

Pavel Jandera

List of Publications by Year in descending order

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165
papers

8,083
citations

38742
50
h-index

60623
81
g-index

170
all docs

170
docs citations

170
times ranked

4507
citing authors

#	ARTICLE	IF	CITATIONS
1	Stationary and mobile phases in hydrophilic interaction chromatography: a review. <i>Analytica Chimica Acta</i> , 2011, 692, 1-25.	5.4	610
2	Characterization of triacylglycerol and diacylglycerol composition of plant oils using high-performance liquid chromatography–atmospheric pressure chemical ionization mass spectrometry. <i>Journal of Chromatography A</i> , 2003, 1010, 195-215.	3.7	302
3	Analytical monitoring of the production of biodiesel by high-performance liquid chromatography with various detection methods. <i>Journal of Chromatography A</i> , 1999, 858, 13-31.	3.7	256
4	Recent advances in stationary phases and understanding of retention in hydrophilic interaction chromatography. A review. <i>Analytica Chimica Acta</i> , 2017, 967, 12-32.	5.4	226
5	Stationary phases for hydrophilic interaction chromatography, their characterization and implementation into multidimensional chromatography concepts. <i>Journal of Separation Science</i> , 2008, 31, 1421-1437.	2.5	219
6	Quantitation of triacylglycerols in plant oils using HPLC with APCI-MS, evaporative light-scattering, and UV detection. <i>Journal of Separation Science</i> , 2005, 28, 1315-1333.	2.5	190
7	Molecularly imprinted polymer for solid-phase extraction of ephedrine and analogs from human plasma. <i>Journal of Separation Science</i> , 2009, 32, 1036-1042.	2.5	161
8	Reversed-phase liquid chromatography of homologous series. <i>Journal of Chromatography A</i> , 1984, 314, 13-36.	3.7	158
9	Gradient elution in liquid chromatography. <i>Journal of Chromatography A</i> , 1974, 91, 223-235.	3.7	128
10	Polymethacrylate monolithic columns for capillary liquid chromatography. <i>Journal of Separation Science</i> , 2008, 31, 2521-2540.	2.5	118
11	Silver-ion reversed-phase comprehensive two-dimensional liquid chromatography combined with mass spectrometric detection in lipidic food analysis. <i>Journal of Chromatography A</i> , 2005, 1086, 91-98.	3.7	115
12	Comparative characteristics of HPLC columns based on quantitative structure–retention relationships (QSRR) and hydrophobic-subtraction model. <i>Journal of Chromatography A</i> , 2005, 1075, 109-115.	3.7	108
13	RP-HPLC analysis of phenolic compounds and flavonoids in beverages and plant extracts using a CoulArray detector. <i>Journal of Separation Science</i> , 2005, 28, 1005-1022.	2.5	108
14	Elucidation of Carotenoid Patterns in Citrus Products by Means of Comprehensive Normal-Phase – Reversed-Phase Liquid Chromatography. <i>Analytical Chemistry</i> , 2006, 78, 7743-7750.	6.5	107
15	Advances in the development of organic polymer monolithic columns and their applications in food analysis – A review. <i>Journal of Chromatography A</i> , 2013, 1313, 37-53.	3.7	105
16	Characterization of polymer monolithic stationary phases for capillary HPLC. <i>Journal of Separation Science</i> , 2003, 26, 1005-1016.	2.5	96
17	Column selectivity for two-dimensional liquid chromatography. <i>Journal of Separation Science</i> , 2006, 29, 1763-1783.	2.5	94
18	Utilization of dual retention mechanism on columns with bonded PEG and diol stationary phases for adjusting the separation selectivity of phenolic and flavone natural antioxidants. <i>Journal of Separation Science</i> , 2009, 32, 3603-3619.	2.5	93

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19	Two-dimensional and serial column reversed-phase separation of phenolic antioxidants on octadecyl-, polyethyleneglycol-, and pentafluorophenylpropyl-silica columns. Journal of Separation Science, 2006, 29, 555-566.	2.5	90
20	Ion-exchange chromatography of aldehydes, ketones, ethers, alcohols, polyols and saccharides. Journal of Chromatography A, 1974, 98, 55-104.	3.7	89
21	Optimization of two-dimensional gradient liquid chromatography separations. Journal of Chromatography A, 2009, 1216, 3443-3457.	3.7	89
22	Dual hydrophilic interactionâ€RP retention mechanism on polar columns: Structural correlations and implementation for 2â€D separations on a single column. Journal of Separation Science, 2010, 33, 841-852.	2.5	88
23	Gradient elution in liquid chromatography. Journal of Chromatography A, 1979, 174, 35-50.	3.7	86
24	Can the theory of gradient liquid chromatography be useful in solving practical problems?. Journal of Chromatography A, 2006, 1126, 195-218.	3.7	85
25	High performance liquid chromatographyâ€mass spectrometric analysis of sulphonated dyes and intermediates. Journal of Chromatography A, 2001, 926, 175-186.	3.7	81
26	Development of different comprehensive two dimensional systems for the separation of phenolic antioxidants. Journal of Separation Science, 2006, 29, 2500-2513.	2.5	81
27	Comparison of retention behaviour of aromatic sulphonic acids in reversed-phase systems with mobile phases containing ion-pairing ions and in systems with solutions of inorganic salts as the mobile phases. Journal of Chromatography A, 1983, 262, 121-140.	3.7	74
28	Investigation of chromatographic behaviour of ethoxylated alcohol surfactants in normal-phase and reversed-phase systems using high-performance liquid chromatographyâ€mass spectrometry. Journal of Chromatography A, 1998, 813, 299-311.	3.7	72
29	Optimization of separation in two-dimensional high-performance liquid chromatography by adjusting phase system selectivity and using programmed elution techniques. Journal of Chromatography A, 2008, 1189, 207-220.	3.7	70
30	Adsorption of water from aqueous acetonitrile on silica-based stationary phases in aqueous normal-phase liquid chromatography. Journal of Chromatography A, 2014, 1374, 102-111.	3.7	70
31	Two-dimensional liquid chromatography normal-phase and reversed-phase separation of (co)oligomers. Journal of Chromatography A, 2006, 1119, 3-10.	3.7	69
32	Analysis of sulphonated dyes and intermediates by electrospray mass spectrometry. Dyes and Pigments, 1999, 43, 127-137.	3.7	68
33	Method for chromatization of selectivity in reversed-phase liquid chromatography. Journal of Chromatography A, 1986, 352, 91-110.	3.7	67
34	Retention mechanism, isocratic and gradient-elution separation and characterization of (co)polymers in normal-phase and reversed-phase high-performance liquid chromatography. Journal of Chromatography A, 2000, 869, 65-84.	3.7	67
35	Multidimensional LCâ€LC analysis of phenolic and flavone natural antioxidants with UVâ€electrochemical coulometric and MS detection. Journal of Separation Science, 2008, 31, 3309-3328.	2.5	65
36	Preparation and characterization of polymethacrylate monolithic capillary columns with dual hydrophilic interaction reversedâ€phase retention mechanism for polar compounds. Journal of Separation Science, 2009, 32, 2530-2543.	2.5	65

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37	Optimization of comprehensive two-dimensional gradient chromatography coupling in-line hydrophilic interaction and reversed phase liquid chromatography. Journal of Chromatography A, 2012, 1268, 91-101.	3.7	65
38	Molecular imprinting of natural flavonoid antioxidants: Application in solid-phase extraction for the sample pretreatment of natural products prior to HPLC analysis. Journal of Separation Science, 2006, 29, 2310-2321.	2.5	63
39	Separation of aromatic sulphonic acid dye intermediates by high-performance liquid chromatography and capillary zone electrophoresis. Journal of Chromatography A, 1996, 738, 201-213.	3.7	62
40	Programmed elution in comprehensive two-dimensional liquid chromatography. Journal of Chromatography A, 2012, 1255, 112-129.	3.7	61
41	Gradient elution in normal-phase high-performance liquid chromatographic systems. Journal of Chromatography A, 2002, 965, 239-261.	3.7	59
42	Characterization of polymer-based monolithic capillary columns by inverse size-exclusion chromatography and mercury-intrusion porosimetry. Journal of Chromatography A, 2008, 1182, 161-168.	3.7	59
43	Methods for characterization of selectivity in reversed-phase liquid chromatography. Journal of Chromatography A, 1988, 449, 361-389.	3.7	57
44	Gradient elution in liquid chromatography. Journal of Chromatography A, 1981, 214, 35-46.	3.7	56
45	Predictive calculation methods for optimization of gradient elution using binary and ternary solvent gradients. Journal of Chromatography A, 1989, 485, 113-141.	3.7	56
46	Recent advances in the design of organic polymer monoliths for reversed-phase and hydrophilic interaction chromatography separations of small molecules. Analytical and Bioanalytical Chemistry, 2013, 405, 2123-2131.	3.7	56
47	Reversed-phase liquid chromatography of aromatic sulphonic acids and other strongly polar compounds without addition of an ion-pairing counter-ion. Journal of Chromatography A, 1980, 197, 181-187.	3.7	55
48	Comparison of monolithic silica and polymethacrylate capillary columns for LC. Journal of Separation Science, 2004, 27, 789-800.	2.5	55
49	Determination of the polyphenolic content of a <i>Capsicum annuum</i> L. extract by liquid chromatography coupled to photodiode array and mass spectrometry detection and evaluation of its biological activity. Journal of Separation Science, 2015, 38, 171-178.	2.5	54
50	Polymethacrylate monolithic and hybrid particle-monolithic columns for reversed-phase and hydrophilic interaction capillary liquid chromatography. Journal of Chromatography A, 2010, 1217, 22-33.	3.7	52
51	Possibilities of determination and prediction of solute capacity factors in reversed-phase systems with pure water as the mobile phase. Journal of Chromatography A, 1990, 500, 281-299.	3.7	51
52	Effect of the sample solvent on band profiles in preparative liquid chromatography using non-aqueous reversed-phase high-performance liquid chromatography. Journal of Chromatography A, 1991, 588, 1-14.	3.7	51
53	Molecularly imprinted polymers and their application in solid phase extraction. Journal of Separation Science, 2009, 32, 799-812.	2.5	51
54	Comparison of various second-dimensional gradient types in comprehensive two-dimensional liquid chromatography. Journal of Separation Science, 2010, 33, 1382-1397.	2.5	51

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55	Effects of the gradient profile, sample volume and solvent on the separation in very fast gradients, with special attention to the second-dimension gradient in comprehensive two-dimensional liquid chromatography. <i>Journal of Chromatography A</i> , 2011, 1218, 1995-2006.	3.7	49
56	Comparison of various stationary phases for normal-phase high-performance liquid chromatography of ethoxylated alkylphenols. <i>Journal of Chromatography A</i> , 1990, 504, 297-318.	3.7	47
57	Monolithic and core-shell columns in comprehensive two-dimensional HPLC: a review. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 139-151.	3.7	47
58	Effect of the mobile phase on the retention behaviour of optical isomers of carboxylic acids and amino acids in liquid chromatography on bonded Teicoplanin columns. <i>Journal of Chromatography A</i> , 2001, 917, 123-133.	3.7	46
59	Optimisation of gradient HPLC analysis of phenolic compounds and flavonoids in beer using a CoulArray detector. <i>Journal of Separation Science</i> , 2004, 27, 1345-1359.	2.5	46
60	Mobile phase effects on the retention on polar columns with special attention to the dual hydrophilic interaction-reversed-phase liquid chromatography mechanism, a review. <i>Journal of Separation Science</i> , 2018, 41, 145-162.	2.5	45
61	Gradient elution in aqueous normal-phase liquid chromatography on hydrosilated silica-based stationary phases. <i>Journal of Chromatography A</i> , 2013, 1286, 111-118.	3.7	44
62	Effects of the operation parameters on Hydrophilic Interaction Liquid Chromatography separation of phenolic acids on zwitterionic monolithic capillary columns. <i>Journal of Chromatography A</i> , 2010, 1217, 7981-7989.	3.7	43
63	The effect of temperature and mobile phase composition on separation mechanism of flavonoid compounds on hydrosilated silica-based columns. <i>Journal of Chromatography A</i> , 2012, 1245, 98-108.	3.7	43
64	Cross-linker effects on the separation efficiency on (poly)methacrylate capillary monolithic columns. Part I. Reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , 2013, 1274, 97-106.	3.7	43
65	Analysis of the band profiles of the enantiomers of phenylglycine in liquid chromatography on bonded teicoplanin columns using the stochastic theory of chromatography. <i>Journal of Chromatography A</i> , 2001, 919, 67-77.	3.7	42
66	Preparation of monolithic columns with target mesopore-size distribution for potential use in size-exclusion chromatography. <i>Journal of Chromatography A</i> , 2007, 1150, 279-289.	3.7	42
67	Characterization of HPLC columns for two-dimensional LC-MS separations of phenolic acids and flavonoids. <i>Journal of Chemometrics</i> , 2008, 22, 203-217.	1.3	42
68	Cross-linker effects on the separation efficiency on (poly)methacrylate capillary monolithic columns. Part II. Aqueous normal-phase liquid chromatography. <i>Journal of Chromatography A</i> , 2013, 1289, 47-57.	3.7	42
69	Correlation of retention and selectivity of separation in reversed-phase high-performance liquid chromatography with interaction indices and with lipophilic and polar structural indices. <i>Journal of Chromatography A</i> , 1993, 656, 437-467.	3.7	40
70	Fitting adsorption isotherms to the distribution data determined using packed micro-columns for high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2001, 925, 19-29.	3.7	38
71	Temperature effects on separation on zirconia columns: Applications to one- and two-dimensional LC separations of phenolic antioxidants. <i>Journal of Separation Science</i> , 2007, 30, 462-474.	2.5	38
72	Alkylated poly(styrene-divinylbenzene) monolithic columns for HPLC and CEC separation of phenolic acids. <i>Journal of Separation Science</i> , 2007, 30, 3018-3026.	2.5	38

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73	New zwitterionic polymethacrylate monolithic columns for one- and two-dimensional microliquid chromatography. <i>Journal of Separation Science</i> , 2013, 36, 2430-2440.	2.5	36
74	Method for characterization of selectivity in reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , 1986, 352, 111-126.	3.7	35
75	Hydrosilated silica-based columns: The effects of mobile phase and temperature on dual hydrophilic-reversed-phase separation mechanism of phenolic acids. <i>Journal of Chromatography A</i> , 2012, 1228, 125-134.	3.7	35
76	Gradient elution in liquid chromatography. <i>Journal of Chromatography A</i> , 1975, 115, 9-32.	3.7	34
77	Impact of adsorption isotherm parameters on the performance of enantioseparation using simulated moving bed chromatography. <i>Journal of Chromatography A</i> , 2002, 944, 249-262.	3.7	34
78	Gradient elution in liquid chromatography. <i>Journal of Chromatography A</i> , 1980, 192, 19-36.	3.7	33
79	Phase system selectivity and two-dimensional separations in liquid column chromatography. <i>Journal of Chromatography A</i> , 2005, 1087, 112-123.	3.7	33
80	Comparison of High-Temperature Gradient Heart-Cutting and Comprehensive LC-ÅLC Systems for the Separation of Phenolic Antioxidants. <i>Chromatographia</i> , 2007, 66, 661-667.	1.3	33
81	Description of adsorption equilibria in liquid chromatography systems with binary mobile phases. <i>Journal of Chromatography A</i> , 2001, 908, 3-17.	3.7	31
82	Ion-pairing high-performance liquid chromatography-mass spectrometry of impurities and reduction products of sulphonated azodyes. <i>Journal of Separation Science</i> , 2003, 26, 1017-1027.	2.5	31
83	A study of the effects of column porosity on gradient separations of proteins. <i>Journal of Chromatography A</i> , 2007, 1167, 63-75.	3.7	31
84	Separation of isomeric naphthalenesulphonic acids by micro high-performance liquid chromatography with mobile phases containing cyclodextrin. <i>Journal of Chromatography A</i> , 2000, 871, 139-152.	3.7	30
85	Characterization of stationary phases for reversed-phase chromatography. <i>Journal of Separation Science</i> , 2010, 33, 453-463.	2.5	30
86	Optimization of the recovery yield and of the production rate in overloaded gradient-elution reversed-phase chromatography. <i>Journal of Chromatography A</i> , 1998, 796, 115-127.	3.7	29
87	Post-Polymerization Modifications of Polymeric Monolithic Columns: A Review. <i>Chromatography (Basel)</i> , 2014, 1, 24-53.	1.2	29
88	Separation of flavonoids on different phenyl-bonded stationary phases-the influence of polar groups in stationary phase structure. <i>Journal of Chromatography A</i> , 2016, 1429, 198-206.	3.7	29
89	Analysis of electrochemical degradation products of sulphonated azo dyes using high-performance liquid chromatography/tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 2807-2815.	1.5	28
90	Capillary electrophoretic chiral separation of <i>Cinchona</i> alkaloids using a cyclodextrin selector. <i>Journal of Separation Science</i> , 2008, 31, 1130-1136.	2.5	28

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91	Separation of phenolic acids and flavone natural antioxidants by two-dimensional method combining liquid chromatography and micellar electrokinetic capillary chromatography. <i>Electrophoresis</i> , 2010, 31, 2200-2210.	2.4	28
92	Isocratic and gradient-elution liquid chromatography of styrene oligomers on silica gel. <i>Journal of Chromatography A</i> , 1986, 362, 325-343.	3.7	27
93	Effects of the working electrolyte (cyclodextrin type and pH) on the separation of aromatic sulphonic acids by capillary zone electrophoresis. <i>Journal of Chromatography A</i> , 1997, 772, 385-396.	3.7	27
94	Naphthalene sulphonic acids—new test compounds for characterization of the columns for reversed-phase chromatography. <i>Journal of Chromatography A</i> , 2004, 1059, 61-72.	3.7	27
95	Gradient elution in liquid chromatography. <i>Journal of Chromatography A</i> , 1979, 170, 1-10.	3.7	26
96	Analysis of metal complex azo dyes by high-performance liquid chromatography/electrospray ionization mass spectrometry and multistage mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2000, 14, 1881-1888.	1.5	26
97	Analysis of sulphonated azodyes and their degradation products in aqueous solutions treated with a new electrochemical method. <i>International Journal of Environmental Analytical Chemistry</i> , 2004, 84, 875-888.	3.3	26
98	Automated dual two-dimensional liquid chromatography approach for fast acquisition of three-dimensional data using combinations of zwitterionic polymethacrylate and silica-based monolithic columns. <i>Journal of Chromatography A</i> , 2016, 1446, 91-102.	3.7	26
99	Gradient elution in liquid chromatography. <i>Journal of Chromatography A</i> , 1980, 192, 37-51.	3.7	25
100	Controlling the retention in capillary LC with solvents, temperature, and electric fields. <i>Journal of Separation Science</i> , 2004, 27, 1402-1418.	2.5	25
101	Retention and selectivity tests of silica-based and metal-oxide bonded stationary phases for RP-HPLC. <i>Journal of Separation Science</i> , 2006, 29, 856-871.	2.5	25
102	Fitting competitive adsorption isotherms to the experimental distribution data in reversed-phase systems. <i>Journal of Chromatography A</i> , 1997, 762, 3-13.	3.7	24
103	Effects of the gradient profile on the production rate in reversed-phase gradient elution overloaded chromatography. <i>Journal of Chromatography A</i> , 1997, 760, 25-39.	3.7	24
104	Retention Behavior of Oligomers and Cooligomers in Reversed-phase and in Normal-phase Interactive Liquid Chromatographic Systems. <i>International Journal of Polymer Analysis and Characterization</i> , 2001, 6, 261-294.	1.9	24
105	Retention times and bandwidths in reversed-phase gradient liquid chromatography of peptides and proteins. <i>Journal of Chromatography A</i> , 2011, 1218, 8874-8889.	3.7	24
106	Comprehensive two-dimensional liquid chromatography — practical impacts of theoretical considerations. A review. <i>Open Chemistry</i> , 2012, 10, 844-875.	1.9	24
107	Polymethacrylate monolithic columns for hydrophilic interaction liquid chromatography prepared using a secondary surface polymerization. <i>Journal of Chromatography A</i> , 2015, 1402, 82-93.	3.7	24
108	Thermodynamics Study of Solvent Adsorption on Octadecyl-Modified Silica. <i>Chromatographia</i> , 2015, 78, 21-30.	1.3	23

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109	Mobile phase effects on single-component and competitive adsorption isotherms in reversed-phase systems. <i>Journal of Chromatography A</i> , 1996, 734, 125-136.	3.7	22
110	Characterisation of retention in micellar high-performance liquid chromatography and in micellar electrokinetic chromatography using lipophilicity and polarity indices. <i>Journal of Chromatography A</i> , 1998, 807, 57-70.	3.7	22
111	Stationary-phase effects in gradient high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2004, 1030, 33-41.	3.7	22
112	Polymetacrylate and hybrid interparticle monolithic columns for fast separations of proteins by capillary liquid chromatography. <i>Journal of Chromatography A</i> , 2006, 1109, 60-73.	3.7	21
113	Effects of functional monomers on retention behavior of small and large molecules in monolithic capillary columns at isocratic and gradient conditions. <i>Journal of Separation Science</i> , 2011, 34, 2054-2062.	2.5	21
114	Characterisation of retention in micellar high-performance liquid chromatography, in micellar electrokinetic chromatography and in micellar electrokinetic chromatography with reduced flow. <i>Journal of Chromatography A</i> , 2001, 914, 233-244.	3.7	19
115	A model of flow-through pore formation in methacrylate ester-based monolithic columns. <i>Journal of Separation Science</i> , 2006, 29, 1064-1073.	2.5	19
116	Behaviour of sulphonated azodyes in ion-pairing reversed-phase high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2007, 1143, 112-120.	3.7	19
117	Comparison of nonaqueous hydrophilic interaction chromatography with aqueous normal-phase chromatography on hydrosilated silica-based stationary phases. <i>Journal of Separation Science</i> , 2013, 36, 2753-2759.	2.5	19
118	Mobile phase effects in reversed-phase and hydrophilic interaction liquid chromatography revisited. <i>Journal of Chromatography A</i> , 2018, 1543, 48-57.	3.7	19
119	Chromatographic behaviour of phenylurea pesticides in high-performance liquid chromatography with nitrile- and amino-bonded stationary phases. <i>Journal of Chromatography A</i> , 1994, 684, 77-92.	3.7	18
120	Oxygen attachment to metal complex ions during their collision induced dissociation in ion trap. <i>Rapid Communications in Mass Spectrometry</i> , 2000, 14, 1878-1879.	1.5	18
121	Characterization of High-Pressure Liquid Chromatography Columns using Chromatographic Methods. <i>Analytical Letters</i> , 2006, 39, 2095-2152.	1.8	18
122	Combined effects of mobile phase composition and temperature on the retention of homologous and polar test compounds on polydentate C8 column. <i>Journal of Chromatography A</i> , 2010, 1217, 6052-6060.	3.7	18
123	Improvement of the sensitivity of 2D LC-MEKC separation of phenolic acids and flavonoids natural antioxidants using the on-line preconcentration step. <i>Electrophoresis</i> , 2012, 33, 2464-2473.	2.4	18
124	Comparison of column properties in reversed-phase chromatography: monolithic, cholesterolic and mixed bonded stationary phases. <i>Analytica Chimica Acta</i> , 2005, 540, 127-137.	5.4	17
125	The influence of the organic modifier in hydro-organic mobile phase on separation selectivity of steroid hormones separation using cholesterol-bonded stationary phases. <i>Journal of Chromatography A</i> , 2012, 1245, 90-97.	3.7	17
126	Columns and optimum gradient conditions for fast second-dimension separations in comprehensive two-dimensional liquid chromatography. <i>Journal of Separation Science</i> , 2012, 35, 1712-1722.	2.5	17

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127	Solvent and temperature gradients in separation of synthetic oxyethylene-oxypropylene block (co)polymers using high-temperature liquid chromatography. <i>Journal of Separation Science</i> , 2006, 29, 1155-1165.	2.5	16
128	Effects of capillary coating and β -cyclodextrin additive to the background electrolyte on separation of sulphonated azodyes by capillary zone electrophoresis. <i>Journal of Chromatography A</i> , 2007, 1149, 358-367.	3.7	16
129	Retention and bandwidths prediction in fast gradient liquid chromatography. Part 2: Core-shell columns. <i>Journal of Chromatography A</i> , 2014, 1337, 57-66.	3.7	16
130	Gradient elution in liquid chromatography. <i>Journal of Chromatography A</i> , 1975, 104, 9-21.	3.7	15
131	Possibilities of retention prediction in fast gradient liquid chromatography. Part 3: Short silica monolithic columns. <i>Journal of Chromatography A</i> , 2015, 1410, 76-89.	3.7	15
132	Effect of water on the retention on diol and amide columns in hydrophilic interaction liquid chromatography. <i>Journal of Separation Science</i> , 2017, 40, 1434-1448.	2.5	15
133	Retention Models on Core-shell Columns. <i>Journal of AOAC INTERNATIONAL</i> , 2017, 100, 1636-1646.	1.5	15
134	Adsorption isotherms of cholesterol and related compounds in non-aqueous reversed-phase chromatographic systems. <i>Journal of Chromatography A</i> , 1992, 605, 1-17.	3.7	14
135	Dual Retention Mechanism in Two-Dimensional LC Separations of Barbiturates, Sulfonamides, Nucleic Bases and Nucleosides on Polymethacrylate Zwitterionic Monolithic Micro-Columns. <i>Chromatographia</i> , 2016, 79, 657-666.	1.3	14
136	Dual-mode hydrophilic interaction normal phase and reversed phase liquid chromatography of polar compounds on a single column. <i>Journal of Separation Science</i> , 2020, 43, 70-86.	2.5	14
137	Method for characterization of selectivity in reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , 1991, 556, 145-158.	3.7	13
138	Structural Analysis of Ionic Organotin(IV) Compounds Using Electrospray Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2006, 78, 4210-4218.	6.5	13
139	Fitting competitive adsorption isotherms to the distribution data in normal phase systems with binary mobile phases. <i>Journal of Chromatography A</i> , 1999, 831, 131-148.	3.7	12
140	Investigation of the temperature dependence of water adsorption on silica-based stationary phases in hydrophilic interaction liquid chromatography. <i>Journal of Chromatography A</i> , 2017, 1489, 143-148.	3.7	12
141	Effects of the composition of the mobile phase on the production rate in reversed-phase overloaded chromatography. <i>Journal of Chromatography A</i> , 1997, 787, 13-25.	3.7	10
142	Selectivity Tests of Stationary Phases for Reversed-Phase HPLC. <i>Analytical Letters</i> , 2011, 44, 1640-1662.	1.8	10
143	A study of the thermodynamics of retention of block (co)oligomers using high-performance liquid chromatography/mass spectrometry. <i>Journal of Chromatography A</i> , 2012, 1247, 89-98.	3.7	10
144	Comparison of four cholesterol-based stationary phases for the separation of steroid hormones. <i>Journal of Separation Science</i> , 2014, 37, 345-351.	2.5	10

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145	The effects of temperature and mobile phase on the retention of aliphatic carboxylic acids in hydrophilic interaction chromatography on zwitterionic stationary phases. <i>Journal of Separation Science</i> , 2016, 39, 4732-4739.	2.5	10
146	EOF in monolithic poly(styrene- <i>co</i> -divinylbenzene) capillary columns. <i>Electrophoresis</i> , 2009, 30, 583-588.	2.4	9
147	Interpretation of electrospray and atmospheric pressure chemical ionization mass spectra of 10-formyl-7,8-dihydrofolic acid and 5-formyl-5,6,7,8-tetrahydropteroic acid. , 1999, 13, 1423-1426.		8
148	Comparison of a C30 Bonded Silica Column and Columns with Shorter Bonded Ligands in Reversed-Phase LC. <i>Chromatographia</i> , 2015, 78, 861-871.	1.3	8
149	Possibilities of retention prediction in fast gradient liquid chromatography. Part 1: Comparison of separation on packed fully porous, nonporous and monolithic columns. <i>Journal of Chromatography A</i> , 2013, 1278, 37-45.	3.7	7
150	Separation of aromatic sulphonic acids by CZE in coated and non-coated capillaries. <i>Journal of Separation Science</i> , 2003, 26, 1035-1044.	2.5	6
151	Combined effects of mobile phase composition and temperature on the retention of phenolic antioxidants on an octylsilica polydentate column. <i>Journal of Chromatography A</i> , 2013, 1317, 49-58.	3.7	6
152	The Effects of the Column Length on the Efficiency of Capillary Zwitterionic Organic Polymer Monolithic Columns in HILIC Chromatography. <i>Chromatographia</i> , 2015, 78, 853-859.	1.3	6
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