4.-.-)

C: 708, 2004, 3271, 3273, 3279

E: 613, 2282

—, —, structural studies

C: 1827

—, acting on CH-NH group of donors (E.C. 1.5.-.-)

C: 2001, 4537

E: 3097

Oxidoreductases, acting on reduced NAD or NADP as donor (E.C. 1.6.-.-)

- C: 701, 1988, 1995, 3262, 3276, 4473, 4475
- E: 605, 607, 1499, 2076, 2275, 3050

—, —, structural studies

- E: 1241

—, acting on a haem group of donors (E.C. 1.9.-.-)

- E: 1500, 2277, 2278

—, —, structural studies

- E: 1504

—, acting on H₂O₂ as acceptors (E.C. 1.11.-.-)

- C: 698, 709, 712, 1985, 1986, 3258, 3274, 3282, 3287, 3288, 4482, 4486
- E: 611, 616, 1494, 2267, 2269, 2279

—, —, structural studies

- C: 1815

—, acting on single donors with incorporation of oxygen (oxygenases) (E.C. 1.13.-.-)

- C: 1991, 1993, 1997, 1998, 3253, 3259, 3268
- E: 1498, 1501, 2271, 2273, 3052

—, —, structural studies

- C: 4363

—, acting on paired donors with incorporation of oxygen into one donor (hydroxylases) (E.C. 1.14.-.-)

- C: 690, 697, 699, 703, 1987, 1992, 1996, 1999, 2000, 2219, 3251, 3260, 3265, 3267, 3270, 3277, 3281, 3289, 4472, 4477, 4483, 4487
- E: 612, 614, 615, 1491, 1496, 1497, 1505, 2268, 2270, 2284, 2288, 3045

—, —, structural analysis

- C: 711
- E: 612

—, acting on superoxide radicals as acceptor (E.C. 1.15.-.-)

- E: 620, 1340, 1495, 2287

—, other and incompletely identified oxidoreductases (E.C. 1.99.-.-)

- C: 706, 713, 2004, 3193, 3269, 3283, 4484, 4485
- E: 618, 1506, 2266, 2286, 3051, 3054

—, —, structural analysis

- C: 1840
- E: 1506

—, activity measurements

- C: 700, 1993, 2002, 2901
- P: 481
- E: 714

Oxo compounds, general techniques

- C: 219, 1373, 1381, 1418, 2835, 4146
- P: 7, 479

—, aliphatic aldehydes and ketones

- C: 240, 1514, 1560, 1562, 1563, 1885, 2643, 2834, 2836, 2837, 4138, 4139, 4141, 4143, 4144, 4145
- G: 283, 312, 315, 316, 319, 905, 910, 913-915, 1440, 1442-1446, 1448, 1451, 1792, 2011-2015, 2293
- E: 195, 1946

—, cyclic aldehydes and ketones

- C: 241, 244, 1561, 2002, 2455, 2798, 2829-2832, 4142, 4144
- G: 212, 313, 320, 321, 904, 908, 916, 930, 1214, 1447, 1449, 1450, 2007, 2009, 2011
- P: 47, 48, 204, 238, 425, 446, 679, 758
- E: 7, 1129

Oxygen

- G: 701, 1251, 1801, 1803, 2314, 2315

P

Panthothenic acid and coenzyme A

- C: 2159, 4604

Papaveraceae alkaloids (excluding opium alkaloids)

- C: 3441

- P: 142, 326, 717

Penicillins (including carbapenem antibiotics)

- C: 165, 927, 931, 932, 934, 938, 940, 945, 952, 969, 971, 2183, 2191, 2195, 2196, 2210, 2211, 3549(review), 3552, 3559, 3570, 4634, 4635, 4637, 4647

- P: 558(review)

- E: 3224

Peptide (and amino acid) antibiotics

- C: 949, 968, 972, 2181, 2184, 2193, 2199, 2212, 2437, 3537, 3543, 3545, 3548, 3553, 3557, 3571, 3572, 4353, 4641, 4650, 4651

- P: 160, 161, 340, 551

- E: 2866

Peptides

- C: 479-518, 1774-1814, 3055-3091, 4328-4359

- G: 1571

- P: 129-133, 312-315, 524-528, 712-714

- E: 301-318, 1215-1239, 2007-2024, 2853-2869

—, reviews and books

- C: 65, 157, 3080, 3081, 4293, 4332, 4334

- E: 1232, 1879, 2857

—, techniques

- C: 482, 507, 508, 515, 523, 525, 1021, 1750, 1753, 1757, 1759, 1775-1777, 1779, 1783-1787, 1789, 1792-1795, 1797, 1800-1802, 1811, 1830, 1853, 1855, 1870, 1878, 2052, 2053, 2268, 2629, 2639, 2705, 3056-3058, 3060, 3062, 3072, 3074-3077, 3079, 3082-3084, 3090, 3109, 3120, 3125, 3954, 4313, 4328, 4333, 4338, 4340, 4342, 4344-4347, 4349, 4351, 4352, 4354, 4359

- P: 314, 518

- E: 81, 145, 151, 296, 300-302, 306, 307, 311, 312, 318, 931, 1138, 1213, 1215, 1217, 1219, 1220, 1224, 1228-1231, 1235, 1237-1239, 1249, 1264, 2007, 2009, 2013, 2015-2017, 2019, 2021-2023, 2038, 2047, 2057, 2716, 2756, 2844, 2855, 2858, 2861-2864, 2867-2869, 2874, 2882

—, —, dansyl derivatives

- C: 4527

- P: 528

—, applications, non-biological

- C: 480, 500, 502, 509, 516, 1786, 1788, 2705, 3064, 3066, 3087, 3244, 4335

- P: 315, 527

- E: 1216, 1236, 2240

—, —, microorganisms

- C: 505, 1799, 3070, 3089, 3252, 4343

- P: 132, 524, 526

- E: 2011

—, —, plants

- C: 3243

Peptides, applications, animal material

C: 293, 479, 484, 485, 491, 495, 499, 501, 503, 506, 510, 511, 514, 677, 802, 805, 1803, 1805-1810, 1814, 2053, 2169, 2420, 3065, 3068, 3071, 3078, 3086, 3091, 3199, 3387, 4330, 4336, 4348, 4351, 4353, 4356, 4358

G: 1571

P: 122, 129-131, 133, 136, 312, 313, 525, 528, 712, 713

E: 303, 304, 308, 309, 314-316, 569, 577, 653, 721, 1108, 1221, 1223, 1225, 1227, 1233, 1995, 2008, 2012, 2168, 2469, 2853, 2856, 2860, 2866

see also Hormones peptidic and proteinous; Pituitary hormones and proteins; individual types of peptide hormones

—, —, food products

C: 484, 1225, 1226, 1774, 2614, 3083, 4341, 4346, 4350

Peroxides

C: 239, 391, 1158, 1559, 1635, 1653, 1656, 1658, 1671, 1672, 2641, 2960, 2896, 2929, 3616, 4137, 4254

G: 428, 961, 2056

P: 100, 187, 479

Pesticides

C: 975-995, 2215-2233, 3574-3593, 4654-4678

G: 496-551, 1043-1079, 1618-1671, 2132-2192

P: 165-167, 347-351, 563-574, 723-727

E: 946-948, 2587-2589, 3225-3228

—, reviews and books

C: 981, 1241, 4656, 4664, 4895

G: 496, 2133, 2145

P: 165, 723

—, techniques and complex mixtures

C: 77, 108, 155, 975-980, 982, 1239, 2215-2217, 2233, 2470, 3574-3584, 3824, 3826, 4654, 4655, 4657, 4658, 4672, 4902

G: 171, 497, 499-506, 509, 513, 528, 537, 813, 822, 1043-1048, 1051, 1056, 1067, 1069, 1078, 1156, 1305, 1312, 1618-1632, 1653, 1753, 1755, 1929, 2132, 2134, 2136, 2138-2141, 2143, 2144, 2154, 2186, 2189

P: 233, 347, 423, 563-566, 724, 725

E: 946, 3225, 3226

—, carbamates

C: 3575, 3585, 4665

G: 466, 532, 533, 1062-1065, 1657, 2165-2167, 2170, 2250

P: 348

—, chlorinated

C: 1540, 1548, 2218, 2219, 3575, 4655, 4659-4663, 4664 (review)

G: 35, 134, 232, 241, 507, 508, 511, 512, 514-524, 877, 898, 902, 1049, 1050, 1052-1054, 1057, 1068, 1633-1649, 1863, 1867, 1957, 2146-2153, 2155, 2156

—, phosphorus

C: 983-985, 2221, 3575, 4661

G: 63, 142, 498, 525, 526, 529-531, 1058-1062, 1341, 1650-1652, 1654-1656, 1926, 2135, 2156-2164

P: 166, 567-569, 726

Petroleum hydrocarbons, see Mineral oils, hydrocarbons in

Pharmaceutical applications

C: 1039-1221, 2261-2459, 3621-3805, 4701-4888

G: 569-636, 1088-1130, 1687-1734, 2207-2256

P: 169-203, 357-389, 580-631, 730-757

E: 952-989, 1770-1787, 2596-2616, 3235-3274

Pharmaceutical applications, reviews and books

C: 65, 102, 157, 159, 1051, 1606, 2270, 2272, 2341, 2469, 3623, 3631, 3634, 3675, 3764, 3971, 4030, 4033, 4701, 4705, 4709, 4714, 4720-4722, 4727, 4856

G: 1092, 2207

P: 1, 3, 213, 661-663

E: 5, 965, 1028, 1097, 1773, 1776, 1777, 1788, 1917, 2597, 2600, 2671, 3237, 3239, 3241

—, synthetic drugs, general techniques

C: 99, 133, 136, 162, 328, 956, 1039-1050, 1398, 1399, 1501, 1725, 2261-2269, 2271, 2273-2278, 2575, 2613, 2722, 2727, 2741, 2748, 3621, 3622, 3624-3630, 3632, 3633, 3635, 3780, 3781, 3790, 3831, 4020, 4072, 4075, 4078, 4084, 4086, 4087, 4089, 4702-4704, 4706-4708, 4710-4713, 4715-4719, 4723-4726, 4728-4730, 4870, 4872, 4889, 4902

G: 572, 624, 869, 1091, 1122, 1610, 1687, 1691, 2208, 2210

P: 13, 15, 18, 31, 169, 172, 357-359, 580, 581, 673

E: 4, 153, 167, 952-964, 981, 1133, 1770-1772, 1774, 1775, 1778, 1929, 1931, 2580, 2596, 2598, 2599, 2601-2603, 2762, 2767, 3235, 3236, 3238, 3240, 3242-3244

—, systematic analysis and screening programs

G: 448, 595, 603, 1090, 1093, 1094, 1692

—, complex mixtures

G: 635, 1720

—, auxiliary compounds (excipients)

C: 2921

G: 348, 371, 1000, 1088, 1102, 1419, 1679

Pharmaceutical and cosmetic dyes

C: 996, 998, 1000, 3595, 4679, 4680

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Phenols, theory

P: 411, 438, 681

—, techniques

C: 212, 214, 215, 326, 425, 1367, 1381, 1418, 1525, 1549, 2792, 2798, 4120, 4565

G: 1427

P: 30, 238, 412, 425, 438, 439, 680, 729

E: 184, 186, 1164, 1165, 1915, 1947, 1948, 2782, 2784, 2826

—, applications

C: 208-211, 213, 215-218, 326, 1209, 1228, 1547, 1548, 2653, 2767, 2774, 2793-2795, 2797, 2799-2801, 2825, 2833, 3000, 3799, 3804, 3823, 3825, 4121, 4123, 4124, 4155, 4823

G: 103, 232, 273, 284, 285, 287-293, 364, 865, 888-891, 1161, 1214, 1423-1426, 1428, 1429, 1784, 1993-2000

P: 260, 394

E: 187, 1947, 1950, 2628, 2783

Pheromones

G: 32, 43, 375, 460, 1026, 1316, 1433, 2065

Phospholipids

C: 353, 357, 362, 363, 367, 370-372, 379, 381, 389, 469, 915, 1642, 1650, 1653, 1657, 1664, 2142, 2143, 2493, 2926, 2929, 2930, 2931, 2935, 2941, 2942, 2945-2947, 2949, 3477, 4244, 4249, 4251

G: 391, 945, 959

P: 32, 55, 66, 67, 70, 71, 73, 74, 76-78, 80, 81, 88, 92, 96, 131, 268-270, 279, 280, 284, 285, 287-289, 459, 460, 463, 464, 467, 469, 472, 474, 476-478, 482, 485, 486, 488, 489, 491, 493, 497, 692, 694

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- Phosphorus compounds, inorganic
 C: 3892, 3901, 4978, 4983, 4998, 5001, 5007, 5009
 G: 713, 1804, 2322
 E: 1811, 1812, 3307
- , organic, techniques
 C: 1202
 G: 82, 472, 473
 E: 3307
- , —, applications
 C: 356, 417, 469, 532, 540, 550, 571, 625, 827, 882-884, 1642, 1741, 1775, 2075, 2092, 2142, 2143, 2926, 2929-2931, 2939, 2942, 2945, 2949, 3077, 3417, 3477-3485, 4251, 4272, 4541, 4592-4594, 4860
 G: 471, 474, 527, 680, 1588
 P: 122, 120, 127, 133, 136, 279, 312, 315, 335, 336, 459, 519, 520, 525, 530, 546, 710, 712, 713
 E: 282, 294, 308, 309, 316, 395, 396, 443, 486, 532, 577, 632, 636, 642, 721, 941-943, 1215, 1221, 1236, 1305, 1357, 1582, 1757, 1859, 2013, 2022, 2080, 2099, 2168, 2365, 2845, 2853, 2856, 2860, 2916, 2918, 2960, 2965, 3005, 3017, 3060, 3099
 see also Purines etc.; Phospholipids
- Pigments natural (and fluorescent substances)
 C: 897, 912(review), 919, 1001, 1003-1007, 1009, 2152, 2153, 2160, 2236, 2237, 2241, 2243, 3514, 3518(review), 3519(review), 3520(review), 3527, 3596-3601, 3803, 4127, 4614, 4617, 4619, 4621, 4682, 4683, 4685, 4686, 4687, 4689, 4879
 P: 579
 E: 573, 2590, 2591, 3225
- Piperazines
 C: 1225, 2431, 3057
- Pituitary hormones and proteins
 C: 486, 489, 496, 503, 512, 517, 518, 730, 1781, 1782, 1813, 3055, 3073, 4337
 E: 2865
- Plant extracts, reviews and books
 C: 3764
 P: 657
- , applications
 C: 217, 225, 419, 1216-1221, 1521, 1553, 1554, 1558, 1609, 1704, 2448-2459, 2805, 2827, 2882, 2979, 2982, 3785, 3789, 3799-3805, 3813, 4094, 4136, 4185, 4276, 4561, 4562, 4565, 4842, 4867, 4879-4888
 P: 19, 48, 112, 126, 141-143, 146, 150, 194-203, 241, 253, 260, 321, 322, 326, 327, 375-389, 429, 500, 503, 537, 610-631, 707, 716, 718, 748-757
 E: 188, 932, 1127, 1787, 2615, 2616, 3213, 3274, 3276
- Plasticizers, stabilizers (including other additives)
 C: 424, 2244, 2247, 3617, 4695
 G: 678, 803, 812, 885, 1766, 2284
 P: 356
- Plastics and other synthetic polymers (including intermediates)
 C: 1012-1038, 2244-2260, 3603-3620, 4690-4700
 G: 2193-2206
 P: 356
 E: 1766-1769, 2592-2595, 3232-3234
- , reviews and books
 C: 6, 1375, 2252
 G: 1029
- , techniques and theory
 C: 26, 1013-1016, 1018, 1020, 1021, 1025, 1028, 1029, 1036-1038, 1343, 1344, 1349, 2248, 2249, 2251, 2253, 2255, 2257, 2259, 2260, 2680, 3604, 3605, 3609-3612, 3614-3619, 4691, 4694, 4698, 4700
 G: 563, 1084
 E: 1045, 1766-1768, 1880, 2595, 2705, 3233, 3234
 see also individual types of plastics
- Platinum metals and gold
 C: 2385, 2496(review), 2524, 2528, 2529, 3877, 3886, 4958, 4960
 E: 2579, 3293
- Polyamides, polyimides and their intermediates
 C: 4692, 4693, 4699
 G: 1681, 2201
 E: 2593
- Polyamines, see Amines, polyamines and their derivatives
- Polycarbonates
 C: 1022
 G: 1682
- Polyene antibiotics
 C: 3551
- Polyether antibiotics
 C: 937, 965, 3540, 4646
- Polyethers
 G: 554
 E: 2594
- Polynucleotides, see Oligo- and polynucleotides
- Polyolefins
 C: 1023, 2245, 2246, 2250, 3628
 G: 22, 45, 564, 1082, 1672, 1676, 1678, 1685, 1765, 2197
- Polyoxyethylene and related polymers (inclusive pyrolysis products)
 G: 42, 556, 559, 1083, 1834, 2203
- Polysaccharides and their constituents
 C: 276, 279, 282-284, 286, 287, 296, 1582-1590, 2863, 2866, 2868, 2872-2974, 3139, 3818, 3968(review), 4173, 4179, 4180, 4182, 4184, 4186, 4190, 4193, 4194
 G: 1176, 1457
 P: 452
 E: 216, 217, 1174, 1176, 1352, 2807
 see also Starch components
- , structural studies
 C: 278, 287, 1232, 4149, 4183, 4185, 4186, 4193
 G: 638, 925
 E: 211, 2807
- Polyurethanes, see Urethanes and polyurethanes
- Porphyrins and metalloporphyrins
 C: 860-866, 2128-2130, 2240, 3456-3458, 4566-4570
 G: 1019
 P: 10, 328
 E: 934, 1763
- Potassium, see Alkali metals
- Pregnane derivatives, techniques
 C: 399, 1677, 2967, 4260
 P: 292, 294
 E: 277, 278
- , applications, non-biological
 C: 393, 394, 1681, 1682, 2964, 2965, 3754, 4258, 4259, 4737
 P: 103, 293
- , —, biological
 C: 395, 397, 1676, 1679, 1680, 1683, 2961, 2968, 3648, 3819, 4257, 4261

- G: 393, 964, 968, 1508, 1511, 1513
P: 704
- Propellants
C: 56, 1709
G: 1375
P: 300, 511
E: 1991
- Prostaglandins and thromboxanes
C: 317, 325, 349-352, 1636-1638, 1993, 2922, 2923-2925, 4079, 4242
G: 950, 1497, 1611, 2050, 2051
P: 57, 262, 458
- Protamines, histones and other nuclear proteins (including chromatin proteins)
C: 620, 794, 1945, 1946, 4434, 4435, 4508
E: 488-496, 1409-1412, 1738, 2176-2180, 2554, 2987-2989
- , —, structural studies
C: 650, 4374
- Proteins
C: 542-686, 1847-1984, 3109-3249, 4375-4470
P: 316
E: 323-603, 1251-1489, 2033-2263, 2874-2942
- , reviews and books
C: 1301, 1471, 1479, 1518, 1817, 1856, 1876, 1895, 1914, 2971, 3123, 3129, 3968, 4055, 4101, 4332, 4361, 4377, 4378, 4385, 4388, 4389, 4398, 4441, 4714
P:
E: 346, 453, 1244, 1270, 1281, 1369, 1370, 1818, 1868, 1879, 1922, 2034, 2042, 2043, 2049, 2065, 2114, 2128, 2151, 2157, 2212, 2618, 2671, 2726, 2732, 2741, 2885, 2887, 2894, 2898, 2936, 3038
- , general techniques
C: 84, 104, 542-567, 602, 636, 659, 684, 1419, 1451, 1463, 1466, 1475, 1480, 1516, 1750, 1796, 1847-1855, 1857-1875, 1877-1886, 2052, 2571, 2629, 2649, 2684, 2758, 3039, 3084, 3109-3122, 3124-3128, 3130, 3218, 3225, 3814, 3928, 4016, 4093, 4375, 4376, 4379-4384, 4386, 4387, 4390, 4399, 4402, 4418, 4960
E: 17, 28, 60, 64, 75, 77, 84, 85, 131, 151, 175, 179, 286, 323-345, 347-353, 494, 554, 1076, 1077, 1083, 1084, 1091, 1104, 1113, 1133, 1136, 1159, 1208, 1251-1269, 1271-1280, 1282-1287, 1838, 1861, 1866, 1875, 1877, 1888, 1890, 1899, 2033, 2035-2041, 2044-2048, 2050-2064, 2066-2074, 2084, 2181, 2384, 2482, 2648, 2659, 2674, 2676, 2699, 2700, 2765, 2772, 2774, 2776, 2872, 2874-2884, 2886, 2888-2893, 2895-2897, 2899, 3019, 3140, 3147, 3293
- see also Glycoproteins, lipoproteins
- , —, sequence and structural studies
C: 58, 89, 535, 1766, 1768, 1817(review), 1819, 1821, 1825, 1830, 1852, 1855, 3090, 3100, 3101, 3107, 3108, 3968(review), 4340, 4361(review), 4369, 4371, 4372, 4398(review)
G: 638
E: 112, 321, 349, 1230, 1244(review), 1246, 1247, 1249, 2026, 2027, 2029, 2047, 2057, 2872, 2873, 2884, 2894(review), 3019
- see also structural studies on individual categories of proteins
- , cells, subcellular particles and viruses (including ribosomal proteins)
C: 568-577, 1597, 1887-1891, 2058, 3131-3135, 4391-4395, 4464
E: 354-385, 397, 398, 399, 457, 471, 532, 599, 622, 685, 686, 1007, 1288-1315, 1324, 1334, 1342, 1355, 1371, 1548, 1627, 1749, 1970, 2072, 2075-2103, 2108, 2150, 2234, 2245, 2478, 2900-2919, 2925, 3042, 3123, 3176, 3208
- Proteins, cells, subcellular particles and viruses, structural studies
C: 4371
E: 322, 380, 2913, 2919
- , synthesized by gene manipulation
C: 578-580, 1780, 1791, 1817(review), 1857, 1878, 1892-1894, 1895(review), 1896-1899, 1913, 1968, 1970, 1974, 2017, 2061, 3059, 3067, 3069, 3136-3138, 3271, 4355, 4396, 4397, 4399-4402, 4444, 4458, 4714(review)
E: 221, 371, 386-404, 432, 567, 609, 629, 689, 739, 757, 786, 807, 927, 1226, 1282, 1302, 1316-1328, 1349, 1353, 1361, 1369(review), 1417, 1456, 1471, 1522, 1536, 1563, 1597, 1723, 2028, 2086, 2102, 2104-2111, 2150, 2182, 2231, 2268, 2302, 2404, 2446, 2859, 2920-2927, 2974, 3061, 3167
- , microbial and plant proteins (including proteins of foods of plant origin)
C: 305, 578, 581-594, 661, 662, 688, 1900-1911, 1951, 1972, 3140-3152, 3187, 3239, 3240, 4401, 4403-4412, 4437
E: 368, 369, 381, 386, 405-438, 566, 839, 858, 994, 1158, 1329-1356, 1465, 1466, 1957, 2066, 2104, 2109, 2112, 2113, 2114(review), 2115-2127, 2128(review), 2129-2136, 2395, 2623, 2907, 2928-2935, 2936(review), 2937-2948, 3293
- , —, structural studies
C: 524, 1911, 3105
E: 437, 1342
- , of blood serum and blood cells
C: 539, 595-614, 1404, 1858, 1878, 1882, 1898, 1912, 1913, 1914(review), 1915-1931, 1933-1935, 1948, 1950, 2713, 3138, 3153-3177, 3186, 3189, 3192, 3197, 3198, 3229, 3351, 4205, 4354, 4387, 4400, 4413-4429, 4442, 4490
P: 316
E: 85, 223, 279, 329, 334, 370, 391, 439-452, 453(review), 454-467, 586, 988, 1269, 1357-1368, 1369(review), 1370(review), 1371-1387, 1413, 1416, 1561, 1793, 1966, 2059, 2100, 2106, 2137-2150, 2151(review), 2152-2155, 2186, 2223, 2327, 2835, 2836, 2949-2974, 2990, 2999, 3028, 3045, 3060, 3101, 3275
- see also Lipoproteins; Chromoproteins and metalloproteins; Specific binding proteins (receptors)
- , —, structural studies
C: 539, 1822, 1842, 1932, 3176, 4368, 4425, 4426
E: 1375, 1388, 2965, 2966
- , structural proteins (except contractile elements)
C: 618, 619, 1313, 1938, 1940, 1941, 1943, 3179, 3183, 3184, 4432, 4433
E: 76, 468, 470, 471, 475-477, 480, 481, 485-487, 1389, 1392, 1394, 1397, 1400, 1402, 1407, 1408, 2158, 2159, 2161-2163, 2170-2172, 2174, 2589, 2705, 2975, 2977, 2979, 2981, 2982, 2984, 3276
- , —, structural studies
C: 540, 617
E: 477, 1404, 1408
- , of brain, nerves, cerebrospinal fluid and eye
C: 647-653, 658, 1964, 2492, 3157, 3216-3221, 3315, 4455, 4456
E: 371, 519-527, 551, 573, 1427-1436, 2201-2211, 2212(review), 2214, 2732, 2979, 3014-3018

- Proteins, of brain, nerves, cerebrospinal fluid and eye, structural studies
 C: 526, 530, 1834, 3222
 E: 2031, 2213
 For eye pigments see Pigments natural (and fluorescent substances)
- , of muscle and meat products (including related contractile proteins)
 C: 615, 616, 1936, 1937, 1939, 1942, 1944, 2719, 3132, 3178, 3180-3182, 3185, 3387, 4430, 4431
 E: 469, 472-474, 478, 479, 482-484, 663, 994, 1390, 1393, 1395, 1396, 1398, 1399, 1401, 1403, 1405, 1406, 1452, 1468, 2156, 2157(review), 2160, 2164-2168, 2173, 2175, 2899, 2976, 2978, 2980, 2983, 2985, 2986, 3039
- , —, structural studies
 C: 3098, 3102
 E: 1240, 1245, 1391, 2169
- , of glands and gland products (except mammary gland), various zymogens
 C: 639-641, 643, 645, 1896, 1955, 1957, 1959-1961, 3205, 3210-3212, 3214, 4207, 4447-4449
 E: 374, 508, 510, 511, 514, 516-518, 538, 539, 584, 675, 757, 1325, 1421, 1423, 1424, 2188, 2191, 2193, 2197-2200, 2404, 2915, 3000-3006, 3008, 3012, 3013, 3026
- , —, structural studies
 C: 1956
- , of milk
 C: 484, 596, 637, 642, 644, 1963, 3202, 3213, 3215, 4204, 4206, 4336, 4450, 4453
 E: 220, 512, 515, 1253, 1422, 1425, 1558, 2190, 2194-2196, 2815, 3007, 3011
- , —, structural studies
 C: 1824, 3095
 E: 220, 2025, 2032, 2190
- , of eggs
 C: 678, 1981, 2049, 3116, 3245, 3249, 4000
 E: 595, 603, 1253, 1488, 1489
- , —, structural studies
 C: 3106
- , urinary
 C: 600, 1977-1980, 3242
 E: 586, 592, 593, 1480-1483, 2253-2259, 2817, 3038(review), 3039
- , —, structural studies
 C: 1833, 4370
- , from neoplastic tissue
 C: 654, 1965, 3223, 4457, 4458
 E: 391, 470, 528-539, 1314, 1437-1443, 1619, 2110, 2198, 2215-2219, 2229, 3008, 3019-3023, 3042, 3101
- , —, structural studies
 C: 655, 4371
 E: 3019
- , complex mixtures and incompletely specified proteins
 C: 517, 679, 680, 683, 684, 1982, 2049, 3246, 3247
 E: 576, 596, 599, 1484, 1486, 1488, 2040, 2199, 2260, 2263, 2623, 3040-3042
- , —, structural studies
 C: 1835, 4371
- Psychostimulants
 C: 1117, 1212, 2310, 2331, 2333, 3684, 3702
 G: 438, 599, 605, 612, 616, 627, 1104-1106, 1111, 1116, 1696, 1708, 1712, 1722, 1732, 2228, 2229, 2249, 2252
 E: 2768, 3263
- Psychotropic drugs
 G: 438, 600, 1108, 1729, 2221, 2246
 P: 179
- Purine alkaloids (xanthines)
 C: 851, 853, 856, 2110, 2112, 2113, 2292, 3449, 3450, 3679, 3688, 3810, 4556, 4558, 4730, 4745
 P: 144, 236, 325
 E: 1753, 2577
- Purines, pyrimidines, nucleotides, nucleosides
 C: 818-841, 2073-2100, 3405-3428, 4538-4549
 G: 451-453, 1012, 1572-1574, 2103
 P: 134-139, 317, 318, 529-534
 E: 712-731, 1582-1590, 2363-2369, 3098-3104
- , reviews
 C: 65, 157, 426, 3423, 4055
 E: 2367
- , techniques
 C: 839, 840, 1420, 2074, 2076, 2077, 2080, 2086, 2088, 2091, 2093, 2095, 2994, 3410, 3411, 3413, 3420, 3424, 3470, 3483, 4538, 4541, 4548
 G: 452, 453, 1012
 P: 317, 318, 335, 530, 532, 533
 E: 151, 716, 717, 722, 730, 731, 1585, 1590, 1926, 2063, 2363-2366, 2368, 2369, 2528, 2642, 2729, 3099
- , analogues of purines, pyrimidines, nucleotides and nucleosides
 C: 823, 827, 831, 832, 834, 838-840, 1092, 1166, 1243, 2073, 2077-2079, 2082, 2084, 2092, 2094, 2096, 2099, 2100, 2106, 2382, 2391, 2435, 3405, 3406, 3409, 3412, 3416, 3425, 3721, 3727, 3742, 3748, 4832, 4834
 P: 137, 350, 529, 749
 E: 714, 718, 729, 1586, 3098, 3102
- , applications, non-biological
 C: 818, 823, 829, 835, 882, 2092, 3419, 4544, 4547
 P: 134, 139, 531
 E: 719, 727, 1586, 3098
- , —, enzymic
 C: 824, 3417, 3422
 E: 823, 3093
- , —, microorganisms
 C: 836, 837, 3415, 4546
 P: 138, 530
 E: 726, 3098
- , —, plants
 C: 3409, 3416, 3418
 P: 135, 749
- , —, animal material
 C: 819, 823, 825, 826, 828, 830, 834, 841, 2083, 2087, 3407, 3412, 3421, 3426, 3427, 4539, 4542, 4543, 4545
 G: 451, 1572, 1574, 2103
 P: 136, 534
 E: 718, 720, 721, 727, 1589, 1606, 2488, 3100, 3103
- , —, food products
 C: 821, 2091, 3428
- Pyrane derivatives
 C: 3776

Pyrazines

- G: 1025, 1581, 1721, 1736
 P: 147, 329
 see also Diazines

Pyrethrins (and other natural insecticides)

- C: 993, 2230, 2231
 G: 1071, 1076, 1077, 1341, 1659, 1666, 1669, 1701, 2176,
 2190-2192
 P: 574

Pyridine and piperidine derivatives

- C: 104, 870, 1178, 2134, 3932, 4577
 G: 458, 1580
 P: 329
 E: 203, 935, 936, 3216

—, carboxylic acids

- C: 1178, 2132-2134
 E: 2739

see also Nicotinic acid and derivatives

Pyridoxine, see Vitamins, B₆ group

Pyrimidines, see Purines, pyrimidines, nucleosides, nucleotides

γ-Pyrone derivatives, see Flavonoids and γ-pyrone derivatives

Pyrroles, pyrrolidines and pyrrolidones

- C: 867, 872, 1494
 G: 1203
 P: 332

see also Bile pigments; Porphyrins and metalloporphyrins

Pyrrolizidine and pyrrolizide alkaloids

- C: 3448
 G: 454
 P: 321, 716
 E: 3214

Q

Quinoline and isoquinoline alkaloids

- C: 4094, 4554, 4563

Quinolines and isoquinolines

- C: 873, 976, 1373, 2137, 3467, 3468, 4319, 4880
 G: 1024, 1582, 2119
 P: 147, 329, 366, 380

Quinolizidine alkaloids

- C: 855

Quinones

- C: 194, 246, 905, 2370, 2817, 2827, 2828, 3799, 4142, 4879
 P: 442, 447, 682

R

Radioactive and other isotope compounds

- C: 1273, 1291, 2265, 2544, 2545, 2828, 3866, 3905, 3906, 4301,
 4819, 4944, 4953, 4961
 P: 13, 211, 212, 258, 319, 357, 401-403, 588, 649-654, 770-773
 E: 1069, 2656, 2670

Radiopharmaceuticals

- C: 2434
 P: 654

Radioprotective agents

- C: 2428

Rare earths

- C: 1279, 1284, 1296(review), 2499, 2503, 2723, 3868, 3869,
 3874, 4942, 4955, 4957, 4975
 G: 490, 1170
 P: 216(review), 398-400, 766
 E: 1012, 1016, 1141, 1801, 1805, 3288

Rauwolfia alkaloids

- C: 852, 4555
 P: 718

Repellents, see Larvicides, insecticides

Resins, aminoaldehyde

- C: 1014

—, phenolic

- G: 1085

—, polyester

- C: 1019, 1025

- G: 1673, 1686, 1768

—, polyethylene and polypropylene glycols

- C: 1027, 1031, 1032, 1197, 2254, 4691, 4696, 4697

- G: 2199

—, poly(vinyl acetate)

- C: 3607

—, poly(vinyl chloride)

- G: 249, 293, 558, 1685

—, poly(vinylidene fluoride)

- G: 1219

—, poly(vinylpyrrolidone)

- G: 555

see also Acrylic resins; Epoxy resins; Polyolefins; Rubber (natural and synthetic); Styrene polymers

RNA, reviews

- C: 1876

- E: 748, 1095, 1868, 2390, 2501, 2726, 2741

—, techniques

- C: 104, 844, 2088, 3429, 3430, 3433, 3992, 4550

- E: 92, 711, 756, 1600, 1662, 1865, 1939, 2050, 2382, 2383,
 2385, 2388, 2389, 2391, 2395, 2407, 2421, 2674, 3106, 3112,
 3132

—, applications, non-biological applications (*in vitro* processing)

- C: 3413

- E: 377, 379, 393, 663, 668, 732, 734, 737, 739, 741, 742, 746,
 747, 750, 751, 753, 754, 758, 760, 762, 763, 767, 769, 771-
 774, 776, 779, 780, 782, 786, 798, 801, 807, 857, 913, 1192,
 1314, 1438, 1529, 1592, 1593, 1596, 1597, 1599, 1601, 1604,
 1605, 1608, 1612, 1616-1621, 1624-1626, 1629, 1630, 1633-
 1637, 1639-1642, 1749, 2090, 2093, 2370, 2375, 2376, 2379,
 2392, 2393, 2397, 2399, 2401, 2404, 2405, 2408-2410, 2412-
 2415, 2417-2419, 2422, 2424, 2436, 2455, 2457, 2484, 2523,
 2567, 3107, 3109, 3110, 3113-3116, 3118, 3120, 3121, 3123,
 3141

—, —, microorganisms

- C: 843, 3434, 4551

- E: 784, 823, 1594, 1614, 1622, 1623, 1628, 2376, 2377, 2400,
 2402, 2441, 3112, 3194

—, —, plants

- C: 1908, 3418

- E: 735, 738, 758, 765, 804, 1598, 1638, 2372, 2406, 2425

RNA, applications, animal material

C: 842, 3431, 3432

E: 273, 374, 388, 515, 516, 561, 572, 576, 603, 733, 736, 737, 740, 743-746, 749, 755, 757, 759, 761, 762, 764, 766, 768, 770, 775-779, 781-783, 801, 826, 922, 1595, 1597, 1602, 1603, 1606, 1607, 1609-1613, 1615, 1627, 1631, 1632, 1636, 1656, 1691, 2279, 2371, 2373, 2374, 2378, 2380, 2381, 2384, 2386, 2387, 2394, 2396, 2398, 2403, 2404, 2411, 2412, 2416, 2420, 2422, 2423, 2516, 2527, 2558, 2925, 3004, 3105, 3108, 3109, 3111, 3113, 3117, 3119, 3122, 3167, 3192, 3200

—, structural studies

P: 320

E: 759, 772, 779, 852-859, 1692-1697, 2376, 2420, 2498-2500, 2501(review), 2502, 2561, 3172

Rodenticides

C: 991, 4674

G: 440

Rubber natural and synthetic (inclusive pyrolysis products)

C: 2256

G: 489, 568, 1086, 2202

Rubidium, see Alkali metals

S

Saponins and sapogenins

C: 217, 2448, 2450, 2455, 4276

G: 2074

P: 110, 111, 376, 707

Selenium compounds, inorganic, see Cations, inorganic, analytical group IIb

—, organic

C: 459, 3489, 3492, 3854

G: 486, 1032, 1036, 2096, 2125, 2316

Sexual attractants, see Pheromones

Sialic acids, see Glycosaminoglycans

Silicium compounds, inorganic

C: 3902

G: 48, 742

—, organic

C: 2146

G: 566, 1038, 1084, 1607, 1608, 1930, 2126, 2129, 2194, 2204

Silver, see Cations, inorganic, analytical group I and IIa

Snake venoms, see Venoms, snake

Sodium, see Alkali metal

Soil pollution

C: 333, 423, 430, 989, 1246, 1247, 1248(review), 1537, 1734, 2222, 2224, 2764, 2773, 2786, 3827, 3857, 4149, 4667, 4911, 4980

G: 183, 205, 230, 243, 285, 328, 462, 471, 480, 482, 518, 521, 535, 550, 655, 672, 674, 851, 856, 864, 881, 946, 993, 1030, 1055, 1058, 1066, 1069, 1150, 1156-1158, 1221, 1358, 1367, 1391, 1397, 1413, 1425, 1426, 1606, 1629, 1642, 1652, 1759, 1852, 1904, 1944, 1959, 1983, 1984, 1989, 2019, 2122, 2123, 2151, 2183, 2185, 2192, 2281, 2297

P: 33, 116, 240, 543, 571

E: 2630, 2662, 3227

see also individual polluting compounds

Spasmolytics

C: 1084, 1088

G: 416, 590, 992, 1127, 2214

Specific binding proteins (receptors)

C: 142, 570, 621, 657-677, 793, 1177, 1476, 1592, 1891, 1916, 1964, 1966-1976, 2878, 3168, 3224-3241, 3249, 3302, 3315, 4435, 4459-4468, 4510

E: 262, 357, 366, 390, 458, 540-591, 780, 927, 1301, 1306, 1314, 1434, 1444-1479, 2081, 2105, 2220-2252, 2259, 2399, 2648, 2933, 3024-3037, 3119, 3121, 3122

—, structural studies

C: 519, 656, 667, 1820, 1823, 1826, 1839, 1845, 4460

E: 581, 1248

Sphingolipids (sulfatides, gangliosides, ceramides, cerebrosides)

C: 358, 370, 371, 374, 376, 380, 382, 383, 1577, 2940, 2953(review), 4248, 4253

P: 58, 61, 63, 65, 69, 72, 78, 84, 91, 96-99, 263, 265, 271, 275, 278, 284, 286, 461, 465, 469, 474, 475, 477, 480, 483, 484, 487, 494, 496, 695-698, 701, 702

E: 251, 1955

Stabilizers, see Plasticizers and stabilizers

Starch components

C: 30, 291, 1584, 3475, 4176

G: 369

E: 1173, 2578

see also Polysaccharides

Steroid alkaloids

C: 4553

Steroids

C: 392-413, 1673-1698, 2961-2981, 4255-4273

G: 392-405, 962-979, 1508-1521, 2057-2063

P: 101-109, 290-297, 498, 499, 704-706

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E: 1513, 2436, 3167
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C: 916, 2166, 3501

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