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List of Publications by Year
in descending order

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286 papers	7,105 citations	61984 43 h-index	118850 62 g-index
293 all docs	293 docs citations	293 times ranked	2585 citing authors

#	Article	IF	Citations
1	Geometry-Independent Plate Height Representation Methods for the Direct Comparison of the Kinetic Performance of LC Supports with a Different Size or Morphology. Analytical Chemistry, 2005, 77, 4058-4070.	6.5	247
2	Performance of Monolithic Silica Capillary Columns with Increased Phase Ratios and Small-Sized Domains. Analytical Chemistry, 2006, 78, 7632-7642.	6.5	150
3	Pressure-Driven Reverse-Phase Liquid Chromatography Separations in Ordered Nonporous Pillar Array Columns. Analytical Chemistry, 2007, 79, 5915-5926.	6.5	149
4	Fundamentals for LC Miniaturization. Analytical Chemistry, 2013, 85, 543-556.	6.5	132
5	Silicaâ€“MOF Composites as a Stationary Phase in Liquid Chromatography. European Journal of Inorganic Chemistry, 2010, 2010, 3735-3738.	2.0	120
6	The kinetic plot method applied to gradient chromatography: Theoretical framework and experimental validation. Journal of Chromatography A, 2010, 1217, 2787-2795.	3.7	90
7	A Correlation for the Pressure Drop in Monolithic Silica Columns. Analytical Chemistry, 2003, 75, 843-850.	6.5	82
8	Practical Constraints in the Kinetic Plot Representation of Chromatographic Performance Data:Â Theory and Application to Experimental Data. Analytical Chemistry, 2006, 78, 2150-2162.	6.5	81
9	Measurements of diffusion coefficients in 1-D micro- and nanochannels using shear-driven flows. Lab on A Chip, 2005, 5, 1104.	6.0	80
10	Realization of 1 Ã— 10⁶ Theoretical Plates in Liquid Chromatography Using Very Long Pillar Array Columns. Analytical Chemistry, 2012, 84, 1214-1219.	6.5	79
11	The performance of hybrid monolithic silica capillary columns prepared by changing feed ratios of tetramethoxysilane and methyltrimethoxysilane. Journal of Chromatography A, 2010, 1217, 89-98.	3.7	77
12	Experimental Study of Porous Silicon Shell Pillars under Retentive Conditions. Analytical Chemistry, 2008, 80, 5391-5400.	6.5	76
13	Effective medium theory expressions for the effective diffusion in chromatographic beds filled with porous, non-porous and porous-shell particles and cylinders. Part I: Theory. Journal of Chromatography A, 2011, 1218, 32-45.	3.7	69
14	Errors involved in the existing B-term expressions for the longitudinal diffusion in fully porous chromatographic media. Journal of Chromatography A, 2008, 1188, 171-188.	3.7	67
15	Performance limits of monolithic and packed capillary columns in high-performance liquid chromatography and capillary electrochromatography. Journal of Chromatography A, 2006, 1104, 256-262.	3.7	66
16	Model column structure for the analysis of the flow and band-broadening characteristics of silica monoliths. Journal of Chromatography A, 2004, 1030, 177-186.	3.7	64
17	Experimental investigation of the difference in B-term dominated band broadening between fully porous and porous-shell particles for liquid chromatography using the Effective Medium Theory. Journal of Chromatography A, 2011, 1218, 4406-4416.	3.7	63
18	Retention modeling and method development in hydrophilic interaction chromatography. Journal of Chromatography A, 2014, 1337, 116-127.	3.7	63

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19	General Rules for the Optimal External Porosity of LC Supports. Analytical Chemistry, 2004, 76, 6707-6718.	6.5	62
20	Very High Efficiency Porous Silica Layer Open-Tubular Capillary Columns Produced via in-Column Solâ€“Gel Processing. Analytical Chemistry, 2016, 88, 10158-10166.	6.5	62
21	Total pore blocking as an alternative method for the on-column determination of the external porosity of packed and monolithic reversed-phase columns. Journal of Chromatography A, 2007, 1157, 131-141.	3.7	61
22	Integration of porous layers in ordered pillar arrays for liquid chromatography. Lab on A Chip, 2007, 7, 1705.	6.0	60
23	Kinetic plot method as a tool to design coupled column systems producing 100,000 theoretical plates in the shortest possible time. Journal of Chromatography A, 2008, 1212, 23-34.	3.7	60
24	Tryptic digest analysis by comprehensive reversed phaseÃ—two reversed phase liquid chromatography (RPâ€ŁCÃ—2RPâ€ŁC) at different pH's. Journal of Separation Science, 2009, 32, 1137-1144.	2.5	57
25	Improved Sensitivity in Low-Input Proteomics Using Micropillar Array-Based Chromatography. Analytical Chemistry, 2019, 91, 14203-14207.	6.5	57
26	On the possibility of shear-driven chromatography:. Journal of Chromatography A, 1999, 855, 57-70.	3.7	56
27	Detailed characterisation of the flow resistance of commercial sub-2Î¼m reversed-phase columns. Journal of Chromatography A, 2008, 1178, 108-117.	3.7	56
28	Equivalence of the Different C_m- and C_s-Term Expressions Used in Liquid Chromatography and a Geometrical Model Uniting Them. Analytical Chemistry, 2008, 80, 8076-8088.	6.5	56
29	Kinetic plot equations for evaluating the real performance of the combined use of high temperature and ultra-high pressure in liquid chromatography. Journal of Chromatography A, 2008, 1203, 124-136.	3.7	55
30	Influence of pressure and temperature on the physico-chemical properties of mobile phase mixtures commonly used in high-performance liquid chromatography. Journal of Chromatography A, 2008, 1210, 30-44.	3.7	55
31	Importance and Reduction of the Sidewall-Induced Band-Broadening Effect in Pressure-Driven Microfabricated Columns. Analytical Chemistry, 2004, 76, 4501-4507.	6.5	53
32	Morphological analysis of physically reconstructed capillary hybrid silica monoliths and correlation with separation efficiency. Journal of Chromatography A, 2011, 1218, 5187-5194.	3.7	53
33	Investigation of the validity of the kinetic plot method to predict the performance of coupled column systems operated at very high pressures under different thermal conditions. Journal of Chromatography A, 2009, 1216, 3895-3903.	3.7	52
34	The future of UHPLC: Towards higher pressure and/or smaller particles?. TrAC - Trends in Analytical Chemistry, 2014, 63, 65-75.	11.4	52
35	Future of high pressure liquid chromatography: Do we need porosity or do we need pressure?. Journal of Chromatography A, 2006, 1130, 158-166.	3.7	50
36	Kinetic plot based comparison of the efficiency and peak capacity of high-performance liquid chromatography columns: Theoretical background and selected examples. Journal of Chromatography A, 2012, 1228, 20-30.	3.7	49

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37	Rationale behind the optimum efficiency of columns packed with new 1.9Î¼m fully porous particles of narrow particle size distribution. Journal of Chromatography A, 2016, 1454, 78-85.	3.7	49
38	Relation between the particle size distribution and the kinetic performance of packed columns. Journal of Chromatography A, 2007, 1161, 224-233.	3.7	48
39	Effective medium theory expressions for the effective diffusion in chromatographic beds filled with porous, non-porous and porous-shell particles and cylinders. Part II: Numerical verification and quantitative effect of solid core on expected B-term band broadening. Journal of Chromatography A, 2011, 1218, 46-56.	3.7	48
40	Effect of pre- and post-column band broadening on the performance of high-speed chromatography columns under isocratic and gradient conditions. Journal of Chromatography A, 2016, 1442, 73-82.	3.7	48
41	The Possibility of Generating High-Speed Shear-Driven Flows and Their Potential Application in Liquid Chromatography. Analytical Chemistry, 2000, 72, 2160-2165.	6.5	47
42	Kinetic optimisation of open-tubular liquid-chromatography capillaries coated with thick porous layers for increased loadability. Journal of Chromatography A, 2011, 1218, 8388-8393.	3.7	45
43	Theoretical calculation of the retention enthalpy effect on the viscous heat dissipation band broadening in high performance liquid chromatography columns with a fixed wall temperature. Journal of Chromatography A, 2006, 1116, 89-96.	3.7	44
44	Thermal Modulation for Multidimensional Liquid Chromatography Separations Using Low-Thermal-Mass Liquid Chromatography (LC). Analytical Chemistry, 2011, 83, 7053-7060.	6.5	43
45	Design and evaluation of flow distributors for microfabricated pillar array columns. Lab on A Chip, 2010, 10, 349-356.	6.0	42
46	Fabrication and Chromatographic Performance of Porous-Shell Pillar-Array Columns. Analytical Chemistry, 2010, 82, 7208-7217.	6.5	41
47	High-resolution separations of protein isoforms with liquid chromatography time-of-flight mass spectrometry using polymer monolithic capillary columns. Journal of Chromatography A, 2011, 1218, 5504-5511.	3.7	41
48	Comparison of the gradient kinetic performance of silica monolithic capillary columns with columns packed with 3?m porous and 2.7?m fused-core silica particles. Journal of Chromatography A, 2012, 1228, 270-275.	3.7	41
49	Towards a solution for viscous heating in ultra-high pressure liquid chromatography using intermediate cooling. Journal of Chromatography A, 2010, 1217, 2022-2031.	3.7	40
50	Parameters affecting the separation of intact proteins in gradient-elution reversed-phase chromatography using poly(styrene-co-divinylbenzene) monolithic capillary columns. Journal of Chromatography A, 2010, 1217, 3085-3090.	3.7	40
51	Extra-column band broadening effects in contemporary liquid chromatography: Causes and solutions. TrAC - Trends in Analytical Chemistry, 2019, 119, 115619.	11.4	40
52	Selection of comparison criteria and experimental conditions to evaluate the kinetic performance of monolithic and packed-bed columns. Journal of Chromatography A, 2006, 1130, 108-114.	3.7	39
53	Graphical Data Representation Methods To Assess the Quality of LC Columns. Analytical Chemistry, 2015, 87, 8593-8602.	6.5	39
54	Merging Open-Tubular and Packed Bed Liquid Chromatography. Analytical Chemistry, 2015, 87, 7382-7388.	6.5	39

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55	Isocratic and gradient impedance plot analysis and comparison of some recently introduced large size coreâ€“shell and fully porous particles. Journal of Chromatography A, 2013, 1312, 80-86.	3.7	38
56	Methods for the experimental characterization and analysis of the efficiency and speed of chromatographic columns: A step-by-step tutorial. Analytica Chimica Acta, 2015, 894, 20-34.	5.4	38
57	Pillar-structured microchannels for on-chip liquid chromatography: Evaluation of the permeability and separation performance. Journal of Separation Science, 2007, 30, 1453-1460.	2.5	37
58	Numerical and analytical solutions for the column length-dependent band broadening originating from axisymmetrical trans-column velocity gradients. Journal of Chromatography A, 2009, 1216, 1325-1337.	3.7	37
59	Detailed characterization of the kinetic performance of first and second generation silica monolithic columns for reversed-phase chromatography separations. Journal of Chromatography A, 2014, 1325, 72-82.	3.7	37
60	Kinetic plot and particle size distribution analysis to discuss the performance limits of sub-2Î¼m and supra-2Î¼m particle columns. Journal of Chromatography A, 2008, 1204, 1-10.	3.7	36
61	Errors involved in the existing B-term expressions for the longitudinal diffusion in fully porous chromatographic media. Journal of Chromatography A, 2008, 1188, 189-198.	3.7	35
62	Extensive database of liquid phase diffusion coefficients of some frequently used test molecules in reversed-phase liquid chromatography and hydrophilic interaction liquid chromatography. Journal of Chromatography A, 2016, 1455, 102-112.	3.7	35
63	Ultra-rapid separation of an angiotensin mixture in nanochannels using shear-driven chromatography. Journal of Chromatography A, 2006, 1102, 96-103.	3.7	34
64	Method to predict and compare the influence of the particle size on the isocratic peak capacity of high-performance liquid chromatography columns. Journal of Chromatography A, 2007, 1147, 183-191.	3.7	34
65	Comparison of performance of highâ€performance liquid chromatography columns packed with superficially and fully porous 2.5â€‰Î¼m particles using kinetic plots. Journal of Separation Science, 2010, 33, 3655-3665.	2.5	34
66	Integration of uniform porous shell layers in very long pillar array columns using electrochemical anodization for liquid chromatography. Analyst, The, 2014, 139, 618-625.	3.5	34
67	Gradient-elution parameters in capillary liquid chromatography for high-speed separations of peptides and intact proteins. Journal of Chromatography A, 2014, 1355, 149-157.	3.7	34
68	High-efficiency high performance liquid chromatographic analysis of red wine anthocyanins. Journal of Chromatography A, 2011, 1218, 4660-4670.	3.7	33
69	High-speed isocratic and gradient liquid-chromatography separations at 1500bar. Journal of Chromatography A, 2015, 1409, 138-145.	3.7	33
70	The effect of hydrothermal treatment on column performance for monolithic silica capillary columns. Journal of Chromatography A, 2011, 1218, 3624-3635.	3.7	32
71	Possibilities of retention modeling and computer assisted method development in supercritical fluid chromatography. Journal of Chromatography A, 2015, 1381, 219-228.	3.7	32
72	A computational study of the porosity effects in silica monolithic columns. Journal of Separation Science, 2004, 27, 887-896.	2.5	31

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73	Domain Size-Induced Heterogeneity as Performance Limitation of Small-Domain Monolithic Columns and Other LC Support Types. Analytical Chemistry, 2006, 78, 6191-6201.	6.5	31
74	A discussion of the possible ways to improve the performance of silica monoliths using a kinetic plot analysis of experimental and computational plate height data. Journal of Separation Science, 2006, 29, 1675-1685.	2.5	31
75	Effect of polyethylene glycol on pore structure and separation efficiency of silica-based monolithic capillary columns. Journal of Chromatography A, 2016, 1442, 42-52.	3.7	31
76	Chromatographic explanation for the side-wall induced band broadening in pressure-driven and shear-driven flows through channels with a high aspect-ratio rectangular cross-section. Journal of Chromatography A, 2002, 946, 51-58.	3.7	30
77	DNA Microarray Enhancement Using a Continuously and Discontinuously Rotating Microchamber. Analytical Chemistry, 2005, 77, 4474-4480.	6.5	30
78	Performance evaluation of long monolithic silica capillary columns in gradient liquid chromatography using peptide mixtures. Journal of Chromatography A, 2011, 1218, 3360-3366.	3.7	30
79	On the Advantages of Radially Elongated Structures in Microchip-Based Liquid Chromatography. Analytical Chemistry, 2013, 85, 5207-5212.	6.5	30
80	Occurrence of turbulent flow conditions in supercritical fluid chromatography. Journal of Chromatography A, 2014, 1361, 277-285.	3.7	30
81	Approximate transient and long time limit solutions for the band broadening induced by the thin sidewall-layer in liquid chromatography columns. Journal of Chromatography A, 2007, 1172, 25-39.	3.7	29
82	Impact of the limitations of state-of-the-art micro-fabrication processes on the performance of pillar array columns for liquid chromatography. Journal of Chromatography A, 2012, 1239, 35-48.	3.7	29
83	Experimental demonstration of the possibility to perform shear-driven chromatographic separations in micro-channels. Journal of Chromatography A, 2001, 924, 111-122.	3.7	28
84	Selection of Column Dimensions and Gradient Conditions to Maximize the Peak-Production Rate in Comprehensive Off-Line Two-Dimensional Liquid Chromatography Using Monolithic Columns. Analytical Chemistry, 2010, 82, 7015-7020.	6.5	28
85	Design and evaluation of various methods for the construction of kinetic performance limit plots for supercritical fluid chromatography. Journal of Chromatography A, 2012, 1258, 152-160.	3.7	28
86	Exploring the Possibilities of Cryogenic Cooling in Liquid Chromatography for Biological Applications: A Proof of Principle. Analytical Chemistry, 2012, 84, 2031-2037.	6.5	28
87	High-speed gradient separations of peptides and proteins using polymer-monolithic poly(styrene-co-divinylbenzene) capillary columns at ultra-high pressure. Journal of Chromatography A, 2013, 1304, 177-182.	3.7	28
88	Evaluation and comparison of the kinetic performance of ultra-high performance liquid chromatography and high-performance liquid chromatography columns in hydrophilic interaction and reversed-phase liquid chromatography conditions. Journal of Chromatography A, 2014, 1369, 83-91.	3.7	28
89	Effect of the presence of an ordered micro-pillar array on the formation of silica monoliths. Journal of Chromatography A, 2009, 1216, 7360-7367.	3.7	27
90	Kinetic performance optimisation for liquid chromatography: Principles and practice. Journal of Separation Science, 2011, 34, 877-887.	2.5	27

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91	Capillary liquid chromatography separations using non-porous pillar array columns. Journal of Chromatography A, 2012, 1230, 41-47.	3.7	27
92	Experimental investigation of the band broadening originating from the top and bottom walls in micromachined nonporous pillar array columns. Journal of Separation Science, 2007, 30, 2605-2613.	2.5	26
93	High-resolution separations of tryptic digest mixtures using coreâ€“shell particulate columns operated at 1200bar. Journal of Chromatography A, 2012, 1264, 57-62.	3.7	26
94	Predictive Elution Window Stretching and Shifting as a Generic Search Strategy for Automated Method Development for Liquid Chromatography. Analytical Chemistry, 2012, 84, 7823-7830.	6.5	26
95	Assessment and numerical search for minimal Taylorâ€“Aris dispersion in micro-machined channels of nearly rectangular cross-section. Journal of Chromatography A, 2014, 1368, 70-81.	3.7	26
96	Understanding and diminishing the extra-column band broadening effects in supercritical fluid chromatography. Journal of Chromatography A, 2015, 1403, 132-137.	3.7	26
97	A theoretical study on the advantage of core-shell particles with radially-oriented mesopores. Journal of Chromatography A, 2016, 1456, 137-144.	3.7	26
98	A finite parallel zone model to interpret and extend Giddingsâ€™ coupling theory for the eddy-dispersion in porous chromatographic media. Journal of Chromatography A, 2013, 1314, 124-137.	3.7	25
99	A generic approach to post-column refocusing in liquid chromatography. Journal of Chromatography A, 2014, 1360, 164-171.	3.7	25
100	Peak deconvolution to correctly assess the band broadening of chromatographic columns. Journal of Chromatography A, 2016, 1465, 126-142.	3.7	25
101	Prototyping of thermoplastic microfluidic chips and their application in high-performance liquid chromatography separations of small molecules. Journal of Chromatography A, 2017, 1523, 224-233.	3.7	25
102	Chromatographic Properties of Minimal Aspect Ratio Monolithic Silica Columns. Analytical Chemistry, 2017, 89, 10948-10956.	6.5	25
103	Silica-based hybrid porous layers to enhance the retention and efficiency of open tubular capillary columns with a 5 Î¼m inner diameter. Journal of Chromatography A, 2018, 1580, 63-71.	3.7	25
104	Kinetic performance factor â€“ A measurable metric of separation-time-pressure tradeoff in liquid and gas chromatography. Journal of Chromatography A, 2018, 1567, 26-36.	3.7	25
105	Evaluation of the Kinetic Performance Differences between Hydrophilic-Interaction Liquid Chromatography and Reversed-Phase Liquid Chromatography under Conditions of Identical Packing Structure. Analytical Chemistry, 2015, 87, 12331-12339.	6.5	24
106	Peer Reviewed: Shear-Driven Flow Approaches to LC and Macromolecular Separations. Analytical Chemistry, 2004, 76, 430 A-438 A.	6.5	23
107	Kinetic performance limits of constant pressure versus constant flow rate gradient elution separations. Part I: Theory. Journal of Chromatography A, 2011, 1218, 1153-1169.	3.7	23
108	Maximizing the peak capacity using coupled columns packed with 2.6Î¼m coreâ€“shell particles operated at 1200bar. Journal of Chromatography A, 2012, 1256, 72-79.	3.7	23

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109	Capillary Ion Chromatography at High Pressure and Temperature. Analytical Chemistry, 2012, 84, 7212-7217.	6.5	23
110	Application of the isopycnic kinetic plot method for elucidating the potential of sub-2Âµm and coreâ€“shell particles in SFC. Talanta, 2013, 116, 1105-1112.	5.5	23
111	A high aspect ratio membrane reactor for liquidâ€“liquid extraction. Journal of Membrane Science, 2013, 436, 154-162.	8.2	23
112	Use of individual retention modeling for gradient optimization in hydrophilic interaction chromatography: Separation of nucleobases and nucleosides. Journal of Chromatography A, 2014, 1368, 125-131.	3.7	23
113	Applicability of linear and nonlinear retentionâ€time models for reversedâ€phase liquid chromatography separations of small molecules, peptides, and intact proteins. Journal of Separation Science, 2016, 39, 1249-1257.	2.5	23
114	Achieving a Peak Capacity of 1800 Using an 8 m Long Pillar Array Column. Analytical Chemistry, 2019, 91, 10932-10936.	6.5	23
115	Advances and Challenges in Extremely High-Pressure Liquid Chromatography in Current and Future Analytical Scale Column Formats. Analytical Chemistry, 2020, 92, 554-560.	6.5	23
116	Enhancing the Possibilities of Comprehensive Two-Dimensional Liquid Chromatography through Hyphenation of Purely Aqueous Temperature-Responsive and Reversed-Phase Liquid Chromatography. Analytical Chemistry, 2018, 90, 4961-4967.	6.5	22
117	Measurement and modelling of the intra-particle diffusion and b-term in reversed-phase liquid chromatography. Journal of Chromatography A, 2021, 1637, 461852.	3.7	22
118	Simultaneous optimization of the analysis time and the concentration detectability in open-tubular liquid chromatography. Journal of Chromatography A, 2000, 867, 23-43.	3.7	20
119	Use of kinetic plots for the optimization of the separation time in ultraâ€highâ€pressure LC. Journal of Separation Science, 2010, 33, 2629-2635.	2.5	20
120	Computer aided design optimisation of microfluidic flow distributors. Journal of Chromatography A, 2010, 1217, 6724-6732.	3.7	20
121	Kinetic performance limits of constant pressure versus constant flow rate gradient elution separations. Part II: Experimental. Journal of Chromatography A, 2011, 1218, 1170-1184.	3.7	20
122	New insights in the velocity dependency of the external mass transfer coefficient in 2D and 3D porous media for liquid chromatography. Journal of Chromatography A, 2012, 1227, 194-202.	3.7	20
123	Kinetic performance comparison of fully and superficially porous particles with a particle size of 5 Âµm: Intrinsic evaluation and application to the impurity analysis of griseofulvin. Talanta, 2014, 122, 122-129.	5.5	20
124	Peak refocusing using subsequent retentive trapping and strong eluent remobilization in liquid chromatography: A theoretical optimization study. Journal of Chromatography A, 2015, 1381, 74-86.	3.7	20
125	Design and evaluation of microfluidic devices for two-dimensional spatial separations. Journal of Chromatography A, 2016, 1434, 127-135.	3.7	20
126	Guidelines for tuning the macropore structure of monolithic columns for highâ€performance liquid chromatography. Journal of Separation Science, 2019, 42, 522-533.	2.5	20

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127	Use of 120-nm deep channels for liquid chromatographic separations. Journal of Chromatography A, 2008, 1189, 2-9.	3.7	19
128	Experimental Investigation of the Band Broadening Arising from Short-Range Interchannel Heterogeneities in Chromatographic Beds under the Condition of Identical External Porosity. Analytical Chemistry, 2009, 81, 705-715.	6.5	19
129	Experimental Optimization of Flow Distributors for Pressure-Driven Separations and Reactions in Flat-Rectangular Microchannels. Analytical Chemistry, 2011, 83, 467-477.	6.5	19
130	Extending the limits of operating pressure of narrow-bore column liquid chromatography instrumentation. Journal of Chromatography A, 2014, 1347, 56-62.	3.7	19
131	Temperature effects in supercritical fluid chromatography: A trade-off between viscous heating and decompression cooling. Journal of Chromatography A, 2014, 1365, 212-218.	3.7	19
132	Comparison and optimization of different peak integration methods to determine the variance of unretained and extra-column peaks. Journal of Chromatography A, 2014, 1364, 140-150.	3.7	19
133	A comprehensive study on the phenomenon of total breakthrough in liquid chromatography. Journal of Chromatography A, 2021, 1653, 462399.	3.7	19
134	A first principles explanation for the experimentally observed increase in A-term band broadening in small domain silica monoliths and other chromatographic supports. Journal of Chromatography A, 2005, 1077, 28-36.	3.7	18
135	State of the art of shear driven chromatography. Journal of Chromatography A, 2007, 1149, 2-11.	3.7	18
136	A study of the parameters affecting the accuracy of the total pore blocking method. Journal of Chromatography A, 2010, 1217, 6754-6761.	3.7	18
137	High performance liquid chromatography column packings with deliberately broadened particle size distribution: Relation between column performance and packing structure. Journal of Chromatography A, 2011, 1218, 6654-6662.	3.7	18
138	Modelling the thermal behaviour of the Low-Thermal Mass Liquid Chromatography system. Journal of Chromatography A, 2011, 1218, 2252-2263.	3.7	18
139	Comparison of the quantitative performance of constant pressure versus constant flow rate gradient elution separations using concentration-sensitive detectors. Journal of Chromatography A, 2012, 1232, 65-76.	3.7	18
140	Kinetic optimisation of the reversed phase liquid chromatographic separation of proanthocyanidins on sub-2Ï¼m and superficially porous phases. Journal of Chromatography A, 2012, 1236, 63-76.	3.7	18
141	Detailed kinetic performance analysis of micromachined radially elongated pillar array columns for liquid chromatography. Journal of Chromatography A, 2016, 1433, 75-84.	3.7	18
142	Methodologies to determine b-term coefficients revisited. Journal of Chromatography A, 2018, 1532, 124-135.	3.7	18
143	Two-dimensional insertable separation tool (TWIST) for flow confinement in spatial separations. Journal of Chromatography A, 2018, 1577, 120-123.	3.7	18
144	Pharmaceutical impurity analysis by comprehensive two-dimensional temperature responsiveÂÃ—Âreversed phase liquid chromatography. Journal of Chromatography A, 2020, 1630, 461561.	3.7	18

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145	Deep convolutional autoencoder for the simultaneous removal of baseline noise and baseline drift in chromatograms. Journal of Chromatography A, 2021, 1646, 462093.	3.7	18
146	Graph Convolutional Networks for Improved Prediction and Interpretability of Chromatographic Retention Data. Analytical Chemistry, 2021, 93, 15633-15641.	6.5	18
147	Suppression of the sidewall effect in pillar array columns with radially elongated pillars. Journal of Chromatography A, 2014, 1367, 118-122.	3.7	17
148	Metrics of separation performance in chromatography. Journal of Chromatography A, 2015, 1413, 9-21.	3.7	17
149	Comprehensive two-dimensional temperature-responsive Ã— reversed phase liquid chromatography for the analysis of wine phenolics. Talanta, 2022, 236, 122889.	5.5	17
150	High-Velocity Transport of Nanoparticles through 1-D Nanochannels at Very Large Particle to Channel Diameter Ratios. Analytical Chemistry, 2004, 76, 3005-3011.	6.5	16
151	Calculation of the geometrical three-point parameter constant appearing in the second order accurate effective medium theory expression for the B-term diffusion coefficient in fully porous and porous-shell random sphere packings. Journal of Chromatography A, 2012, 1223, 35-40.	3.7	16
152	Strategies to integrate porous layers in microfluidic devices. Microelectronic Engineering, 2015, 132, 1-13.	2.4	16
153	Comprehensive study of the macropore and mesopore size distributions in polymer monoliths using complementary physical characterization techniques and liquid chromatography. Journal of Separation Science, 2016, 39, 4492-4501.	2.5	16
154	Optimal Mixing Rate in Linear Solvent Strength Gradient Liquid Chromatography. Analytical Chemistry, 2016, 88, 2281-2288.	6.5	16
155	Optimum kinetic performance of open-tubular separations in microfluidic devices. Journal of Separation Science, 2007, 30, 1377-1397.	2.5	15
156	Miniaturized Detection System for Fluorescence and Absorbance Measurements in Chromatographic Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 140-150.	2.9	15
157	Visualization and quantification of the onset and the extent of viscous fingering in micro-pillar array columns. Journal of Chromatography A, 2009, 1216, 5511-5517.	3.7	15
158	Experimental study of the depth influence on the band broadening effect in a cyclo-olefin polymer column containing an array of ordered pillars. Journal of Chromatography A, 2010, 1217, 5817-5821.	3.7	15
159	Hydrodynamic chromatography separations in microâ€•and nanopillar arrays produced using deepâ€‹<scp>UV</scp> lithography. Journal of Separation Science, 2012, 35, 1877-1883.	2.5	15
160	The impact of flow distribution on column performance: A computational fluid dynamics study. Journal of Chromatography A, 2014, 1369, 125-130.	3.7	15
161	Kinetic plots for gas chromatography: Theory and experimental verification. Journal of Chromatography A, 2015, 1386, 81-88.	3.7	15
162	Problems involving the determination of the column-only band broadening in columns producing narrow and tailed peaks. Journal of Chromatography A, 2016, 1440, 74-84.	3.7	15

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163	Performance of small-domain monolithic silica columns in nano-liquid chromatography and comparison with commercial packed bed columns with 2 Âµm particles. Journal of Chromatography A, 2020, 1616, 460804.	3.7	15
164	A novel microstep device for the size separation of cells. Electrophoresis, 2004, 25, 1714-1722.	2.4	14
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