Barry E Boyes

List of Publications by Year
in descending order

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47	2,326	218677	214800
papers	citations	26 h-index	47 g-index

47	47	47	2363
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Differences among techniques for high-abundant protein depletion. Proteomics, 2005, 5, 3304-3313.	2.2	262
2	Size Exclusion Chromatography and Related Separation Techniques. Analytical Chemistry, 1998, 70, 251-278.	6.5	165
3	Gene expression changes by amyloid Î² peptide-stimulated human postmortem brain microglia identify activation of multiple inflammatory processes. Journal of Leukocyte Biology, 2005, 79, 596-610.	3.3	150
4	Immunohistochemical co-localization of S-100b and the glial fibrillary acidic protein in rat brain. Neuroscience, 1986, 17, 857-865.	2.3	132
5	Reversed-Phase High-Performance Liquid Chromatographic Prefractionation of Immunodepleted Human Serum Proteins to Enhance Mass Spectrometry Identification of Lower-Abundant Proteins. Journal of Proteome Research, 2005, 4, 1522-1537.	3.7	119
6	Size Exclusion Chromatography. Analytical Chemistry, 1994, 66, 595-620.	6.5	111
7	The Metabolism of [18F]6-Fluoro-l-3,4-Dihydroxyphenylalanine in the Hooded Rat. Journal of Neurochemistry, 1987, 48, 601-608.	3.9	100
8	Determination of plasma [18F]-6-fluorodopa during positron emission tomography: Elimination and metabolism in carbidopa treated subjects. Life Sciences, 1986, 39, 2243-2252.	4.3	94
9	Temperature as a variable in reversed-phase high-performance liquid chromatographic separations of peptide and protein samples. Journal of Chromatography A, 1994, 686, 45-59.	3.7	85
10	Physicochemical and optical studies on the calcium- and potassium-induced conformational changes in bovine brain S-100b protein. Biochemistry, 1982, 21, 2607-2612.	2.5	74
11	Fast high performance liquid chromatography separations for proteomic applications using Fused-Core? silica particles. Journal of Chromatography A, 2012, 1228, 232-241.	3.7	74
12	Fused-core particle technology in high-performance liquid chromatography: An overview. Journal of Pharmaceutical Analysis, 2013, 3, 303-312.	5.3	66
13	Wider Pore Superficially Porous Particles for Peptide Separations by HPLC. Journal of Chromatographic Science, 2010, 48, 566-571.	1.4	60
14	Superficially porous particles with 1000Ã... pores for large biomolecule high performance liquid chromatography and polymer size exclusion chromatography. Journal of Chromatography A, 2017, 1489, 75-85.	3.7	60
15	Liquid Chromatography-Selected Reaction Monitoring (LC-SRM) Approach for the Separation and Quantitation of Sialylated N-Glycans Linkage Isomers. Analytical Chemistry, 2014, 86, 10584-10590.	6.5	59
16	Resolving Isomeric Glycopeptide Glycoforms with Hydrophilic Interaction Chromatography (HILIC). Journal of Biomolecular Techniques, 2016, 27, 98-104.	1.5	56
17	Separation of large DNA restriction fragments on a size-exclusion column by a nonideal mechanism. Analytical Biochemistry, 1988, 170, 127-134.	2.4	53
18	Optimized superficially porous particles for protein separations. Journal of Chromatography A, 2013, 1315, 118-126.	3.7	53

#	Article	IF	Citations
19	Size Exclusion Chromatography. Analytical Chemistry, 1996, 68, 445-466.	6.5	49
20	High Recovery HPLC Separation of Lipid Rafts for Membrane Proteome Analysis. Journal of Proteome Research, 2006, 5, 1301-1312.	3.7	47
21	Superficially porous silica particles with wide pores for biomacromolecular separations. Journal of Chromatography A, 2012, 1264, 22-30.	3.7	47
22	Methylmercury-induced movement and postural disorders in developing rat: regional analysis of brain catecholamines and indoleamines. Brain Research, 1988, 439, 138-146.	2.2	36
23	The Use of Ammonium Formate as a Mobile-Phase Modifier for LC-MS/MS Analysis of Tryptic Digests. Journal of Biomolecular Techniques, 2013, 24, 187-197.	1.5	36
24	Altered metabolism of [18F]-6-fluorodopa in the hooded rat following inhibition of catechol-O-methyltransferase with U-0521. Biochemical Pharmacology, 1987, 36, 2527-2531.	4.4	35
25	Size exclusion chromatography. Analytical Chemistry, 1992, 64, 428-442.	6.5	29
26	Size exclusion chromatography. Analytical Chemistry, 1990, 62, 381-394.	6.5	27
27	Selectivity optimization of reversed-phase high-performance liquid chromatographic peptide and protein separations by varying bonded-phase functionality. Journal of Chromatography A, 1995, 691, 337-347.	3.7	26
28	Reliable LCâ€MS quantitative glycomics using iGlycoMab stable isotope labeled glycans as internal standards. Electrophoresis, 2016, 37, 1489-1497.	2.4	23
29	Are sub-2Î¼m particles best for separating small molecules? An alternative. Journal of Chromatography A, 2014, 1368, 163-172.	3.7	22
30	The Separation and Quantitation of Peptides with and without Oxidation of Methionine and Deamidation of Asparagine Using Hydrophilic Interaction Liquid Chromatography with Mass Spectrometry (HILIC-MS). Journal of the American Society for Mass Spectrometry, 2017, 28, 818-826.	2.8	19
31	An improved approach to hydrophilic interaction chromatography of peptides: Salt gradients in the presence of high isocratic acetonitrile concentrations. Journal of Chromatography A, 2013, 1277, 15-25.	3.7	16
32	Optimization of Data-Dependent Acquisition Parameters for Coupling High-Speed Separations with LC-MS/MS for Protein Identifications. Journal of Biomolecular Techniques, 2013, 24, jbt.13-2402-003.	1.5	16
33	Reversed-phase chromatography with large pore superficially porous particles for high throughput immunoglobulin G 2 disulfide isoform separation. Journal of Chromatography A, 2017, 1526, 104-111.	3.7	13
34	Predicting the Retention Behavior of Specific O-Linked Glycopeptides. Journal of Biomolecular Techniques, 2017, 28, 122-126.	1.5	12
35	Cytomegalovirus infection of the developing brain alters catecholamine and indoleamine metabolism. Brain Research, 1991, 559, 322-330.	2.2	11
36	Improved reversed-phase high performance liquid chromatography columns for biopharmaceutical analysis. Journal of Pharmaceutical and Biomedical Analysis, 1995, 14, 93-105.	2.8	11

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37	Peptide retention prediction using hydrophilic interaction liquid chromatography coupled to mass spectrometry. Journal of Chromatography A, 2018, 1537, 58-65.	3.7	11
38	Using 1.5Âmm internal diameter columns for optimal compatibility with current liquid chromatographic systems. Journal of Chromatography A, 2021, 1650, 462258.	3.7	11
39	Importance of Particle Pore Size in Determining Retention and Selectivity in Reversed Phase Liquid Chromatography. Journal of Chromatography A, 2020, 1634, 461678.	3.7	9
40	Strategies for the Identification of Novel Brain Specific Genes Affected in Alzheimer Disease. Canadian Journal of Neurological Sciences, 1989, 16, 483-489.	0.5	8
41	New wide-pore superficially porous stationary phases with low hydrophobicity applied for the analysis of monoclonal antibodies. Journal of Chromatography A, 2021, 1642, 462050.	3.7	8
42	Predicting the HILIC Retention Behavior of the N-Linked Glycopeptides Produced by Trypsin Digestion of Immunoglobulin Gs (IgGs). Journal of Biomolecular Techniques, 2018, 29, 98-104.	1.5	7
43	Rapid analysis of polycyclic aromatic hydrocarbons. Journal of Chromatography A, 2020, 1628, 461432.	3.7	7
44	Increased Uric Acid in the Developing Brain and Spinal Cord Following Cytomegalovirus Infection. Journal of Neurochemistry, 1989, 53, 1719-1723.	3.9	6
45	Identification and characterization of a large human brain gene whose expression is increased in Alzheimer disease. Molecular Brain Research, 1992, 12, 47-57.	2.3	6
46	Implementing 1.5Âmm internal diameter columns into analytical workflows. Journal of Chromatography A, 2022, 1676, 463207.	3.7	3
47	Fundamental to achieving fast separations with high efficiency: A review of chromatography with superficially porous particles. Biomedical Chromatography, 2021, 35, e5087.	1.7	2