Fabrice G Gritti

List of Publications by Year
in descending order

273	10,106	32410 55	66518 82
papers	citations	h-index	g-index

276	276	276	2899
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Model of retention time and density of gradient peak capacity for improved LC-MS method optimization: Application to metabolomics. Analytica Chimica Acta, 2022, 1197, 339492.	2.6	1
2	On the road toward highly efficient and large volume threeâ€dimensionalâ€printed liquid chromatography columns?. Journal of Separation Science, 2022, 45, 3232-3240.	1.3	7
3	Perspective on the Future Approaches to Predict Retention in Liquid Chromatography. Analytical Chemistry, 2021, 93, 5653-5664.	3.2	43
4	Multiple-open-tubular column enabling transverse diffusion. Part 2: Channel size distribution and structure optimization. Journal of Chromatography A, 2021, 1642, 462033.	1.8	7
5	Theoretical study of the efficiency of liquid chromatography columns with particle size gradient. Journal of Chromatography A, 2021, 1651, 462331.	1.8	2
6	Rebirth of recycling liquid chromatography with modern chromatographic columns : Extension to gradient elution. Journal of Chromatography A, 2021, 1653, 462424.	1.8	8
7	Theoretical framework for mixer design for noise reduction and gradient fidelity. Journal of Chromatography A, 2021, 1653, 462357.	1.8	1
8	Extraction of intrinsic column peak profiles of narrow-bore and microbore columns by peak deconvolution methods. Analytica Chimica Acta, 2021, 1180, 338851.	2.6	6
9	Discrete Fourier transform techniques for noise reduction and digital enhancement of analytical signals. TrAC - Trends in Analytical Chemistry, 2021, 143, 116354.	5.8	28
10	Utility of linear and nonlinear models for retention prediction in liquid chromatography. Journal of Chromatography A, 2020, 1613, 460690.	1.8	14
11	Retention loss of reversed-phase chromatographic columns using 100% aqueous mobile phases from fundamental insights to best practice. Journal of Chromatography A, 2020, 1612, 460662.	1.8	16
12	Thermodynamic interpretation of the drift and noise of gradient baselines in reversed-phase liquid chromatography using mobile phase additives. Journal of Chromatography A, 2020, 1633, 461605.	1.8	6
13	Theoretical performance of multiple size-exclusion chromatography columns connected in series. Journal of Chromatography A, 2020, 1634, 461673.	1.8	8
14	Turbulent Supercritical Fluid Chromatography in Open-Tubular Columns for High-Throughput Separations. Analytical Chemistry, 2020, 92, 7409-7412.	3.2	6
15	Multiple-open-tubular column enabling transverse diffusion. Part 1: Band broadening model for accurate mass transfer predictions. Journal of Chromatography A, 2020, 1625, 461325.	1.8	13
16	Morphology-transport relationships in liquid chromatography: Application to method development in size exclusion chromatography. Journal of Chromatography A, 2020, 1620, 460991.	1.8	22
17	Evaluating MISER chromatography as a tool for characterizing HILIC column equilibration. Journal of Chromatography A, 2020, 1619, 460931.	1.8	8
18	Mismatch between sample diluent and eluent: Maintaining integrity of gradient peaks using in silico approaches. Journal of Chromatography A, 2019, 1608, 460414.	1.8	8

#	Article	IF	Citations
19	Theoretical Analysis of Efficiency of Multi-Layer Core-Shell Stationary Phases in the High Performance Liquid Chromatography of Large Biomolecules. Molecules, 2019, 24, 2849.	1.7	1
20	On the performance of conically shaped columns: Theory and practice. Journal of Chromatography A, 2019, 1593, 34-46.	1.8	7
21	Faster dewetting of water from C8- than from C18-bonded silica particles used in reversed-phase liquid chromatography: Solving the paradox. Journal of Chromatography A, 2019, 1602, 253-265.	1.8	14
22	The effect of column packing procedure on column end efficiency and on bed heterogeneity â€“ Experiments with flow-reversal. Journal of Chromatography A, 2019, 1603, 412-416.	1.8	15
23	Slow injector-to-column sample transport to maximize resolution in liquid chromatography: Theory versus practice. Journal of Chromatography A, 2019, 1600, 219-237.	1.8	5
24	Gradient method transfer after changing the average pore diameter of the chromatographic stationary phase I â€“ One-dimensional sample mixture. Journal of Chromatography A, 2019, 1597, 119-131.	1.8	6
25	Kinetic mechanism of water dewetting from hydrophobic stationary phases utilized in liquid chromatography. Journal of Chromatography A, 2019, 1596, 41-53.	1.8	19
26	Increasing chromatographic resolution of analytical signals using derivative enhancement approach. Talanta, 2019, 192, 492-499.	2.9	21
27	Power Law Approach as a Convenient Protocol for Improving Peak Shapes and Recovering Areas from Partially Resolved Peaks. Chromatographia, 2019, 82, 211-220.	0.7	18
28	Impact of frit dispersion on gradient performance in high-throughput liquid chromatography. Journal of Chromatography A, 2019, 1591, 110-119.	1.8	20
29	A stochastic view on column efficiency. Journal of Chromatography A, 2018, 1540, 55-67.	1.8	29
30	Chromatographic performance of microfluidic liquid chromatography devices: Experimental evaluation of straight versus serpentine packed channels. Journal of Chromatography A, 2018, 1533, 127-135.	1.8	5
31	On the relationship between radial structure heterogeneities and efficiency of chromatographic columns. Journal of Chromatography A, 2018, 1533, 112-126.	1.8	27
32	Performance optimization of ultra high-resolution recycling liquid chromatography. Journal of Chromatography A, 2018, 1532, 74-88.	1.8	17
33	Semi-preparative high-resolution recycling liquid chromatography. Journal of Chromatography A, 2018, 1566, 64-78.	1.8	13
34	High-resolution turbulent flow chromatography. Journal of Chromatography A, 2018, 1570, 135-147.	1.8	7
35	Characterization of radial and axial heterogeneities of chromatographic columns by flow reversal. Journal of Chromatography A, 2018, 1567, 164-176.	1.8	19
36	Molecular dispersion in pre-turbulent and sustained turbulent flow of carbon dioxide. Journal of Chromatography A, 2018, 1564, 176-187.	1.8	5

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37	Impact of straight, unconnected, radially-oriented, and tapered mesopores on column efficiency: A theoretical investigation. Journal of Chromatography A, 2017, 1485, 70-81.	1.8	10
38	Extension of Golay's plate height equation from laminar to turbulent flow I â€“ Theory. Journal of Chromatography A, 2017, 1492, 129-135.	1.8	9
39	Using the fundamentals of adsorption to understand peak distortion due to strong solvent effect in hydrophilic interaction chromatography. Journal of Chromatography A, 2017, 1489, 95-106.	1.8	15
40	Speed-resolution advantage of turbulent supercritical fluid chromatography in open tubular columns: II â€“ Theoretical and experimental evidences. Journal of Chromatography A, 2017, 1501, 142-150.	1.8	6
41	Ideal versus real automated twin column recycling chromatography process. Journal of Chromatography A, 2017, 1508, 81-94.	1.8	16
42	Applications of high-resolution recycling liquid chromatography: From small to large molecules. Journal of Chromatography A, 2017, 1524, 108-120.	1.8	20
43	Impact of instrument and column parameters on high-throughput liquid chromatography performance. Journal of Chromatography A, 2017, 1523, 215-223.	1.8	16
44	Intrinsic advantages of packed capillaries over narrow-bore columns in very high-pressure gradient liquid chromatography. Journal of Chromatography A, 2016, 1451, 107-119.	1.8	12
45	Achieving quasi-adiabatic thermal environment to maximize resolution power in very high-pressure liquid chromatography: Theory, models, and experiments. Journal of Chromatography A, 2016, 1444, 86-98.	1.8	22
46	Combined solvent- and non-uniform temperature-programmed gradient liquid chromatography. I â€“ A theoretical investigation. Journal of Chromatography A, 2016, 1473, 38-47.	1.8	4
47	Experimental evaluation of chromatographic performance of capillary and microfluidic columns with linear or curved channels. Journal of Chromatography A, 2016, 1470, 76-83.	1.8	8
48	Maximizing performance in supercritical fluid chromatography using low-density mobile phases. Journal of Chromatography A, 2016, 1468, 217-227.	1.8	11
49	Unexpected retention and efficiency behaviors in supercritical fluid chromatography: A thermodynamic interpretation. Journal of Chromatography A, 2016, 1468, 209-216.	1.8	10
50	Bridging the gap between gas and liquid chromatography. Journal of Chromatography A, 2016, 1472, 107-116.	1.8	3
51	Quasi-adiabatic vacuum-based column housing for very high-pressure liquid chromatography. Journal of Chromatography A, 2016, 1456, 226-234.	1.8	26
52	General theory of peak compression in liquid chromatography. Journal of Chromatography A, 2016, 1433, 114-122.	1.8	20
53	Introduction to â€œComparison between the efficiencies of columns packed with fully and partially porous C18-bonded silica materialsâ€•by F. Gritti, A. Cavazzini, N. Marchetti, G. Guiochon [J. Chromatogr. A 1157 (2007) 289â€“303]. Journal of Chromatography A, 2016, 1446, 13-14.	1.8	3
54	Hydrophilic interaction chromatography: A promising alternative to reversedâ€phase liquid chromatography systems for the purification of small protonated bases. Journal of Separation Science, 2015, 38, 1633-1641.	1.3	7

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55	The quantitative impact of the mesopore size on the mass transfer mechanism of the new 1.9 Î¼m fully porous Titan-C18 particles II â€“ Analysis of biomolecules. Journal of Chromatography A, 2015, 1392, 10-19.	1.8	12
56	The relative importance of the adsorption and partitioning mechanisms in hydrophilic interaction liquid chromatography. Journal of Chromatography A, 2015, 1376, 112-125.	1.8	51
57	The quantitative impact of the mesopore size on the mass transfer mechanism of the new 1.9 Î¼m fully porous Titan-C18 particles. I: Analysis of small molecules. Journal of Chromatography A, 2015, 1384, 76-87.	1.8	16
58	Accurate measurement of dispersion data through short and narrow tubes used in very high-pressure liquid chromatography. Journal of Chromatography A, 2015, 1410, 118-128.	1.8	25
59	Impact of the column hardware volume on resolution in very high pressure liquid chromatography non-invasive investigations. Journal of Chromatography A, 2015, 1420, 54-65.	1.8	25
60	Determination of the solvent density profiles across mesopores of silica-C18 bonded phases in contact with acetonitrile/water mixtures: A semi-empirical approach. Journal of Chromatography A, 2015, 1410, 90-98.	1.8	23
61	Retention Mechanism in Hydrophilic Interaction Liquid Chromatography New Insights Revealed From the Combination of Chromatographic and Molecular Dynamics Data. Journal of Chromatography & Separation Techniques, 2015, 06, .	0.2	3
62	Effects of the surface concentration of fixed charges in C18-bonded stationary phases on the adsorption process and on the preparative chromatography of small ionizable compounds. Journal of Chromatography A, 2014, 1372, 42-54.	1.8	7
63	Separation of peptides and intact proteins by electrostatic repulsion reversed phase liquid chromatography. Journal of Chromatography A, 2014, 1374, 112-121.	1.8	11
64	Response to â€œVelocity gradients in static chromatography always broaden the peaksâ€• Journal of Chromatography A, 2014, 1373, 220-221.	1.8	1
65	Accurate measurements of frontal analysis for the determination of adsorption isotherms in supercritical fluid chromatography. Journal of Chromatography A, 2014, 1329, 71-77.	1.8	17
66	Very high pressure liquid chromatography using fully porous particles: Quantitative analysis of fast gradient separations without post-run times. Journal of Chromatography A, 2014, 1324, 155-163.	1.8	3
67	Volume based vs. time based chromatograms: Reproducibility of data for gradient separations under high and low pressure conditions. Journal of Chromatography A, 2014, 1343, 79-90.	1.8	1
68	Rapid development of coreâ€“shell column technology: Accurate measurements of the intrinsic column efficiency of narrow-bore columns packed with 4.6 down to 1.3Î¼m superficially porous particles. Journal of Chromatography A, 2014, 1333, 60-69.	1.8	33
69	Evaluation of the kinetic performance of new prototype 2.1mmÃ—100mm narrow-bore columns packed with 1.6Î¼m superficially porous particles. Journal of Chromatography A, 2014, 1334, 30-43.	1.8	38
70	Effect of parallel segmented flow chromatography on the height equivalent to a theoretical plate III â€“ Influence of the column length, particle diameter, and the molecular weight of the analyte on the efficiency gain. Journal of Chromatography A, 2014, 1333, 32-44.	1.8	12
71	The distortion of gradient profiles in reversed-phase liquid chromatography. Journal of Chromatography A, 2014, 1340, 50-58.	1.8	28
72	Impact of the nature and composition of the mobile phase on the mass transfer mechanism in chiral reversed phase liquid chromatography. Application to the minimization of the solvent cost in chiral separations. Journal of Chromatography A, 2014, 1327, 57-65.	1.8	7

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73	Very high pressure liquid chromatography using core-shell particles: Quantitative analysis of fast gradient separations without post-run times. Journal of Chromatography A, 2014, 1325, 99-108.	1.8	9
74	Mass transport of small retained molecules in polymer-based monolithic columns. Journal of Chromatography A, 2014, 1362, 49-61.	1.8	26
75	The rationale for the optimum efficiency of columns packed with new 1.9Î¼m fully porous Titan-C18 particlesâ€"A detailed investigation of the intra-particle diffusivity. Journal of Chromatography A, 2014, 1355, 164-178.	1.8	42
76	Particle size distribution and column efficiency. An ongoing debate revived with 1.9Î¼m Titan-C18 particles. Journal of Chromatography A, 2014, 1355, 179-192.	1.8	35
77	Calculated and experimental chromatograms for distorted gradients and non-linear solvation strength retention models. Journal of Chromatography A, 2014, 1356, 96-104.	1.8	14
78	Possible resolution gain in enantioseparations afforded by coreâ€"shell particle technology. Journal of Chromatography A, 2014, 1348, 87-96.	1.8	22
79	The adsorption of naproxen enantiomers on the chiral stationary phase (R,R)-whelk-O1 under supercritical fluid conditions. Journal of Chromatography A, 2014, 1345, 200-206.	1.8	9
80	Mass transfer mechanism in chiral reversed phase liquid chromatography. Journal of Chromatography A, 2014, 1332, 35-45.	1.8	29
81	Band broadening along gradient reversed phase columns: A potential gain in resolution factor. Journal of Chromatography A, 2014, 1342, 24-29.	1.8	19
82	Effect of the pressure on pre-column sample dispersion theory, experiments, and practical consequences. Journal of Chromatography A, 2014, 1352, 20-28.	1.8	15
83	Accurate measurements of the true column efficiency and of the instrument band broadening contributions in the presence of a chromatographic column. Journal of Chromatography A, 2014, 1327, 49-56.	1.8	39
84	Separations by gradient elution: Why are steep gradient profiles distorted and what is their impact on resolution in reversed-phase liquid chromatography. Journal of Chromatography A, 2014, 1344, 66-75.	1.8	30
85	Effect of Adsorption on Solute Dispersion: A Microscopic Stochastic Approach. Analytical Chemistry, 2014, 86, 4463-4470.	3.2	32
86	Characterization and kinetic performance of 2.1 Ã— 100 mm production columns packed with new 1.6 Î¼m superficially porous particles. Journal of Separation Science, 2014, 37, 3418-3425.	1.3	9
87	Investigation of the axial heterogeneity of the retention factor of carbamazepine along an supercritical fluid chromatography column. I â€" Linear conditions. Journal of Chromatography A, 2013, 1306, 89-96.	1.8	9
88	Realization and potential advantages of gradient separations performed under steady state temperature regime. Journal of Chromatography A, 2013, 1291, 104-113.	1.8	14
89	Effect of parallel segmented flow chromatography on the height equivalent to a theoretical plate II â€" Performances of 4.6mmÃ—30mm columns packed with 2.6Î¼m Accucore-C18 superficially porous particles. Journal of Chromatography A, 2013, 1314, 44-53.	1.8	7
90	Effect of methanol concentration on the speed-resolution properties in adiabatic supercritical fluid chromatography. Journal of Chromatography A, 2013, 1314, 255-265.	1.8	8

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91	Speed-resolution properties of columns packed with new 4.6 Î¼m Kinetex-C18 coreâ€“shell particles. Journal of Chromatography A, 2013, 1280, 35-50.	1.8	51
92	How Microscopic Characteristics of the Adsorption Kinetics Impact Macroscale Transport in Chromatographic Beds. Journal of Physical Chemistry C, 2013, 117, 22974-22985.	1.5	36
93	Analytical Solution of the Ideal Model of Chromatography for a Bi-Langmuir Adsorption Isotherm. Analytical Chemistry, 2013, 85, 8552-8558.	3.2	17
94	The impact of column connection on band broadening in very high pressure liquid chromatography. Journal of Separation Science, 2013, 36, 2709-2717.	1.3	21
95	Removing the ambiguity of data processing methods: Optimizing the location of peak boundaries for accurate moment calculations. Journal of Separation Science, 2013, 36, 279-287.	1.3	26
96	Effect of the ionic strength on the adsorption process of an ionic surfactant onto a C18-bonded charged surface hybrid stationary phase at low pH. Journal of Chromatography A, 2013, 1282, 46-57.	1.8	24
97	Adsorption of cations onto positively charged surface mesopores. Journal of Chromatography A, 2013, 1318, 72-83.	1.8	10
98	Adsorption behaviors of neutral and ionizable compounds on hybrid stationary phases in the absence (BEH-C18) and the presence (CSH-C18) of immobile surface charges. Journal of Chromatography A, 2013, 1282, 58-71.	1.8	34
99	Limit of the speed-resolution properties in adiabatic supercritical fluid chromatography. Journal of Chromatography A, 2013, 1295, 114-127.	1.8	20
100	Determination of the adsorption isotherm of the naproxen enantiomers on (S,S)-Whelk-O1 in supercritical fluid chromatography. Journal of Chromatography A, 2013, 1314, 276-287.	1.8	15
101	Fast gradient separation by very high pressure liquid chromatography: Reproducibility of analytical data and influence of delay between successive runs. Journal of Chromatography A, 2013, 1318, 122-133.	1.8	3
102	Perspectives on the Evolution of the Column Efficiency in Liquid Chromatography. Analytical Chemistry, 2013, 85, 3017-3035.	3.2	97
103	Effect of the pH and the ionic strength on overloaded band profiles of weak bases onto neutral and charged surface hybrid stationary phases in reversed-phase liquid chromatography. Journal of Chromatography A, 2013, 1282, 113-126.	1.8	24
104	Gradient chromatography under constant frictional heat: Realization and application. Journal of Chromatography A, 2013, 1289, 1-12.	1.8	9
105	Investigations on the calculation of the third moments of elution peaks. IIâ€”Linear flow speed dependence of external mass transfer coefficient. Journal of Chromatography A, 2013, 1294, 41-49.	1.8	2
106	Interpretation of dynamic frontal analysis data in solid/supercritical fluid adsorption systems. I: Theory. Journal of Chromatography A, 2013, 1290, 73-81.	1.8	7
107	Comparison between the intra-particle diffusivity in the hydrophilic interaction chromatography and reversed phase liquid chromatography modes. Impact on the column efficiency. Journal of Chromatography A, 2013, 1297, 85-95.	1.8	56
108	Effect of parallel segmented flow chromatography on the height equivalent to a theoretical plate. Iâ€”Performance of 4.6 mm Ã— 30 mm columns packed with 3.0 Î¼m Hypurity-C18 fully porous particles. Journal of Chromatography A, 2013, 1297, 64-76.	1.8	18

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109	Mass transfer mechanism in hydrophilic interaction chromatography. Journal of Chromatography A, 2013, 1302, 55-64.	1.8	33
110	The van Deemter equation: Assumptions, limits, and adjustment to modern high performance liquid chromatography. Journal of Chromatography A, 2013, 1302, 1-13.	1.8	77
111	Potential advantage of constant pressure versus constant flow gradient chromatography for the analysis of small molecules. Journal of Chromatography A, 2012, 1263, 51-60.	1.8	16
112	Theoretical and experimental impact of the bed aspect ratio on the axial dispersion coefficient of columns packed with 2.5Î¼m particles. Journal of Chromatography A, 2012, 1262, 107-121.	1.8	26
113	Repeatability of the efficiency of columns packed with sub-3Î¼m coreâ€“shell particles: Part II. 2.7Î¼m Halo-ES-Peptide-C18 particles in 4.6mm and 2.1mmÃ—100mm column formats. Journal of Chromatography A, 2012, 1252, 45-55.	1.8	35
114	Repeatability of the efficiency of columns packed with sub-3Î¼m coreâ€“shell particles: Part I. 2.6Î¼m Kinetex-C18 particles in 4.6mm and 2.1mmÃ—100mm column formats. Journal of Chromatography A, 2012, 1252, 31-44.	1.8	48
115	Repeatability of the efficiency of columns packed with sub-3Î¼m coreâ€“shell particles: Part III. 2.7Î¼m Poroshell 120 EC-C18 particles in 4.6mm and 2.1mm Ã— 100mm column formats. Journal of Chromatography A, 2012, 1252, 56-66.	1.8	32
116	Theoretical comparison of the performance of gradient elution chromatography at constant pressure and constant flow rate. Journal of Chromatography A, 2012, 1253, 71-82.	1.8	12
117	How changing the particle structure can speed up protein mass transfer kinetics in liquid chromatography. Journal of Chromatography A, 2012, 1263, 84-98.	1.8	37
118	Abnormal Enhancement of the Photoisomerization Process in a trans-Nitroalkoxystilbene Dimer Sequestered in Î²-Cyclodextrin Cavities. Journal of Physical Chemistry A, 2012, 116, 10328-10337.	1.1	9
119	Optimization of the peak capacity per unit time. Journal of Chromatography A, 2012, 1263, 125-140.	1.8	15
120	Overload behavior and apparent efficiencies in chromatography. Journal of Chromatography A, 2012, 1254, 30-42.	1.8	26
121	A revisit of the concept of external film mass transfer resistance in the packed beds used in high-performance liquid chromatography. Chemical Engineering Science, 2012, 72, 108-114.	1.9	10
122	Mass transfer kinetics, band broadening and column efficiency. Journal of Chromatography A, 2012, 1221, 2-40.	1.8	242
123	The current revolution in column technology: How it began, where is it going?. Journal of Chromatography A, 2012, 1228, 2-19.	1.8	155
124	Investigations on the calculation of the third moments of elution peaks. I: Composite signals generated by adding up a mathematical function and experimental noise. Journal of Chromatography A, 2012, 1222, 81-89.	1.8	19
125	Measurement of the eddy dispersion term in chromatographic columns: III. Application to new prototypes of 4.6mm I.D. monolithic columns. Journal of Chromatography A, 2012, 1225, 79-90.	1.8	41
126	Measurement of the eddy dispersion term in chromatographic columns. II. Application to new prototypes of 2.3 and 3.2mm I.D. monolithic silica columns. Journal of Chromatography A, 2012, 1227, 82-95.	1.8	38

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127	Gradient HPLC of samples extracted from the green microalga Botryococcus braunii using highly efficient columns packed with 2.6Î¼m Kinetex-C18 coreâ€“shell particles. Journal of Chromatography A, 2012, 1229, 148-155.	1.8	11
128	Comparison of the fast gradient performance of new prototype silica monolithic columns and columns packed with fully porous and coreâ€“shell particles. Journal of Chromatography A, 2012, 1236, 28-41.	1.8	40
129	Kinetic performance of narrow-bore columns on a micro-system for high performance liquid chromatography. Journal of Chromatography A, 2012, 1236, 105-114.	1.8	15
130	Band broadening in fast gradient high-performance liquid chromatography: Application to the second generation of 4.6 mm I.D. silica monolithic columns. Journal of Chromatography A, 2012, 1238, 77-90.	1.8	36
131	Experimental validation of physico-chemical models of effective diffusion in chromatographic columns packed with superficially porous particles. Chemical Engineering Science, 2011, 66, 6168-6179.	1.9	33
132	Kinetic investigation of narrow-bore columns packed with prototype sub-2Î¼m superficially porous particles with various shell thickness. Journal of Chromatography A, 2011, 1218, 7078-7093.	1.8	24
133	Automated methods for the location of the boundaries of chromatographic peaks. Journal of Chromatography A, 2011, 1218, 8255-8263.	1.8	45
134	On the relationship between band broadening and the particle-size distribution of the packing material in liquid chromatography: Theory and practice.. Journal of Chromatography A, 2011, 1218, 8209-8221.	1.8	64
135	Diffusion models in chromatographic columns packed with fully and superficially porous particles. Chemical Engineering Science, 2011, 66, 3773-3781.	1.9	48
136	Shell particles, trials, tribulations and triumphs. Journal of Chromatography A, 2011, 1218, 1915-1938.	1.8	289
137	Theoretical investigation of diffusion along columns packed with fully and superficially porous particles. Journal of Chromatography A, 2011, 1218, 3476-3488.	1.8	66
138	On the minimization of the band-broadening contributions of a modern, very high pressure liquid chromatograph. Journal of Chromatography A, 2011, 1218, 4632-4648.	1.8	63
139	New insights on mass transfer kinetics in chromatography. AICHE Journal, 2011, 57, 333-345.	1.8	76
140	Importance of sample intraparticle diffusivity in investigations of the mass transfer mechanism in liquid chromatography. AICHE Journal, 2011, 57, 346-358.	1.8	73
141	Polynomial multivariate least-squares regression for modeling nonlinear data applied to in-depth characterization of chromatographic resolution. Journal of Chemometrics, 2011, 25, 575-585.	0.7	10
142	Kinetic investigation of the relationship between the efficiency of columns and their diameter. Journal of Chromatography A, 2011, 1218, 1592-1602.	1.8	61
143	Multi-location peak parking method: An important new tool for the study of mass transfer kinetics in liquid chromatography. Journal of Chromatography A, 2011, 1218, 896-906.	1.8	13
144	The mass transfer kinetics in columns packed with Halo-ES shell particles. Journal of Chromatography A, 2011, 1218, 907-921.	1.8	65

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145	Accurate measurements of peak variances: Importance of this accuracy in the determination of the true corrected plate heights of chromatographic columns. Journal of Chromatography A, 2011, 1218, 4452-4461.	1.8	77
146	Measurement of the eddy diffusion term in chromatographic columns. I. Application to the first generation of 4.6mm I.D. monolithic columns. Journal of Chromatography A, 2011, 1218, 5216-5227.	1.8	44
147	Modified Equilibrium-Dispersive Model for the interpretation of the efficiency of columns packed with coreâ€“shell particle. Journal of Chromatography A, 2011, 1218, 5449-5455.	1.8	18
148	Comparison of heat friction effects in narrow-bore columns packed with coreâ€“shell and totally porous particles. Chemical Engineering Science, 2010, 65, 6310-6319.	1.9	72
149	Non-invasive measurement of eddy diffusion in very efficient liquid chromatography columns packed with sub-3Î¼m shell particles. Chemical Engineering Science, 2010, 65, 6327-6340.	1.9	42
150	Impact of retention on transâ€column velocity biases in packed columns. AICHE Journal, 2010, 56, 1495-1509.	1.8	61
151	Features of the adsorption of Naproxen on the chiral stationary phase (S,S)-Whelk-O1 under reversed-phase conditions. Journal of Chromatography A, 2010, 1217, 264-275.	1.8	24
152	Efficiency of the same neat silica column in hydrophilic interaction chromatography and per aqueous liquid chromatography. Journal of Chromatography A, 2010, 1217, 683-688.	1.8	71
153	Performance of new prototype packed columns for very high pressure liquid chromatography. Journal of Chromatography A, 2010, 1217, 1485-1495.	1.8	50
154	Performance of columns packed with the new shell particles, Kinetex-C18. Journal of Chromatography A, 2010, 1217, 1589-1603.	1.8	203
155	Performance of columns packed with the new shell Kinetex-C18 particles in gradient elution chromatography. Journal of Chromatography A, 2010, 1217, 1604-1615.	1.8	138
156	Experimental evidence of a delta-shock in nonlinear chromatography. Journal of Chromatography A, 2010, 1217, 2002-2012.	1.8	48
157	Achieving the full performance of highly efficient columns by optimizing conventional benchmark high-performance liquid chromatography instruments. Journal of Chromatography A, 2010, 1217, 3000-3012.	1.8	154
158	Physical properties and structure of fine coreâ€“shell particles used as packing materials for chromatography. Journal of Chromatography A, 2010, 1217, 3819-3843.	1.8	178
159	Ï€-Selective stationary phases: (II) Adsorption behaviour of substituted aromatic compounds on n-alkyl-phenyl stationary phases. Journal of Chromatography A, 2010, 1217, 5365-5376.	1.8	14
160	Modeling of thermal processes in very high pressure liquid chromatography for column immersed in a water bath: Application of the selected models. Journal of Chromatography A, 2010, 1217, 4704-4712.	1.8	33
161	Ï€-Selective stationary phases: (III) Influence of the propyl phenyl ligand density on the aromatic and methylene selectivity of aromatic compounds in reversed phase liquid chromatography. Journal of Chromatography A, 2010, 1217, 5377-5383.	1.8	19
162	Mass transfer resistance in narrow-bore columns packed with 1.7m particles in very high pressure liquid chromatography. Journal of Chromatography A, 2010, 1217, 5069-5083.	1.8	89

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