

## Electrophoresis

- Acrylamide-glycosamine copolymer gels 1662
- Affinity electrophoresis 50, 845-847, 1168, 1886, 1986, 2241, 2902  
 — —, capillary 103, 266, 844, 1449, 1894, 2371, 3126, 3132  
 — —, —, gel 1449, 2385  
 — —, —, model 1894  
 — —, membrane 846  
 — —, preparative 846  
 — —, two-dimensional 2007, 2769  
 see also Immunoaffinity electrophoresis
- Affinoblotting see Blotting techniques; Electroblotting; Immunoblotting
- Agarose-formaldehyde see Formaldehyde-agarose gel  
 — gel, pore size 2446  
 — —, porosity 816
- Agarose, divinylsulphone cross-linked 2760
- Amido black staining 246
- Ammonia-silver staining method see Silver stain procedures
- Asymmetric field inversion electrophoresis see Field inversion electrophoresis and other types of field inversion
- Automation 186, 187, 305, 648, 781, 792, 795, 830, 831, 843, 1442, 1578, 1613(review), 1643, 1695, 1714, 1725, 1780, 1873, 1891, 2294
- Blotting techniques 29, 139, 145, 160, 200, 214(review), 216, 248, 250, 316, 348, 355, 381, 408, 425, 426, 429, 466, 475, 498-500, 503, 508-511, 513-519, 524-527, 529-531, 536, 537, 539, 543-545, 549, 551, 552, 554, 557, 559, 572, 576, 577, 580, 589, 601, 603, 604, 610, 611, 614, 632, 634, 640, 643, 657, 663, 669, 684, 696, 700, 702, 811, 1078, 1085, 1088, 1095, 1096, 1105, 1116, 1302, 1307, 1309, 1338-1340, 1342, 1347, 1349, 1350, 1358, 1360, 1365, 1375, 1376, 1379, 1380, 1388, 1395, 1416, 1426, 1443, 1649, 1802, 1804, 1916, 1918, 1920, 1951, 1979, 1985, 2004, 2014, 2021, 2049, 2053, 2061, 2062, 2067, 2078, 2097, 2104, 2109, 2133, 2159, 2184, 2188, 2189, 2190, 2192, 2197, 2198, 2200-2202, 2204-2206, 2210, 2213, 2216, 2218, 2225, 2247, 2255, 2257, 2262, 2265, 2269, 2292, 2302, 2324, 2559, 2636, 2682, 2702, 2713, 2718-2721, 2741, 2755, 2757, 2758, 2780, 2806, 2813, 2821, 2853, 2862, 2865, 2876, 2877, 2880-2882, 2892, 2893, 2940, 2941, 2943-2945, 2949, 2952, 2956, 2959, 2960, 2962, 2964-2966, 2968, 2971, 2976-2980, 2985, 2986, 2997, 3003, 3004, 3010, 3023, 3025, 3033, 3048, 3059, 3062, 3080, 3167  
 see also Electroblotting; Immunoblotting
- —, centrifuge 1858  
 — —, vacuum 696
- Books (and symposia proceedings) on electrophoresis 877, 1611, 1615
- Capillaries, reviews 1707, 2495, 2518
- Capillary array electrophoresis 785  
 —, coating 27, 89, 819, 865, 880, 901, 986, 999, 1080, 1084, 1160, 1527, 1541, 1571, 1849, 1896, 1914, 2495(review), 2500, 2656, 2665, 3184  
 —, coiling 875  
 —, diameter 1707(review)  
 —, hollow fiber 1660
- Capillary, packed 852  
 —, plastic 67, 3189  
 —, review 1707  
 —, surface modifiers 98  
 —, —, probing 98  
 —, technology 67, 783, 852
- chromatography, micellar, applications 33, 93, 103, 128, 129, 131, 164, 165, 262, 705, 707, 710, 715, 725, 726, 733, 734, 736, 876, 937, 938, 943, 950, 952, 955, 1023, 1024, 1026, 1028, 1032, 1038, 1039, 1041, 1042, 1044, 1045, 1155, 1262, 1314, 1315, 1335, 1496, 1499, 1502, 1504, 1510, 1511, 1517, 1525, 1532, 1533, 1554, 1555, 1558, 1561, 1600, 1737, 1764, 1769, 1775, 1785-1787, 1791, 1829, 1830, 1832, 1833, 1838, 1844, 1850, 1860, 1861, 1931, 2327, 2328, 2334, 2336, 2352, 2354, 2355, 2375, 2383, 2384, 2386, 2389, 2391, 2393, 2397, 2401, 2410, 2414, 2466, 2516, 2521, 2534, 2536, 2538, 2540, 2541, 2545, 2574, 2602-2605, 2610, 2617, 2620, 2633, 2644, 3108, 3110, 3112, 3115, 3125, 3129, 3136, 3138, 3141, 3152, 3154, 3155, 3160  
 — —, —, capillary, coated 1764  
 — —, —, capacity factor 125, 1703  
 — —, —, chip 889, 2516  
 see also Chip electrophoresis
- —, —, comparison with CZE 344, 1029, 1044, 1504, 1555, 1785, 1860, 1861, 3138
- —, —, — liquid chromatography 131, 734, 1829, 1861, 2574, 2633, 2644, 3108
- —, —, — microemulsion electrokinetic chromatography 2603, 2604  
 — —, —, computerization 97, 893  
 — —, —, counterions 51  
 — —, —, coupling with MS 48, 80, 253, 891  
 — —, —, — HPLC 837  
 — —, —, critical micelle concentration 872  
 — —, —, detection see Capillary zone electrophoresis, detection  
 — —, —, derivatization, on-column 2620  
 — —, —, electroosmotic flow 79, 879, 883  
 — —, —, enantiomer separation 63, 64, 66, 725, 733, 873, 887, 924, 927, 928, 1026, 1042, 1525, 1533, 1710, 1726, 1739, 1750, 1850, 1852, 1856, 2383, 2384, 2386, 2414, 2527, 2534, 2620, 3127(review), 3129, 3133(review), 3136  
 see also various modifiers
- —, —, high-field dispersion 919  
 — —, —, hydrodynamic flow 879  
 — —, —, hydrophobicity estimation 776  
 — —, —, instrumentation see Capillary zone electrophoresis, instrumentation
- —, —, microemulsion see Microemulsion electrokinetic chromatography
- —, —, molecular micelle 821  
 — —, —, optimization 51, 62, 74, 854, 864, 893, 943, 952, 1028, 1029, 1045, 1155, 1554, 1860, 2352, 2393, 2410, 2501, 2534, 2541, 2602, 2603, 3110, 3141, 3160  
 — —, —, partition coefficients 1517

- Capillary chromatography, micellar, pH effects 938, 943, 1028, 1045, 1496, 1525, 1554, 1860, 2397, 2541, 3110, 3138, 3160
- — —, precolumn derivatization 733, 959(review), 985(review), 1045, 1511, 1852
- — —, pseudo-stationary phases 727, 1687
- — —, quantitation 938, 1028, 1045, 1494, 1525, 1554, 1791
- — —, quantitative structure-activity relationships 776
- — —, resolution equation 11
- — —, reversed flow 1696, 3138, 3154
- — —, reviews 62, 713, 915, 959, 960, 985, 1611(book), 1615(book), 1715, 2515, 3118, 3127, 3128, 3133, 3149
- — — see also Capillary zone electrophoresis, reviews
- — —, sample stacking 916, 2354, 3154
- — —, solute-micelle interactions 2536
- — —, temperature effect 938, 2352
- — —, theory 11, 879, 1737
- — —, voltage effect 938, 3110
- — —, with alcohol, aliphatic 1510
- — —, — alkylglycoside surfactant 1844
- — —, — 6-aminopenicillanic acid, surfactant derived from 2527
- — —, — antibiotic, glycopeptide 1739
- — —, — — —, macrocyclic 2534
- — —, — bile acids 1044, 1155, 1499, 1502, 1517, 1787, 2352, 2384, 2602, 3136
- — — see also various bile salts
- — —, — Brij 1045, 2501, 3136
- — —, — cetyltrimethylammonium bromide 1496, 1532, 1785, 2397, 2610, 3138, 3154
- — —, — cholate 1155, 1499, 2352
- — —, — cyclodextrin 94, 125, 733, 927, 937, 1026, 1525, 1533, 1750, 1764, 1830, 1852, 1856, 2414, 2515(review), 3141
- — —, — deoxycholate 1517
- — —, — dextrin sulfopropyl ether 873
- — —, — N-dodecoylcarboxylvaline 1850
- — —, — DTAB 1023, 1600
- — —, — glycopeptide, antibiotics 1739
- — —, — high molecular surfactant 891
- — —, — *in situ* charged micelles 102, 1710, 1844
- — —, — isopropanol 1045
- — —, — liposome 727
- — —, — mixed micelles 776, 2384, 2501, 2602, 3136
- — —, — mucopolysaccharides 725
- — —, — organic modifiers 61, 131, 854, 858, 1852, 2352, 2384, 2389
- — —, — polymer, ionic 128
- — —, — —, sulphate 2482
- — —, — polymeric hollow fibers 867
- — —, — silver salts 1734
- — —, — starburst dendrimers 908
- — —, — steroidal-glycoside surfactant-borate complex 1710
- — —, — surfactants, chiral 63, 64, 66, 887, 1710, 3129
- — —, — —, comparison 74, 94
- — —, — —, high molecular 891
- — —, — —, neutral 3115
- — —, — taurodeoxycholate 1044, 1787, 3136
- — —, — N-tetradecanoyl-L-glutamate 928
- — —, — urea 893
- — —, — microemulsion see Microemulsion electrokinetic chromatography
- Capillary electrochromatography 841, 868, 1634, 1704
- — —, automated 1695
- — —, coupling with MS 841
- — —, enantiomer separation 1704
- — — electrophoresis see Capillary zone electrophoresis
- — — electrophoresis, affinity see Affinity electrophoresis, capillary
- — —, chip see Chip electrophoresis
- — —, field inversion 575
- — —, free solution 1200, 2619
- — —, instrumentation see Capillary zone electrophoresis, instrumentation
- — —, multiplexed 660
- — —, nonaqueous 55, 1493, 1549, 1572
- — —, on chip see Chip electrophoresis
- — —, pulsed-field 605, 1467, 3038
- — —, reviews see Capillary zone electrophoresis, reviews; Capillary chromatography, micellar, reviews
- — — gel electrophoresis, applications 163(review), 382, 494, 627, 885, 917, 960(review), 1385, 1400, 1460, 1461, 1465, 1474, 1485, 1699, 1716, 1720(review), 1772, 1796, 2167, 2232(review), 2251, 2254, 2317, 2547, 2615, 2929, 2934, 2946, 3013, 3148(review)
- — —, — acrylate polymers 2488
- — —, — affinity 2385
- — —, — columns 882
- — —, — comparison with agarose gel electrophoresis 695, 1400
- — —, — coupling with MS 2167
- — —, — derivatization 137
- — —, — detection 107, 136, 382, 574, 1716, 1796
- — — see also Capillary zone electrophoresis, detection
- — —, — enantiomer separation 1659, 2615
- — —, — entangled polymer 626
- — — see also Capillary zone electrophoresis, background electrolyte, with entangled polymer
- — —, — injector 1636
- — —, — instrumentation 1465, 1636
- — — see also Capillary zone electrophoresis, instrumentation
- — —, — media 40(review), 85, 813
- — —, — with crown ether 2615
- — —, — — cyclodextrin 1659, 2615
- — —, — poly(N-acryloylaminopropanol) 2251
- — —, — poly(ethyleneoxide) 136
- — —, — polyvinylpyrrolidone 2167
- — —, — preparative 73
- — —, — rehydratable gels 2502
- — —, — replaceable gels 574
- — —, — sample application 917
- — —, — theory 904, 1405, 2254
- — —, — with SDS 85
- — — ion electrophoresis 749, 750, 751(review), 752, 1588-1591, 1594-1596, 1598, 1603, 1607, 1834, 2433, 2505, 2514(review), 3193
- — — see also Capillary zone electrophoresis
- — —, — comparison with ion chromatography 749, 1595, 3195
- — —, — detection 752, 1590, 2464, 2505
- — —, — optimization 1589, 1594
- — — isoelectric focusing see Isoelectric focusing, capillary
- — — isotachopheresis see Isotachopheresis, capillary
- — —, — wall adsorption 906

- Capillary zone electrophoresis (CZE), applications 57, 58, 76, 83, 90, 95, 130, 132, 134, 135, 140, 148, 149, 151, 153, 166, 168-177, 350, 360, 377, 412, 484, 495, 571, 588, 686, 704, 706, 708, 709, 714, 716-720, 723, 724, 729-733, 735, 746, 749, 752, 753, 768, 840, 857, 859, 861, 900, 940-942, 946-949, 951, 953, 954, 956, 957, 962-964, 970-977, 979, 983, 986, 987, 992, 996, 998-1005, 1012, 1014, 1030, 1031, 1033-1037, 1040, 1043, 1049, 1051-1053, 1056, 1057, 1063, 1067, 1080, 1082, 1084, 1089-1091, 1114, 1145, 1156, 1158, 1160, 1164, 1172, 1199, 1206, 1284, 1293, 1324-1326, 1329, 1330, 1334, 1336, 1384, 1387, 1399, 1403, 1409, 1417, 1423, 1427, 1445, 1478, 1479, 1488, 1492, 1494, 1495, 1497, 1500, 1503-1509, 1512-1516, 1518-1521, 1524, 1527-1529, 1531, 1534, 1535, 1537-1539, 1541-1546, 1548-1550, 1553, 1555-1557, 1559, 1560, 1563, 1567, 1568, 1570-1574, 1581, 1588-1591, 1594-1596, 1598-1610, 1625, 1684, 1688, 1706, 1713, 1765, 1767-1769, 1771, 1773, 1775-1779, 1782-1785, 1793, 1798, 1813-1818, 1835-1843, 1845-1847, 1849, 1851, 1855, 1857, 1859-1861, 1865, 1877, 1895, 1897, 1902, 1905, 1908, 1914, 1953, 1973, 1978, 1988, 2018, 2069, 2070, 2077, 2092, 2116, 2171-2174, 2177, 2179-2181, 2254, 2280, 2285, 2288, 2294, 2295, 2297, 2300, 2301, 2326, 2329-2333, 2335, 2337, 2338, 2341-2345, 1347, 1349-1351, 2353, 2356-2361, 2363, 2367-2370, 2372-2374, 2378-2382, 2387, 2390, 2395, 2396, 2398-2400, 2402, 2405, 2411-2413, 2421, 2422, 2425-2436, 2491, 2494, 2508, 2523, 2534, 2535, 2537, 2539, 2542-2546, 2549, 2550, 2554, 2556, 2565-2569, 2575, 2581, 2606-2611, 2614, 2618, 2621-2627, 2631, 2639, 2641, 2642, 2648, 2652, 2654, 2656, 2658, 2665, 2674, 2712, 2743, 2762, 2793, 2795, 2798, 2809, 2861, 2930-2933, 2935-2937, 3007, 3008, 3028, 3040, 3054, 3058, 3064, 3079, 3081, 3087, 3090, 3095, 3097, 3099-3101, 3103-3107, 3109, 3112-3114, 3117, 3119-3122, 3124-3126, 3130, 3131, 3134, 3138-3140, 3142-3144, 3146, 3147, 3150-3153, 3155, 3157, 3158, 3162-3164, 3169-3195
- see also Free flow electrophoresis
- — —, affinity see Affinity electrophoresis, capillary
  - — —, automation 186, 187, 830, 843, 1714, 2294
  - — —, background electrolyte 140, 918, 2489, 2490
  - — —, — — — comparison 1643, 2018
  - — —, — — — concentration 114, 829, 1494, 1495, 1773, 2537, 2627, 2793
  - — —, — — —, chiral see Capillary zone electrophoresis, enantiomer separations
  - — —, — — —, nonaqueous 55, 1493, 1549, 1572, 1621, 2532, 3122
  - — —, — — — optimization see Capillary zone electrophoresis, optimization
  - — —, — — —, pH effect 77, 149, 304, 732, 934, 948, 949, 971, 997, 999, 1005, 1494, 1495, 1504, 1527, 1550, 1776, 1813, 1860, 1861, 1896, 1902, 1973, 2018, 2177, 2331, 2353, 2357, 2358, 2436, 2537, 2549, 2627, 2936, 3119, 3131, 3158, 3178, 3180, 3186
  - — —, — — —, — — — variation 863
  - — —, — — —, with acetonitrile 2556
  - — —, — — —, — — — acrylate polymers 2488
  - — —, — — —, — — — agarose solution 695
  - — —, — — —, — — — alkaloid, ergot 2531
  - — —, — — —, — — — alkylamines 211
  - — —, — — —, — — — alkylbenzyl quaternary ammonium 1031
  - — —, — — —, — — — alkylmethylmorpholines 1733
- Capillary zone electrophoresis (CZE), background electrolyte, with amines 987
- — —, — — —, — — — antibiotic, glycopeptide 1739, 1747
  - — —, — — —, — — —, — — — macrocyclic 932, 2534
  - — —, — — —, — — — cellulose (and derivatives) 360, 588
  - — —, — — —, — — —, — — — cetyltrimethylammonium bromide 2436, 3151
  - — —, — — —, — — —, — — — crown ether 59, 1051, 1589, 1598, 1744
  - — —, — — —, — — —, — — — cyclodextrin (and modified cyclodextrins) 54, 77, 114, 127, 150, 177, 720, 729-731, 733, 870, 924, 927, 939, 1036, 1043, 1518, 1521, 1524, 1529, 1531, 1553, 1535, 1537, 1539, 1541, 1543, 1692, 1740-1743, 1745(review), 1748-1750, 1777, 1835, 1852, 2330, 2343, 2358, 2368, 2372, 2373, 2381, 2382, 2388, 2398, 2399, 2507, 2530, 2535, 2569, 2607, 2619, 2621, 3112, 3130, 3131, 3143
  - — —, — — —, — — —, — — — dextran 2481
  - — —, — — —, — — —, — — — dextrin 2481
  - — —, — — —, — — —, — — — 1,4-diaminobutane (DAB) 1807
  - — —, — — —, — — —, — — — dioctyl sulfosuccinate 99
  - — —, — — —, — — —, — — —, replaceable 574
  - — —, — — —, — — —, — — — see also Capillary gel electrophoresis
  - — —, — — —, — — —, — — —, — — — entangled polymer 626, 1445
  - — —, — — —, — — —, — — —, — — — see also Capillary gel electrophoresis
  - — —, — — —, — — —, — — — glycopeptide antibiotics 1739, 1747
  - — —, — — —, — — —, — — — hydroxyethyl cellulose 2235, 3064
  - — —, — — —, — — —, — — — hydroxypropyl cellulose 588, 2235, 2288
  - — —, — — —, — — —, — — — ion-pairing reagents 1877, 2493
  - — —, — — —, — — —, — — —, — — —, chiral 2493
  - — —, — — —, — — —, — — —, — — — konjac glucomannan 1736
  - — —, — — —, — — —, — — —, — — — lactic acid 1589
  - — —, — — —, — — —, — — —, — — — metal salts 853
  - — —, — — —, — — —, — — —, — — — methanol 997
  - — —, — — —, — — —, — — —, — — — methylcellulose 360
  - — —, — — —, — — —, — — —, — — — organic modifiers 114, 176, 929, 947, 998, 1002, 1031, 1326, 1813, 1839, 1840, 1852, 1908, 2556, 2626
  - — —, — — —, — — —, — — —, — — — phytic acid 1091, 1877, 2933
  - — —, — — —, — — —, — — —, — — — polyacrylamide 2450
  - — —, — — —, — — —, — — —, — — —, non-crosslinked 1460, 1461
  - — —, — — —, — — —, — — —, — — — polyamines 2339
  - — —, — — —, — — —, — — —, — — —, — — — polyethylene glycol 69, 1512, 1548, 2358, 3182
  - — —, — — —, — — —, — — —, — — — polyethyleneimine 2656
  - — —, — — —, — — —, — — —, — — — polymer content 83, 885, 904, 929, 930, 1512, 2235, 2254, 3090
  - — —, — — —, — — —, — — —, — — — polyvinylpyrrolidone 718
  - — —, — — —, — — —, — — —, — — — propanol 932
  - — —, — — —, — — —, — — —, — — — pullulan 2674
  - — —, — — —, — — —, — — —, — — — quinine 2532
  - — —, — — —, — — —, — — —, — — — silver salts 1734
  - — —, — — —, — — —, — — —, — — —, — — — N,N,N',N'-tetramethyl-1,3-butadiene 1033
  - — —, — — —, — — —, — — —, — — —, — — — triethylamine 2556
  - — —, — — —, — — —, — — —, — — —, — — — 2,2,2-trifluoroethanol 2626
  - — —, — — —, — — —, — — —, — — —, — — — TTAB 996, 1005
  - — —, — — —, — — —, — — —, — — —, — — — urea 177, 1326
  - — —, — — —, — — —, — — —, — — —, — — — vancomycin 175, 1751, 2533, 2622, 3144
  - — —, — — —, — — —, — — —, — — —, — — — baseline irregularities 2506
  - — —, — — —, — — —, — — —, — — —, — — — perturbations 3
  - — —, — — —, — — —, — — —, — — —, — — — buffers see Capillary zone electrophoresis, background electrolyte
  - — —, — — —, — — —, — — —, — — —, — — — capillaries 67, 819
  - — —, — — —, — — —, — — —, — — —, — — — coated 27, 89, 819, 865, 880, 901, 986, 999, 1080,

- 1084, 1160, 1527, 1541, 1571, 1817, 1849, 1896, 1914, 2434, 2495(review), 2500, 2622, 2656, 2665, 3169, 3180, 3184  
 see also Capillary, coating
- Capillary zone electrophoresis (CZE), capillaries, coiling 875  
 — — —, —, comparison coated-uncoated 1813, 3169  
 — — —, —, cooling 860  
 — — —, —, geometries 859  
 — — —, —, diameter 1707(review)  
 — — —, —, plastic 67, 3189  
 — — —, —, surface modified 98  
 see also Capillary
- — —, chemometric 848(review), 1730  
 — — —, chip see Chip electrophoresis  
 — — —, combination with immunoassay 166, 2500  
 — — —, — — SFE 2356  
 — — —, comparison with agarose gel electrophoresis 695  
 — — —, — — capillary chromatography, micellar 344, 1029, 1044, 1504, 1555, 1785, 1860, 1861  
 — — —, — — gel electrophoresis 307, 695  
 — — —, comparison with LC (HPLC) 170, 179, 714, 749, 940, 946, 953, 956, 975, 979, 983, 1063, 1156, 1206, 1495, 1508, 1514, 1528, 1534, 1535, 1556, 1560, 1842, 1851, 1861, 1865, 2168, 2349, 2369, 2608, 2631, 2642, 2743, 2931, 2932, 3109, 3114, 3124, 3134, 3158  
 — — —, — — polyacrylamide gel electrophoresis 977  
 — — —, — — MALDI 1865  
 — — —, — — NMR 1742  
 — — —, — — polarography 3124  
 — — —, — — spectrophotometry 3101  
 — — —, — — voltammetry 719  
 — — —, computerization 892, 895, 2379  
 — — —, continuous 120  
 — — —, coupling with AAS (atomic absorption spectrometry) 3183  
 — — —, — — capillary isotachopheresis 756(review), 878, 2180, 2652  
 — — —, — — electrochemical methods 34, 812  
 — — —, — — HPLC/GPC 202  
 — — —, — — immunoassay 167, 1718(review)  
 — — —, — — LC (HPLC) 14, 186, 202, 219, 712, 2497  
 — — —, — — membrane preconcentration 1863, 1882  
 — — —, — — microdialysis 174  
 — — —, — — microreactors, enzyme 888  
 — — —, — — MS 47, 49, 82, 91, 106, 174, 195, 709, 842, 843, 871, 894, 974, 986, 1052, 1073, 1492, 1549, 1640, 1671, 1672(review), 1673, 1675, 1676(review), 1728(review), 1738, 1863, 1866, 1882, 2167, 2236, 2289(review), 2363, 2487, 2544, 2625, 2639, 2654, 3103, 3113, 3117, 3120, 3125, 3173  
 — — —, — — NMR 52(review)  
 — — —, — — solid phase extraction 1061  
 — — —, derivatization see Capillary zone electrophoresis, postcolumn derivatization and precolumn derivatization  
 — — —, —, on column 1702  
 — — —, detection, amperometric 37, 78, 810(review), 1505, 1783, 2427, 2463, 2468, 2477, 3146  
 — — —, —, biosensors 1641  
 see also detection, electrochemical  
 — — —, —, chemiluminescence 881, 1724, 2464, 2614  
 — — —, —, cell 1642  
 — — —, —, conductivity 1602, 1610, 2505
- Capillary zone electrophoresis (CZE), detection, comparison 1735  
 — — —, —, electrochemical 81, 92(review), 797, 804, 807, 812, 876, 960(review), 1035, 1544, 1545, 1637(review), 1644, 1652, 1654, 1785, 2387, 2461, 2474, 2607  
 — — —, —, fluorescence 32, 33, 60, 86, 102, 127, 135, 136, 166, 169, 188, 192, 217, 382, 571, 574, 686, 726, 733, 746, 753, 802, 805, 806, 809, 905, 907, 920, 962-964, 972, 973, 998, 1032, 1038, 1039, 1045, 1057, 1089, 1199, 1284, 1330, 1334, 1387, 1423, 1427, 1479, 1488, 1511, 1538, 1539, 1542, 1563, 1638, 1647, 1656, 1677, 1693, 1702, 1723, 1724, 1735, 1771, 1779, 1782, 1784, 1787, 1796, 1833, 1836, 1841, 1843, 1845, 1846, 2092, 2116, 2171, 2180, 2280, 2288, 2301, 2328, 2460, 2465, 2466, 2500, 2511, 2520, 2522, 2609, 2644, 2809, 3028, 3040, 3087, 3112, 3139  
 — — —, —, —, indirect 102, 998, 1803, 2466  
 — — —, —, —, near IR 2472, 3087  
 — — —, —, —, spectra 1693  
 — — —, —, —, indirect 102, 151, 861, 881, 899, 932, 960(review), 971, 1000, 1005, 1030, 1324, 1573, 1590, 1608, 1650, 1651, 1778, 1815, 1833, 2411, 2431, 2436, 2466, 2473, 2549, 2614, 3113, 3163, 3164, 3169, 3170, 3175, 3177, 3186, 3188  
 — — —, —, —, laser based 32, 60, 86, 127, 135, 136, 166, 169, 173, 188, 192, 217, 382, 571, 574, 686, 726, 733, 746, 753, 796, 802, 805(review), 806, 809, 905, 911, 962, 964, 967, 968, 972, 998, 1032, 1038, 1039, 1045, 1057, 1089, 1090, 1199, 1284, 1334, 1423, 1427, 1479, 1488, 1511, 1538, 1539, 1542, 1563, 1638, 1647, 1648(review), 1656, 1693, 1702, 1723, 1735, 1771, 1782, 1787, 1796, 1833, 1836, 1841, 1843, 1845, 1846, 2092, 2116, 2171, 2180, 2280, 2288, 2297, 2301, 2460, 2466, 2500, 2511, 2520, 2522, 2609, 2644, 2809, 3028, 3040, 3139  
 — — —, —, —, luminescence 2334  
 — — —, —, —, new 33, 798, 1723  
 — — —, —, —, of column 1656  
 — — —, —, —, photodiode-array 911, 938, 1200, 1724, 1730, 1832, 2399, 2434, 3125, 3176  
 — — —, —, —, potentiometric 1639  
 — — —, —, —, refractometric 133(review), 173, 967, 968, 1090, 2467  
 — — —, —, —, reviews 52, 805, 810, 960, 966, 1612, 1616, 1637, 1646, 1648, 2476  
 — — —, —, —, sensitivity 1631  
 — — —, —, —, video image system 1719  
 — — —, —, X-ray 1655  
 see also Detection and detectors  
 — — —, —, electric field strength 10  
 — — —, —, electroosmosis 96, 890, 1731  
 — — —, —, electroosmotic flow 71, 104, 211, 853, 879, 1718, 1731, 1902, 2506  
 — — —, —, —, control 72, 1033  
 — — —, —, —, reversed 883, 3138, 3191  
 — — —, —, —, suppressed 1606  
 — — —, —, electrophoretic mobility 15, 70, 183, 184, 970  
 — — —, —, emersion peaks 862  
 — — —, —, enantiomer separations 54, 59, 68, 77, 101, 109, 112, 113(review), 114, 150, 172, 175-177, 189, 724, 729-731, 733, 866(review), 870, 924, 925(review), 926, 929, 930, 932-935, 939, 961, 1036, 1043, 1051, 1521, 1524, 1529, 1531, 1533-1535, 1537, 1539, 1543, 1553, 1732, 1739-1744, 1746-1752, 1777, 1835, 1845, 1851, 1852, 2330, 2343, 2368, 2370, 2372, 2373, 2376(review), 2381, 2388, 2395, 2399, 2481, 2493, 2503, 2507,

- 2526, 2530-2535, 2611, 2618, 2619, 2621, 2622, 3095, 3119, 3126, 3131, 3133(review), 3140, 3142-3144
- Capillary zone electrophoresis (CZE), fraction collection 57, 87, 210, 830
- — —, frontal analysis 112
  - — —, high pressure 2658
  - — —, Hummell-Dreyer 3134
  - — —, hydrodynamic flow 879
  - — —, — velocity 775
  - — —, instrumentation 18, 22, 28, 78, 81, 82, 84, 87, 88, 184, 660, 791, 793, 807, 1631, 1706, 1714, 2294, 2456, 2459
  - — —, ion-pairing 222, 729
  - — —, loss of analyte 2498
  - — —, matrix effects 2492
  - — —, measurement precision 1700
  - — —, method development 1730
  - — —, miniaturization see Chip electrophoresis
  - — —, mobile phase see Capillary zone electrophoresis, background electrolyte
  - — —, modeling 2, 14, 104, 796, 851, 890, 1678, 2174
  - — —, non-aqueous see Capillary zone electrophoresis, background electrolyte, nonaqueous
  - — —, nomenclature 101, 114, 149, 172, 177, 211, 304, 706, 732
  - — —, optimization 864, 934, 960(review), 971, 986, 1031, 1033, 1036, 1494, 1495, 1503, 1543, 1550, 1594, 1680(review), 1682(review), 1683, 1730, 1776, 1813, 1860, 1861, 1896, 1973, 2018, 2331, 2335, 2338, 2353, 2357, 2358, 2422, 2473, 2504, 2526, 2534, 2537, 2549, 2566, 2607, 2621, 2627, 2656, 2793, 2936, 3119, 3122, 3178, 3180
  - — —, organic solvent modifiers see Capillary zone electrophoresis, background electrolyte
  - — —, peak broadening 71
  - — —, — dispersion 906
  - — —, — shape 2, 9
  - — —, — splitting 9
  - — —, photoactivation 1709
  - — —, postcolumn derivatization 800, 1702
  - — —, — reaction detection 920
  - — —, — reactor 2522
  - — —, precolumn derivatization 137, 217, 724, 733, 809, 959(review), 962, 963, 970, 985(review), 1034, 1057, 1387, 1550, 1563, 1702, 1768, 1782, 1842, 1845-1847, 1851, 1852, 2550, 3112, 3139
  - — —, preconcentration, on-line 2180
  - — —, preparative 185, 826, 1701
  - — —, quantitation 168, 171, 1005, 1030, 1037, 1164, 1494, 1500, 1503, 1528, 1529, 1531, 1543, 1548, 1667, 2018
  - — —, reaction based 75
  - — —, rectangular 2496
  - — —, reproducibility 896, 902
  - — —, retardation of particles 2450
  - — —, reverse direction 1696
  - — —, reversed polarity 719, 1409, 1776, 2288
  - — —, reviews and books 52, 92, 105, 108, 113, 126, 133, 190, 713, 739, 756, 805, 810, 848-850, 855, 866, 884, 909, 914, 944, 959, 960, 965, 966, 985, 1050, 1389, 1522, 1523, 1564, 1566, 1611(book), 1612, 1614, 1615(book), 1616, 1618, 1637, 1646, 1648, 1666, 1673, 1676, 1679, 1680, 1682, 1686, 1691, 1697, 1698, 1707, 1708, 1712, 1718, 1720, 1721, 1727, 1728, 1745, 1770, 1808, 1819, 1880, 2176, 2232, 2289, 2366, 2376, 2377, 2407, 2408, 2441, 2499, 2509, 2510, 2517-2519, 2528, 2659, 2679, 2681, 3096, 3111, 3118, 3123, 3133, 3149, 3156, 3159
- Capillary zone electrophoresis (CZE), sample enrichment 1863, 1882, 1978, 2345, 2503, 2508
- — —, — injection 22, 660, 1694, 1696, 1705, 1745(review)
  - — —, — overloading 1542
  - — —, — pretreatment 1034, 1052, 1061, 1728(review), 3174
  - — —, — stacking 869, 1588, 1689, 2344, 2422, 2512, 2513
  - — —, simulation see Capillary zone electrophoresis, modeling
  - — —, size dependent separation 227
  - — —, temperature control 856
  - — —, — effects 59, 69, 948, 949, 971, 1053, 1409, 1543, 1602, 1729, 2338, 2353, 2537, 2549, 2674
  - — —, — profile of capillaries 3081
  - — —, —, subzero 1053
  - — —, theory 9, 10, 71, 96, 104, 772, 875, 879, 897, 898, 904, 1618(review), 1711, 1717, 1722, 2254, 2447
  - — —, troubleshooting 1685
  - — —, validation 767, 1681, 3142
  - — —, viscosity effect 2674
  - — —, voltage effects 971, 1494, 2353, 2537, 2793, 3130
  - — —, wall adsorption 906, 1082, 1711
  - — —, zeta potential 772
  - — —, zone dispersion 875
- Cellulose electrophoresis 138, 2616, 2883
- membrane electrophoresis 1317
- Chemometric 848(review), 1730
- Chip electrophoresis 698, 889, 1025, 1632, 2516
- —, detector 1632
- Chloroquine gel electrophoresis 632
- Computerization 45, 46, 97, 117, 323, 351, 586, 831, 835, 838, 892, 893, 895, 1101(review), 1628, 1669, 1670, 1754, 1871, 1899, 1948, 1990, 2379, 2444, 2483-2485
- see also Database; Modeling
- Concanavalin A affinity electrophoresis 847
- Continuous electrophoresis 13, 120, 212, 478, 1763
- Counteracting chromatographic electrophoresis 2661
- Critical micelle concentration 872
- Cross-field gel electrophoresis 2261
- Crossed immunoelectrophoresis see Immunochemical techniques in electrophoresis; Immunoaffinity electrophoresis
- Curdlan gel electrophoresis 110, 2479
- Data processing 357, 642
- Database 323, 351, 1754, 1875, 1884, 1899, 1961, 1962, 2669
- see also Computerization
- Densitometry see Detection and detectors, densitometric
- Derivatization, on column 2620
- see also Precolumn derivatization
- Destaining 2475
- Detection and detectors, amperometric 37, 78, 810(review), 1505, 1783, 2427, 2463, 2468, 2477, 3146
- see also Detection and detectors, electrochemical
- — —, autoradiographic 199, 230, 235, 238, 243, 248, 277, 278, 310, 316, 396, 437, 439, 497, 507, 521, 528, 538, 545, 553, 563, 616, 628, 630, 638, 639, 643, 657, 661, 663, 666, 670, 673, 675, 678, 688, 691, 694, 1099, 1105, 1117, 1118, 1126, 1142, 1282, 1327, 1331, 1343, 1348, 1393, 1447, 1926, 2024, 2028, 2047, 2099, 2103, 2113, 2118, 2159, 2184, 2186, 2222, 2228, 2249, 2553, 2560, 2683, 2703, 2718, 2884, 2941, 2959, 3029, 3042,

- 3062, 3080
- Detection and detectors, biosensors 1641
- — —, chemiluminescence 29, 229, 583, 663, 811, 881, 1724, 2464, 2614, 3093
  - — —, comparison 1735
  - — —, conductivity 1602, 1610, 2505
  - — —, densitometric 245, 246, 254, 310, 318, 320, 321, 362, 387, 402, 423, 477, 592, 653, 667, 981, 1008, 1118, 1244, 1343, 1348, 1970, 2047, 2068, 2209, 2222, 2302, 2727, 2772
  - — —, electrochemical 81, 92(review), 797, 804, 807, 812, 876, 960(review), 1035, 1544, 1545, 1637(review), 1644, 1652, 1654, 1785, 2387, 2461, 2474, 2607
  - — — see also Detection and detectors, amperometric
  - — —, fluorescence 32, 33, 36, 38, 60, 86, 102, 127, 135, 136, 166, 169, 188, 191, 192, 382, 571, 574, 636, 647, 686, 726, 733, 746, 753, 802, 805, 806, 809, 905, 907, 920, 962-964, 972, 973, 998, 1032, 1038, 1039, 1045, 1057, 1089, 1199, 1284, 1330, 1334, 1387, 1423, 1427, 1479, 1488, 1511, 1538, 1539, 1542, 1563, 1638, 1647, 1656, 1677, 1693, 1702, 1723, 1724, 1735, 1771, 1779, 1782, 1784, 1787, 1796, 1833, 1836, 1841, 1843, 1845, 1846, 2038, 2081, 2092, 2116, 2171, 2180, 2280, 2288, 2301, 2328, 2417, 2460, 2465, 2466, 2500, 2511, 2520, 2522, 2609, 2644, 2809, 3028, 3040, 3087, 3112, 3139
  - — —, —, indirect 102, 998, 1833, 2466, 2614
  - — —, —, near IR 2472, 3087
  - — —, fluorography 239, 243, 245, 308, 314, 320, 362, 667, 1180, 1307, 1878, 2041
  - — —, indirect 102, 151, 752, 861, 881, 899, 932, 960(review), 971, 1000, 1030, 1324, 1573, 1590, 1608, 1650, 1651, 1778, 1815, 1833, 2411, 2431, 2436, 2466, 2473, 2549, 3113, 3163, 3164, 3169, 3170, 3175, 3177, 3186, 3188
  - — —, laser based 32, 36, 60, 86, 127, 135, 136, 166, 169, 173, 188, 192, 318, 382, 402, 571, 574, 636, 686, 726, 733, 746, 753, 796, 802, 805(review), 806, 809, 905, 911, 962, 964, 967, 968, 972, 998, 1032, 1038, 1039, 1045, 1057, 1089, 1090, 1199, 1284, 1334, 1334, 1423, 1427, 1479, 1488, 1511, 1538, 1539, 1542, 1563, 1638, 1647, 1648(review), 1656, 1693, 1702, 1723, 1735, 1771, 1782, 1787, 1796, 1833, 1836, 1841, 1843, 1845, 1846, 2092, 2116, 2171, 2180, 2280, 2288, 2297, 2301, 2460, 2466, 2500, 2511, 2520, 2522, 2609, 2644, 2809, 3028, 3040, 3139
  - — —, —, luminiscence 2334, 2469
  - — —, photodiode array 911, 938, 1200, 1724, 1730, 1832, 2399, 2434, 3125, 3176
  - — —, potentiometric 1639
  - — —, refractometric 133(review), 173, 967, 968, 1090, 2467
  - — —, review 30, 92, 133, 805, 810, 960, 1612, 1616, 1637, 1646, 1648, 2476
  - — —, scanning 245, 246, 310, 320, 321, 357, 362, 387, 423, 477, 653, 667, 1008, 1118, 1244, 1343, 1348, 1970, 2013, 2047, 2209, 2222, 2302, 2727, 2772
  - — —, sensitivity 1631
  - — —, video image system 1719
  - — —, zymography 122, 408, 604, 1278, 1296, 2072, 2140, 2146, 2150, 2913, 2917
  - — — see also Capillary chromatography, micellar, detection; Capillary zone electrophoresis, detection; Isotachophoresis, detection
- Detector(s), new types 798, 1723
- Dextran, acryldex cross-linked 1658
- DGGE 1458
- Disc, charged 123
- Discontinuous electrophoresis 1165
- DNA-fingerprinting see structural studies in individual entries in the List of Types of Compounds Chromatographed
- Electroblotting 119, 147, 504, 980, 995, 1237, 1249, 1674, 1887, 1900, 1911, 2060, 2109, 2292, 2601, 2685, 2723, 2744, 2777, 2939
- — — see also Blotting techniques; Immunoblotting
- Electrochromatography 814, 874, 912, 1081, 1540, 1760, 2529
- , capillary 841, 867, 1762, 2529, 2676, 3105
  - , —, comparison with CZE (capillary zone electrophoresis) 3105
  - , —, — HPLC 1762, 2529
- Electroelution 788
- Electroextraction 936
- Electrofractionation 2675
- Electrokinetic chromatography see Capillary chromatography, micellar
- Electroosmosis 890, 1731
- Electroosmotic flow 71, 104, 211, 853, 879, 883, 1717, 1731, 2506
- —, control 72, 1033
  - —, reversed 883, 3138, 3191
- Electrophoresis, combination with immunoassay 166, 2500
- , —, — PC 1047, 1054, 1055, 1058-1060, 1065, 1848, 2634, 2640
  - , —, — SFE 2356
- Electrophoresis, comparison with GC 3124
- , — LC (HPLC) 131, 170, 179, 714, 734, 749, 940, 946, 953, 956, 975, 979, 983, 1063, 1136, 1156, 1206, 1495, 1508, 1514, 1528, 1534, 1535, 1556, 1560, 1595, 1762, 1829, 1842, 1861, 1865, 2168, 2349, 2369, 2529, 2574, 2608, 2631, 2633, 2642, 2644, 2655, 2743, 2931, 2932, 3108, 3109, 3114, 3124, 3134, 3158, 3195
  - , — — MALDI 1865
  - , — — polarography 3124
  - , — — spectrophotometric methods 3101
  - , — — voltammetry 719
  - , — — coupling with AAS (atomic absorption spectrometry) 3183
  - , — — electrochemical methods 34
  - , — — electrospray interface 47
  - , — — HPLC/GPC 202
  - , — — immunoassay 167, 1718(review)
  - , — — LC (HPLC) 14, 186, 219, 712, 837, 2497
  - , — — membrane preconcentration 1863, 1882
  - , — — microdialysis 174
  - , — — microreactors, enzyme 888
  - , — — MS 47-49, 80, 82, 91, 106, 115, 174, 195, 223(review), 228, 253, 709, 841-843, 871, 891, 894, 974, 986, 1052, 1073, 1492, 1549, 1640, 1671, 1672(review), 1673-1675, 1676(review), 1728(review), 1738, 1863, 1866, 1882, 2167, 2236, 2289(review), 2363, 2486, 2487, 2544, 2625, 2639, 2654, 2664(review), 3103, 3113, 3117, 3120, 3125, 3173
  - — — see also Capillary zone electrophoresis; Isoelectric focusing
  - , — — NMR 52(review), 1742
  - , — — solid phase extraction 1061
- Electrophoretic mobility see Mobility, electrophoretic
- — shift assay 364, 373, 563, 584, 638, 676, 1102, 1350, 1394(review), 1490, 1491, 2129, 2845, 3094
  - — transfer, semi dry see Electroblotting
- Enantiomers, separation 54, 59, 63, 64, 66, 68, 77, 101, 109, 110, 111(review), 112, 113(review), 114, 150, 172, 175-177, 189, 724, 725, 729-731, 733, 866(review), 870, 873, 887, 923, 924, 925(re-

- view), 926-935, 939, 961, 1026, 1036, 1042, 1043, 1051, 1292, 1521, 1522, 1524, 1525, 1529, 1531, 1533-1535, 1537, 1539, 1543, 1553, 1554, 1659, 1704, 1726, 1732, 1739-1744, 1745(review), 1746-1752, 1777, 1835, 1845, 1850-1852, 1856, 2330, 2343, 2368, 2370, 2372, 2373, 2376(review), 2381, 2383, 2384, 2386, 2388, 2395, 2399, 2414, 2481, 2493, 2503, 2507, 2515(review), 2526, 2527, 2528(review), 2529-2535, 2607, 2611, 2615, 2618-2622, 3095, 3119, 3126, 3127(review), 3129, 3131, 3133(review), 3140, 3142-3144
- Enzymatic staining 1017
- Ethidium-bromide as detection reagent 284, 505, 513, 520, 528, 533, 535, 541, 564, 576, 585, 592, 632, 669, 674, 688, 699, 1275, 1360, 1366, 1393, 1408, 1410, 1420, 1429, 1432, 1438, 1448, 1890, 2195, 2196, 2205, 2209, 2223, 2273, 2302, 2322, 2324, 2939, 2948, 2951, 2952, 2987, 3036, 3068
- Field-inversion electrophoresis (selected references only) 2252, 3044
- —, capillary 575
- —, comparison with homogeneous electric field electrophoresis 570
- — see also various types of field-inversion electrophoresis
- Fingerprinting see Peptide mapping and structural studies in individual entries in the List of Types of Compounds Chromatographed
- FITC-staining 980
- Flow-through electrophoresis 1623
- Fluorophore assisted carbohydrate electrophoresis (FACE) 969(review)
- Footprinting see Nucleotide mapping and structural studies in individual entries in the List of Types of Compounds Chromatographed
- Formaldehyde – agarose gel 1340, 1355, 2974
- Formaldehyde/formamide agarose 2941
- Fraction collection 21, 57, 87, 210
- Free flow electrophoresis 121(review), 1577, 1921, 2086, 2415, 2420
- — —, preparative 825, 2415, 3167
- — — see also Capillary zone electrophoresis
- — — solution electrophoresis 124, 1435, 2410, 2443
- — — see also Capillary zone electrophoresis
- Gel concentration, optimally 766
- Gel(s), porosity 816, 2446
- — retardation analysis 415, 2283, 3016, 3031
- —, viscous 1661
- Gradient(s), gel(s) 156-158, 160, 246, 275, 331, 402, 465, 534, 569(review), 623, 1008, 1016, 1173, 1227, 1249, 1587, 1668, 1916, 1926, 1984, 2052, 2062, 2134, 2588
- —, —, denaturing 1436, 1475(review), 2191, 2287, 2320, 2867, 2970, 3085
- —, —, electric field 1898
- —, pH, immobilized 119, 207, 255, 276, 1180, 1620, 2015, 2051, 2731
- —, —, nonequilibrium 221
- —, temperature see Temperature gradient gel electrophoresis
- History of electrophoresis 5
- Hydrodynamic flow 879
- Hydrophobicity estimation 776, 1630
- Image analysis 6, 245, 276, 323, 682, 1357, 2444
- Immunoaffinity electrophoresis 1804
- Immunoblotting 159, 237, 245, 246, 255, 271, 273, 277, 281, 299, 352, 417, 426, 450, 451, 459, 524, 534, 604, 1016, 1083, 1101(review), 1112, 1125, 1131, 1135, 1163, 1166, 1226, 1251, 1256, 1366, 1653, 1795, 1810, 1822(review), 1825, 1876, 1922, 1925, 1967, 1985, 1998, 2005, 2021, 2024, 2027, 2034, 2038, 2045, 2056, 2073, 2085, 2090, 2099, 2102, 2108, 2117, 2151-2153, 2217, 2220, 2590, 2692, 2693, 2696, 2701, 2703, 2716, 2742, 2750, 2770, 2783, 2835, 2842, 2854, 2858, 2860, 2866, 2868, 2883, 2890, 2917, 2918, 2945, 3037
- — — see also Blotting techniques; Electroblotting; Electroimmunoblotting
- Immunocapillary electrophoresis 1203
- Immunochemical techniques in electrophoresis 146, 288, 1085, 1799, 1804, 1928, 1983, 2060
- Immuno-electrophoresis, counter 2403, 2404
- —, crossed 226, 302, 454, 1804, 2161
- — — see also Rocket immunoelectrophoresis
- Immunofixation 31, 1157, 2763
- Instrumentation for electrophoresis 8, 16-28, 31, 78, 81, 82, 84, 87, 88, 124, 184, 532, 591, 647, 658, 660, 780-784, 785(review), 786-795, 807, 808, 836, 1464, 1465, 1582, 1631-1636, 1706, 1714, 1780, 2294, 2451-2459, 2969
- — — see also appropriate entries under Capillary zone electrophoresis; Detectors, new types
- Iso-dal technique see Two dimensional electrophoresis
- Isoelectric focusing, applications 220, 355, 421, 994, 1244, 1249, 1260, 1295, 1665, 1801, 1811, 1822(review), 1888, 1939, 1948, 1979, 2011, 2060, 2063, 2108, 2130, 2132, 2685, 2784, 2807, 2829, 2887, 2897, 2899, 2900, 2915, 3037
- — — see also Gradient(s), pH
- — —, automated 305
- — —, capillary 191, 228, 232, 345, 988, 1092, 1806, 2562, 2670(review), 2672, 2677(review), 2756, 2791
- — —, —, coupling with MS 228
- — —, —, detection 38, 191
- — —, —, instrumentation 782
- — —, —, preparative 827, 1946
- — —, combination with MS 207
- — —, — — X-ray fluorescence detection 2081
- — —, continuous 65
- — —, matrices 40(review)
- — —, media 1665
- — —, model 2484
- — —, preparative 782, 824
- — —, rotating tube 232
- — —, sample streaks and smears 1620
- Isotachopheresis, application(s) 152, 747, 748, 976, 1498, 1536, 1592, 1827, 1862, 2423, 2525, 2551
- —, capillary 728, 756(review), 903, 910, 921, 1337, 1526, 1597, 1629, 2340, 3135
- —, —, coupling with capillary zone electrophoresis 756(review), 878, 2180, 2652
- —, —, electrophoretic mobility 921
- —, —, model 903, 910
- —, —, two-dimensional 2524
- —, interface motion 2525
- —, modeling 851
- —, quantitation 152, 1597
- —, review 163, 756, 777
- —, theory 922
- Labelling, fluorescence see Fluorescence labelling
- Lectin affinity electrophoresis 50, 1168
- Liquid scintillation counting see Detection, radioactivity

- Mathematical methods *see* Computerization, Modeling
- Media for electrophoresis 39, 40(review), 42, 43, 652, 815, 816, 818, 820, 823, 829, 1658, 1661, 1662, 1664, 1665  
*see also* Gel(s)
- Membrane electrophoresis 846
- Methylene blue staining 512
- Microemulsion electrokinetic chromatography 56, 1630, 2603, 2604, 3137
- Microplate array diagonal gel electrophoresis 1453, 1456
- Miniaturization in electrophoresis 595, 778, 779, 1725  
*see also* entries under Capillary zone electrophoresis; Chip electrophoresis
- Mobility, electrophoretic 12, 15, 70, 183, 184, 209, 742, 761, 774, 833, 921, 970, 1079, 1106, 1584(review), 1586, 1617, 2364, 2445(review), 2449, 2991, 3053, 3116, 3166, 3168  
—, reproducibility 765  
—, shift *see* Electrophoretic mobility shift assay
- Modeling 2, 14, 46, 104, 755(review), 796, 833-835, 837, 851, 890, 903, 910, 1628, 1669, 1678, 1894, 2174, 2483-2485, 2990, 3026  
*see also* Computerization
- Molecular sieving, theory 771  
— weight, calculation 1011, 1300
- Nitrocellulose transfer technique *see* Blotting techniques
- Nonequilibrium pH gradient electrophoresis 221, 1125
- Northern blotting *see* Blotting techniques; Immunoblotting
- Nucleotide mapping *see* structural studies in individual entries in the List of Types of Compounds Chromatographed
- Optimization 51, 74, 101, 114, 149, 172, 177, 211, 304, 706, 732, 766, 801, 854, 864, 893, 934, 943, 952, 960(review), 971, 986, 1028, 1029, 1031, 1033, 1036, 1155, 1494, 1495, 1503, 1543, 1550, 1554, 1589, 1594, 1680(review), 1682(review), 1683, 1730, 1773, 1776, 1813, 1860, 1861, 1896, 1973, 2018, 2331, 2335, 2338, 2352, 2353, 2357, 2358, 2393, 2410, 2422, 2473, 2501, 2504, 2526, 2534, 2537, 2541, 2549, 2566, 2602, 2603, 2607, 2621, 2627, 2656, 2793, 2936, 3110, 3119, 3122, 3137, 3141, 3160, 3178, 3180
- Orthogonal field alternation gel electrophoresis *see* Field inversion electrophoresis and other types of field inversion
- Paper electrophoresis 4, 139, 711, 1593, 2175
- Partition coefficient 1517, 2374
- Peak broadening 71  
— dispersion 906  
— resolution 1624  
— shape 2, 9  
— splitting 9
- Peptide mapping *see* structural studies in individual entries in the List of Types of Compounds Chromatographed
- pH effects 17, 149, 304, 732, 934, 948, 949, 971, 997, 999, 1005, 1028, 1045, 1494-1496, 1504, 1525, 1527, 1550, 1554, 1776, 1813, 1860, 1861, 1896, 1902, 1973, 2018, 2177, 2331, 2353, 2357, 2358, 2397, 2436, 2537, 2541, 2936, 3110, 3119, 3131, 3138, 3158, 3160, 3178, 3180, 3186  
*see also* Capillary zone electrophoresis, background electrolyte, pH
- PhastSystem 305, 402, 465, 2063, 2132
- pH gradients, immobilized *see* Gradients, pH, immobilized
- Phosphorimager 1926, 2206, 2727
- Planar chip technology *see* Chip electrophoresis
- Plate, cooling 19
- Polyacrylamide gel containing gelatin 1300, 1305
- Polyacrylamide gel containing polyethylene glycol 816  
— — polyester-backed 1450  
— —, porosity 816
- Polyacrylamide-agarose gel, large pore 564
- Polyacrylamide-urea gel 280, 496, 1459, 2186, 2228
- Pore size in gels 2446
- Porosity in gels 816
- Postcolumn derivatization 800, 1702  
— reaction detection 920  
— reactor 2522
- Precolumn derivatization 136, 137, 217, 724, 733, 809, 959(review), 962, 963, 970, 985(review), 1034, 1045, 1057, 1387, 1511, 1563, 1782, 1842, 1845-1847, 1851, 1852, 2550, 3112, 3139
- Preparative electrophoresis 44, 73, 118, 119, 185, 212, 651, 782, 824-828, 846, 1093, 1094, 1668, 1701, 1853, 1873, 1946, 2059, 3167  
*see also* Capillary zone electrophoresis, preparative; Isoelectric focusing, preparative
- Pulsed field (gel) electrophoresis, applications 283, 562, 573, 595, 596, 600, 646, 931, 1391, 1396, 1414, 1431, 1433, 1437, 1446, 1469, 1483, 1669, 1937, 2233, 2237, 2238, 2244, 2260, 2268, 2272, 2278, 2325, 2995, 2998, 3011, 3018, 3022, 3027, 3032, 3035, 3038  
— — —, automation 1613  
— — —, capillary 605, 1467, 3038  
— — —, reviews 1421, 1473, 3002, 3043
- Quantitation, reviews 1613, 1666
- Quantitative structure-activity relationships 776, 1630
- Retardation of particles 2450
- Review(s), applications to various fields of science and technology 224, 234, 569, 587, 737, 740, 744, 745, 754, 757, 969, 989, 1075, 1140, 1285, 1392, 1565, 1583, 1820, 1874, 1889, 1913, 2437-2440, 2584, 2663, 2831, 2958  
—, blotting techniques 214  
—, capillaries 1707, 2495, 2518  
—, capillary chromatography, micellar 62, 713, 915, 959, 960, 985, 1611(book), 1615(book), 1715, 2515, 3118, 3127, 3128, 3133, 3149  
—, — gel electrophoresis 40, 163, 960, 1720, 2232, 3148  
—, — ion electrophoresis 751, 2514  
—, — zone electrophoresis 52, 92, 105, 108, 113, 126, 133, 190, 713, 739, 756, 805, 810, 848-850, 855, 866, 884, 909, 914, 944, 959, 960, 965, 966, 985, 1050, 1389, 1522, 1523, 1564, 1566, 1611(book), 1612, 1614, 1615(book), 1616, 1618, 1637, 1646, 1648, 1666, 1673, 1676, 1679, 1680, 1682, 1686, 1691, 1697, 1698, 1707, 1708, 1712, 1718, 1720, 1721, 1727, 1728, 1745, 1770, 1808, 1819, 1880, 2176, 2232, 2289, 2366, 2376, 2377, 2407, 2408, 2441, 2499, 2509, 2510, 2517-2519, 2528, 2659, 2679, 2681, 3096, 3111, 3118, 3123, 3133, 3149, 3156, 3159  
—, chemometric 848  
—, computerization 1101  
—, coupling with immunoassay 1718  
—, — MS 223, 1672, 1676, 1728, 2289, 2664  
—, — — NMR 52  
—, detection 30, 92, 133, 805, 960, 966, 1612, 1616, 1637, 1646, 1648, 2476  
—, electrophoretic mobility-shift assay 1394  
—, enantiomer separation 111, 113, 866, 925, 1522, 1745, 2376, 2515, 2528, 3127, 3133  
*see also* Capillary zone electrophoresis



- Review(s), fluorophore-assisted carbohydrate electrophoresis 969
- , free flow electrophoresis 121
  - , gradient(s) gels 569
  - , —, denaturing 1475
  - , immunoblotting 1001, 1822
  - , instrumentation 785
  - , isoelectric focusing 40, 1822
  - , — —, capillary 2671, 2677
  - , isotachopheresis 163, 756, 777
  - , media for electrophoresis 40
  - , mobility, electrophoretic 1584, 2445
  - , modeling 755
  - , optimization 960, 1680, 1682
  - , precolumn derivatization 959, 985
  - , preparative electrophoresis 44
  - , pulsed field (gel) electrophoresis 1421, 1473, 3002, 3043
  - , quantitation 1613, 1666
  - , sample application 1745
  - , — pretreatment 1728, 1906, 3174
  - , silver staining 1101
  - , theory of electrophoresis 1618, 2437
  - , two dimensional electrophoresis 1101, 1753, 1756, 1759, 1906, 2231, 2248, 2582, 2664, 2680
- RNA mapping *see* structural studies in individual entries in the List of Types of Compounds Chromatographed
- Sample application 22, 532, 660, 917, 1694, 1696, 1705, 1745(*review*)
- enrichment 1863, 1882, 1978, 2345, 2503
  - pretreatment 206, 1034, 1052, 1061, 1728(*review*), 1906(*review*), 2345, 2508
  - stacking 869, 1588, 1689, 2344, 2354, 2422, 2512, 2513, 3154
- Semi-dry electrotransfer *see* Blotting techniques
- Silver stain procedures 119, 248, 280, 306, 323, 353, 459, 676, 799, 801, 1066, 1095, 1097, 1101(*review*), 1112, 1126, 1141, 1180, 1194, 1288, 1289, 1298, 1307, 1373, 1378, 1795, 1876, 1878, 1925, 1930, 1970, 1984, 2004, 2010, 2037, 2091, 2093, 2098, 2109, 2113, 2117, 2119, 2120, 2134, 2161, 2312, 2740, 2741, 2757, 2761, 2848, 2853, 2918
- Simulation *see* Modeling
- Single cell gel electrophoresis assay 2293, 2303, 2316, 2321, 2444
- Sinusoidal electric field 2274
- field gel electrophoresis 3034
- Software *see* Computerization
- Solid friction in gel electrophoresis 759
- Southern blotting *see* Blotting techniques
- SSCP (single-strand conformation polymorphism) capillary electrophoresis 1478
- Staining, new 434
- Staining procedures *see* Silver stain procedures and other staining procedures
- —, comparison 2010
- Structure-retention relationships 1829
- Temperature control 856
- effects 59, 69, 938, 948, 949, 1053, 1409, 1543, 1602, 1729, 2338, 2352, 2353, 2537, 2549, 2674
  - *see also* Capillary zone electrophoresis, temperature effects
  - gradient gel electrophoresis (TGGE) 249, 602, 1373, 2154, 2276, 3057
  - low, electrophoresis 523, 1761
  - , subzero 1053
- Theory of electrophoresis 9-12, 71, 96, 104, 771-774, 875, 879, 897, 898, 904, 912, 922, 1405, 1618(*review*), 1627, 1711, 1717, 1722, 1737, 2254, 2311, 2437, 2442, 2447, 2448, 3046, 3051
- *see also* Capillary zone electrophoresis, theory
- Toluidine blue staining 147
- Transfer techniques *see* Blotting techniques; Electroblotting; Immunoblotting
- Tricine-SDS-polyacrylamide gel electrophoresis 2853
- Troubleshooting 1685
- Two dimensional electrophoresis 115-119, 194, 204, 205, 215, 231, 238, 245, 270, 276, 285, 306, 308, 323, 351, 359, 362, 363, 370, 372, 389, 632, 674, 741, 1086, 1094, 1099, 1112, 1121, 1125, 1126, 1135, 1141, 1143, 1168, 1176, 1180, 1193, 1194, 1197, 1213, 1214, 1316, 1362, 1419, 1439, 1562, 1754, 1755, 1757, 1758, 1809, 1827, 1868, 1869, 1872, 1884, 1885, 1899, 1904, 1911, 1912, 1927, 1940, 1951, 1961, 1962, 1971, 1976, 1984, 1990, 1997, 2012, 2015, 2030, 2031, 2033, 2051, 2071, 2073, 2109, 2145, 2158, 2277, 2292, 2309, 2524, 2578, 2601, 2628, 2647, 2657, 2662, 2668, 2669, 2704, 2709, 2731, 2738, 2739, 2770, 2787, 2794, 2799, 2837, 2849, 3006, 3093, 3167
- — —, affinity 2007, 2769
  - — —, combination with MS 115
  - — —, low temperature 1086
  - — —, preparative 118, 119
  - — —, reviews 1101, 1753, 1756, 1759, 1906, 2231, 2248, 2582, 2664, 2680
- Ultrathin layer electrophoresis 122, 635, 636, 3066
- Urea-polyacrylamide gel *see* Polyacrylamide-urea gel
- Vacuum blotting 696
- Validation 767, 1681, 3142
- N-vinylcarboxamide gels 2480
- Viscous polymer media 1661
- Voltage effect 938, 971, 1494, 2353, 2537, 2793, 3110, 3130
- Western blotting *see* Blotting techniques; Immunoblotting
- Zero integrated field electrophoresis 645
- Zymography *see* Detection and detectors, zymography