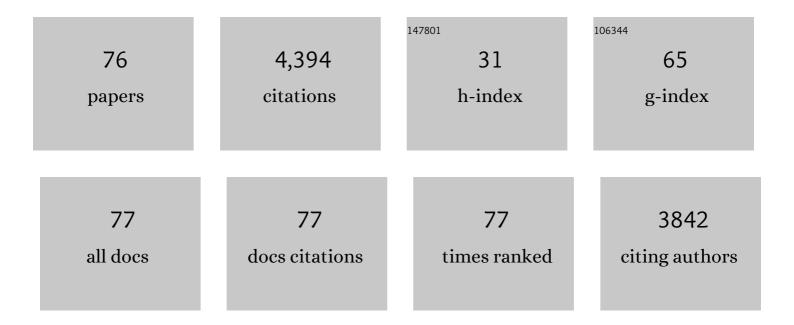
Martin Gilar

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Impact of Nonspecific Adsorption to Metal Surfaces in Ion Pair-RP LC-MS Impurity Analysis of Oligonucleotides. Journal of Pharmaceutical and Biomedical Analysis, 2022, 208, 114439.	2.8	18
2	Effect of ion-pairing reagent hydrophobicity on liquid chromatography and mass spectrometry analysis of oligonucleotides. Journal of Chromatography A, 2022, 1666, 462860.	3.7	29
3	Contribution of ionic interactions to stationary phase selectivity in hydrophilic interaction chromatography. Journal of Separation Science, 2022, 45, 3264-3275.	2.5	11
4	Phosphorothioate oligonucleotides separation in ion-pairing reversed-phase liquid chromatography: Effect of ion-pairing system. Journal of Chromatography A, 2022, 1676, 463201.	3.7	11
5	Using Hybrid Organic–Inorganic Surface Technology to Mitigate Analyte Interactions with Metal Surfaces in UHPLC. Analytical Chemistry, 2021, 93, 5773-5781.	6.5	41
6	Characterization and comparison of mixed-mode and reversed-phase columns; interaction abilities and applicability for peptide separation. Journal of Chromatography A, 2021, 1648, 462182.	3.7	13
7	Mitigation of analyte loss on metal surfaces in liquid chromatography. Journal of Chromatography A, 2021, 1650, 462247.	3.7	25
8	Assessing the impact of nonspecific binding on oligonucleotide bioanalysis. Bioanalysis, 2021, 13, 1233-1244.	1.5	14
9	Utility of linear and nonlinear models for retention prediction in liquid chromatography. Journal of Chromatography A, 2020, 1613, 460690.	3.7	14
10	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.	3.7	16
11	The effect of particle and ligand types on retention and peak shape in liquid chromatography. Microchemical Journal, 2020, 159, 105466.	4.5	6
12	Method for evaluation of ionic interactions in liquid chromatography. Journal of Chromatography A, 2020, 1625, 461301.	3.7	18
13	Evaluating MISER chromatography as a tool for characterizing HILIC column equilibration. Journal of Chromatography A, 2020, 1619, 460931.	3.7	8
14	Mismatch between sample diluent and eluent: Maintaining integrity of gradient peaks using in silico approaches. Journal of Chromatography A, 2019, 1608, 460414.	3.7	8
15	Systematic evaluation of selected supercritical fluid chromatography diol―and diethylamineâ€based columns for application in hydrophilic interaction liquid chromatography. Separation Science Plus, 2019, 2, 81-88.	0.6	9
16	Kinetic mechanism of water dewetting from hydrophobic stationary phases utilized in liquid chromatography. Journal of Chromatography A, 2019, 1596, 41-53.	3.7	19
17	Impact of frit dispersion on gradient performance in high-throughput liquid chromatography. Journal of Chromatography A, 2019, 1591, 110-119.	3.7	20
18	Chromatographic performance of microfluidic liquid chromatography devices: Experimental evaluation of straight versus serpentine packed channels. Journal of Chromatography A, 2018, 1533, 127-135.	3.7	5

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19	Semi-preparative high-resolution recycling liquid chromatography. Journal of Chromatography A, 2018, 1566, 64-78.	3.7	13
20	Performance comparison of three trypsin columns used in liquid chromatography. Journal of Chromatography A, 2017, 1490, 126-132.	3.7	20
21	Ideal versus real automated twin column recycling chromatography process. Journal of Chromatography A, 2017, 1508, 81-94.	3.7	16
22	Applications of high-resolution recycling liquid chromatography: From small to large molecules. Journal of Chromatography A, 2017, 1524, 108-120.	3.7	20
23	Impact of instrument and column parameters on high-throughput liquid chromatography performance. Journal of Chromatography A, 2017, 1523, 215-223.	3.7	16
24	Reduction of metal adducts in oligonucleotide mass spectra in ionâ€pair reversedâ€phase chromatography/mass spectrometry analysis. Rapid Communications in Mass Spectrometry, 2016, 30, 1667-1679.	1.5	37
25	Intrinsic advantages of packed capillaries over narrow-bore columns in very high-pressure gradient liquid chromatography. Journal of Chromatography A, 2016, 1451, 107-119.	3.7	12
26	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.	3.7	22
27	Experimental evaluation of chromatographic performance of capillary and microfluidic columns with linear or curved channels. Journal of Chromatography A, 2016, 1470, 76-83.	3.7	8
28	Maximizing performance in supercritical fluid chromatography using low-density mobile phases. Journal of Chromatography A, 2016, 1468, 217-227.	3.7	11
29	Bridging the gap between gas and liquid chromatography. Journal of Chromatography A, 2016, 1472, 107-116.	3.7	3
30	Quasi-adiabatic vacuum-based column housing for very high-pressure liquid chromatography. Journal of Chromatography A, 2016, 1456, 226-234.	3.7	26
31	Measurement and Modeling of Extra-Column Effects Due to Injection and Connections in Capillary Liquid Chromatography. Chromatography (Basel), 2015, 2, 669-690.	1.2	30
32	Repetitive injection method: A tool for investigation of injection zone formation and its compression in microfluidic liquid chromatography. Journal of Chromatography A, 2015, 1381, 110-117.	3.7	16
33	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.	3.7	25
34	Insight into Trypsin Miscleavage: Comparison of Kinetic Constants of Problematic Peptide Sequences. Analytical Chemistry, 2015, 87, 7636-7643.	6.5	77
35	Wide injection zone compression in gradient reversed-phase liquid chromatography. Journal of Chromatography A, 2015, 1390, 86-94.	3.7	20
36	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.	3.7	25

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37	Solvent selectivity and strength in reversed-phase liquid chromatography separation of peptides. Journal of Chromatography A, 2014, 1337, 140-146.	3.7	13
38	Properties of two amideâ€based hydrophilic interaction liquid chromatography columns. Journal of Separation Science, 2013, 36, 2421-2429.	2.5	27
39	Comparison of Orthogonality Estimation Methods for the Two-Dimensional Separations of Peptides. Analytical Chemistry, 2012, 84, 8722-8732.	6.5	77
40	Retention behavior of peptides in hydrophilic-interaction chromatography. Journal of Chromatography A, 2011, 1218, 8890-8896.	3.7	54
41	Characterization of glycoprotein digests with hydrophilic interaction chromatography and mass spectrometry. Analytical Biochemistry, 2011, 417, 80-88.	2.4	65
42	Utility of Retention Prediction Model for Investigation of Peptide Separation Selectivity in Reversed-Phase Liquid Chromatography: Impact of Concentration of Trifluoroacetic Acid, Column Temperature, Gradient Slope and Type of Stationary Phase. Analytical Chemistry, 2010, 82, 265-275.	6.5	60
43	Separation of 2-aminobenzamide labeled glycans using hydrophilic interaction chromatography columns packed with 1.7μm sorbent. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2010, 878, 403-408.	2.3	182
44	Ultraâ€performance liquid chromatography/tandem mass spectrometry (UPLC/MS/MS) and UPLC/MS ^E analysis of RNA oligonucleotides. Rapid Communications in Mass Spectrometry, 2010, 24, 2631-2640.	1.5	33
45	Rapid comparison of a candidate biosimilar to an innovator monoclonal antibody with advanced liquid chromatography and mass spectrometry technologies. MAbs, 2010, 2, 379-394.	5.2	127
46	Comparison of 1â€Ð and 2â€Ð LC MS/MS methods for proteomic analysis of human serum. Electrophoresis, 2009, 30, 1157-1167.	2.4	48
47	Phosphopeptide enrichment using microscale titanium dioxide solid phase extraction. Journal of Separation Science, 2009, 32, 1189-1199.	2.5	25
48	Reversed-phase ion-pair liquid chromatography analysis and purification of small interfering RNA. Analytical Biochemistry, 2009, 390, 181-188.	2.4	91
49	Characterization of Protein Impurities and Site-Specific Modifications Using Peptide Mapping with Liquid Chromatography and Data Independent Acquisition Mass Spectrometry. Analytical Chemistry, 2009, 81, 5699-5708.	6.5	38
50	Mixed-mode chromatography for fractionation of peptides, phosphopeptides, and sialylated glycopeptides. Journal of Chromatography A, 2008, 1191, 162-170.	3.7	65
51	Identification of N-Linked Glycosylation Sites Using Glycoprotein Digestion with Pronase Prior to MALDI Tandem Time-of-Flight Mass Spectrometry. Analytical Chemistry, 2007, 79, 1731-1738.	6.5	49
52	Peak capacity in gradient reversed-phase liquid chromatography of biopolymers. Journal of Chromatography A, 2007, 1169, 139-150.	3.7	78
53	Peptide retention prediction applied to proteomic data analysis. Rapid Communications in Mass Spectrometry, 2007, 21, 2813-2821.	1.5	37
54	A comparison of sample preparation methods for the study of the human serum proteome. FASEB Journal, 2006, 20, .	0.5	0

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55	Two-dimensional separation of peptides using RP-RP-HPLC system with different pH in first and second separation dimensions. Journal of Separation Science, 2005, 28, 1694-1703.	2.5	412
56	A rapid sample preparation method for mass spectrometric characterization of N-linked glycans. Rapid Communications in Mass Spectrometry, 2005, 19, 2331-2336.	1.5	86
57	Orthogonality of Separation in Two-Dimensional Liquid Chromatography. Analytical Chemistry, 2005, 77, 6426-6434.	6.5	726
58	A complete peptide mapping of membrane proteins: a novel surfactant aiding the enzymatic digestion of bacteriorhodopsin. Rapid Communications in Mass Spectrometry, 2004, 18, 711-715.	1.5	52
59	Electrospray ionization mass spectrometric analysis of nucleic acids using high-throughput on-line desalting. Rapid Communications in Mass Spectrometry, 2004, 18, 1295-1302.	1.5	24
60	Implications of column peak capacity on the separation of complex peptide mixtures in single- and two-dimensional high-performance liquid chromatography. Journal of Chromatography A, 2004, 1061, 183-192.	3.7	157
61	Purification of dye-labeled oligonucleotides by ion-pair reversed-phase high-performance liquid chromatography. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2003, 783, 61-72.	2.3	22
62	Analysis of native and chemically modified oligonucleotides by tandem ion-pair reversed-phase high-performance liquid chromatography/electrospray ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2003, 17, 646-653.	1.5	111
63	Enzyme-Friendly, Mass Spectrometry-Compatible Surfactant for In-Solution Enzymatic Digestion of Proteins. Analytical Chemistry, 2003, 75, 6023-6028.	6.5	296
64	Characterization of Therapeutic Oligonucleotides Using Liquid Chromatography with On-line Mass Spectrometry Detection. Oligonucleotides, 2003, 13, 229-243.	2.7	93
65	Design of a fraction collector for capillary array electrophoresis. Electrophoresis, 2002, 23, 35.	2.4	31
66	Ion-pair reversed-phase high-performance liquid chromatography analysis of oligonucleotides:. Journal of Chromatography A, 2002, 958, 167-182.	3.7	181
67	Analysis and Purification of Synthetic Oligonucleotides by Reversed-Phase High-Performance Liquid Chromatography with Photodiode Array and Mass Spectrometry Detection. Analytical Biochemistry, 2001, 298, 196-206.	2.4	108
68	High-throughput biopolymer desalting by solid-phase extraction prior to mass spectrometric analysis. Journal of Chromatography A, 2001, 921, 3-13.	3.7	67
69	Advances in sample preparation in electromigration, chromatographic and mass spectrometric separation methods. Journal of Chromatography A, 2001, 909, 111-135.	3.7	113
70	Polymer solutions as a pseudostationary phase for capillary electrochromatographic separation of DNA diastereomers. Electrophoresis, 2000, 21, 2999-3009.	2.4	24
71	Purification of crude DNA oligonucleotides by solid-phase extraction and reversed-phase high-performance liquid chromatography. Journal of Chromatography A, 2000, 890, 167-177.	3.7	62
72	Study of phosphorothioate-modified oligonucleotide resistance to 3′-exonuclease using capillary electrophoresis. Biomedical Applications, 1998, 714, 13-20.	1.7	34

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73	Nucleic Acids and Their Constituents. Journal of Chromatography Library, 1998, 60, 575-607.	0.1	1
74	Impact of 3′-Exonuclease Stereoselectivity on the Kinetics of Phosphorothioate Oligonucleotide Metabolism. Oligonucleotides, 1998, 8, 35-42.	4.3	36
75	Structural study of flobufen II. An unexpected role of packing effects on the dihedral angle of phenyl rings in crystal structures of 2,4-difluorobiphenyls. Journal of Fluorine Chemistry, 1997, 83, 111-116.	1.7	5
76	Development of Orthogonal 2DLC Methods for Separation of Peptides. , 0, , 261-289.		2