JÃ¶rgen Samuelsson

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8051941/publications.pdf

Version: 2024-02-01

77	1,611	257101	377514
papers	citations	24 h-index	34 g-index

77	77	77	966
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Potential of adsorption isotherm measurements for closer elucidating of binding in chiral liquid chromatographic phase systems. Journal of Separation Science, 2009, 32, 1491-1506.	1.3	79
2	Evaluation of co-solvent fraction, pressure and temperature effects in analytical and preparative supercritical fluid chromatography. Journal of Chromatography A, 2014, 1374, 254-260.	1.8	62
3	Thermodynamic characterization of separations on alkaline-stable silica-based C18 columns: Why basic solutes may have better capacity and peak performance at higher pH. Journal of Chromatography A, 2007, 1163, 177-189.	1.8	59
4	A closer study of methanol adsorption and its impact on solute retentions in supercritical fluid chromatography. Journal of Chromatography A, 2016, 1442, 129-139.	1.8	49
5	A closer study of peak distortions in supercritical fluid chromatography as generated by the injection. Journal of Chromatography A, 2015, 1400, 131-139.	1.8	44
6	Impact of an error in the column hold-up time for correct adsorption isotherm determination in chromatography. Journal of Chromatography A, 2008, 1189, 19-31.	1.8	43
7	Approach for Reliable Evaluation of Drug Proteins Interactions Using Surface Plasmon Resonance Technology. Analytical Chemistry, 2009, 81, 3551-3559.	3.2	41
8	Injection profiles in liquid chromatography. I. A fundamental investigation. Journal of Chromatography A, 2010, 1217, 4306-4312.	1.8	41
9	Investigation of factors influencing the separation of diastereomers of phosphorothioated oligonucleotides. Analytical and Bioanalytical Chemistry, 2019, 411, 3383-3394.	1.9	40
10	Advanced Analysis of Biosensor Data for SARS-CoV-2 RBD and ACE2 Interactions. Analytical Chemistry, 2020, 92, 11520-11524.	3.2	34
11	Injection Technique for Generating Accurate Adsorption Isotherm Data Using the Elution by Characteristic Points Method. Analytical Chemistry, 2008, 80, 7887-7893.	3.2	32
12	Analytical and preparative separation of phosphorothioated oligonucleotides: columns and ion-pair reagents. Analytical and Bioanalytical Chemistry, 2020, 412, 299-309.	1.9	32
13	Improvement in the generation of adsorption isotherm data in the elution by characteristic points methodâ€"The ECP-slope approach. Journal of Chromatography A, 2010, 1217, 7215-7221.	1.8	31
14	Development of the Tracer-Pulse Method for Adsorption Studies of Analyte Mixtures in Liquid Chromatography Utilizing Mass Spectrometric Detection. Analytical Chemistry, 2008, 80, 2105-2112.	3.2	30
15	Determination of adsorption isotherms in supercritical fluid chromatography. Journal of Chromatography A, 2013, 1312, 124-133.	1.8	30
16	Method transfer from high-pressure liquid chromatography to ultra-high-pressure liquid chromatography. II. Temperature and pressure effects. Journal of Chromatography A, 2015, 1401, 52-59.	1.8	30
17	Chemometric evaluation of the combined effect of temperature, pressure, and co-solvent fractions on the chiral separation of basic pharmaceuticals using actual vs set operational conditions. Journal of Chromatography A, 2017, 1499, 165-173.	1.8	30
18	Reliable Strategy for Analysis of Complex Biosensor Data. Analytical Chemistry, 2018, 90, 5366-5374.	3.2	30

#	Article	IF	Citations
19	Investigation of robustness for supercritical fluid chromatography separation of peptides: Isocratic vs gradient mode. Journal of Chromatography A, 2018, 1568, 177-187.	1.8	30
20	Experimental Proof of a Chromatographic Paradox:Â Are the Injected Molecules in the Peak?. Analytical Chemistry, 2004, 76, 953-958.	3.2	29
21	Solvent strategies for loading and release in mesoporous silica. Colloids and Interface Science Communications, 2014, 3, 5-8.	2.0	28
22	Evaluation of scale-up from analytical to preparative supercritical fluid chromatography. Journal of Chromatography A, 2015, 1425, 280-286.	1.8	28
23	The importance of ion-pairing in peptide purification by reversed-phase liquid chromatography. Journal of Chromatography A, 2017, 1496, 80-91.	1.8	27
24	Impact of an error in the column hold-up time for correct adsorption isotherm determination in chromatography. Journal of Chromatography A, 2008, 1194, 205-212.	1.8	26
25	Expanding the elution by characteristic point method for determination of various types of adsorption isotherms. Journal of Chromatography A, 2011, 1218, 3737-3742.	1.8	24
26	Injection profiles in liquid chromatography II: Predicting accurate injection-profiles for computer-assisted preparative optimizations. Journal of Chromatography A, 2011, 1218, 5794-5800.	1.8	24
27	Fast estimation of adsorption isotherm parameters in gradient elution preparative liquid chromatography. I: The single component case. Journal of Chromatography A, 2013, 1299, 64-70.	1.8	23
28	Evaluation and analysis of environmentally sustainable methodologies for extraction of betulin from birch bark with a focus on industrial feasibility. Green Chemistry, 2016, 18, 516-523.	4.6	22
29	Thermodynamic characterization of the adsorption of selected chiral compounds on immobilized amyloglucosidase in liquid chromatography. Journal of Chromatography A, 2007, 1156, 3-13.	1.8	21
30	Selectivity limits of and opportunities for ion pair chromatographic separation of oligonucleotides. Journal of Chromatography A, 2021, 1651, 462269.	1.8	21
31	A quality control method enhancement conceptâ€"Continual improvement of regulatory approved QC methods. Journal of Pharmaceutical and Biomedical Analysis, 2016, 129, 273-281.	1.4	20
32	Three Different Approaches for the Clarification of the Interactions between Lipoproteins and Chondroitin-6-sulfate. Analytical Chemistry, 2011, 83, 6040-6046.	3.2	19
33	Evaluation of a combined linear-nonlinear approach for column characterization using modern alkaline-stable columns as model. Journal of Separation Science, 2013, 36, 1753-1761.	1.3	19
34	Investigation of plateau methods for adsorption isotherm determination in supercritical fluid chromatography. Journal of Chromatography A, 2014, 1354, 129-138.	1.8	19
35	Method transfer from high-pressure liquid chromatography to ultra-high-pressure liquid chromatography. I. A thermodynamic perspective. Journal of Chromatography A, 2014, 1362, 206-217.	1.8	18
36	Systematic investigations of peak deformations due to co-solvent adsorption in preparative supercritical fluid chromatography. Journal of Chromatography A, 2017, 1496, 141-149.	1.8	18

#	Article	IF	Citations
37	Calculations of the energy distribution from perturbation peak dataâ€"A new tool for characterization of chromatographic phases. Journal of Chromatography A, 2008, 1203, 177-184.	1.8	17
38	Characterization of an unusual adsorption behavior of racemic methyl-mandelate on a tris-(3,5-dimethylphenyl) carbamoyl cellulose chiral stationary phase. Journal of Chromatography A, 2011, 1218, 6688-6696.	1.8	17
39	Peak deformations in preparative supercritical fluid chromatography due to co-solvent adsorption. Journal of Chromatography A, 2016, 1468, 200-208.	1.8	17
40	Determining gradient conditions for peptide purification in RPLC with machine-learning-based retention time predictions. Journal of Chromatography A, 2019, 1598, 92-100.	1.8	17
41	Investigation of the adsorption behavior of glycine peptides on 12% cross-linked agarose gel media. Journal of Chromatography A, 2010, 1217, 1916-1925.	1.8	16
42	Deformations of overloaded bands under pH-stable conditions in reversed phase chromatography. Journal of Chromatography A, 2011, 1218, 1966-1973.	1.8	16
43	Polyethylene glycol-stabilized lipid disks as model membranes in interaction studies based on electrokinetic capillary chromatography and quartz crystal microbalance. Analytical Biochemistry, 2011, 414, 117-124.	1.1	16
44	A practical approach for predicting retention time shifts due to pressure and temperature gradients in ultra-high-pressure liquid chromatography. Journal of Chromatography A, 2017, 1479, 107-120.	1.8	16
45	Thermodynamic and kinetic approaches for evaluation of monoclonal antibody - Lipoprotein interactions. Analytical Biochemistry, 2017, 518, 25-34.	1.1	16
46	A systematic investigation of algorithm impact in preparative chromatography with experimental verifications. Journal of Chromatography A, 2011, 1218, 662-672.	1.8	15
47	Relative importance of column and adsorption parameters on the productivity in preparative liquid chromatography. I: Investigation of a chiral separation system. Journal of Chromatography A, 2013, 1299, 58-63.	1.8	15
48	Fast estimation of adsorption isotherm parameters in gradient elution preparative liquid chromatography II: The competitive case. Journal of Chromatography A, 2013, 1314, 70-76.	1.8	15
49	Impact of stationary-phase pore size on chromatographic performance using oligonucleotide separation as a model. Journal of Chromatography A, 2020, 1634, 461653.	1.8	15
50	Impact of Methanol Adsorption on the Robustness of Analytical Supercritical Fluid Chromatography in Transfer from SFC to UHPSFC. Analytical Chemistry, 2020, 92, 15429-15436.	3.2	15
51	Enhanced interpretation of adsorption data generated by liquid chromatography and by modern biosensors. Journal of Chromatography A, 2013, 1317, 22-31.	1.8	14
52	Choice of Model for Estimation of Adsorption Isotherm Parameters in Gradient Elution Preparative Liquid Chromatography. Chromatographia, 2015, 78, 1293-1297.	0.7	14
53	Systematic investigations of peak distortions due to additives in supercritical fluid chromatography. Journal of Chromatography A, 2020, 1621, 461048.	1.8	14
54	Three complementary techniques for the clarification of temperature effect on low-density lipoproteinâ€"chondroitin-6-sulfate interaction. Analytical Biochemistry, 2013, 443, 139-147.	1.1	13

#	Article	IF	Citations
55	Building machine-learning-based models for retention time and resolution predictions in ion pair chromatography of oligonucleotides. Journal of Chromatography A, 2022, 1671, 462999.	1.8	13
56	Relative importance of column and adsorption parameters on the productivity in preparative liquid chromatography II: Investigation of separation systems with competitive Langmuir adsorption isotherms. Journal of Chromatography A, 2014, 1347, 72-79.	1.8	12
57	Partial filling affinity capillary electrophoresis including adsorption energy distribution calculations â€“ towards reliable and feasible biomolecular interaction studies. Analyst, The, 2015, 140, 3175-3182.	1.7	12
58	A fundamental study of the impact of pressure on the adsorption mechanism in reversed-phase liquid chromatography. Journal of Chromatography A, 2016, 1457, 97-106.	1.8	12
59	Sample conditions to avoid pH distortion in RPâ€ŁC. Journal of Separation Science, 2013, 36, 3769-3775.	1.3	11
60	Estimation of Nonlinear Adsorption Isotherms in Gradient Elution RP-LC of Peptides in the Presence of an Adsorbing Additive. Chromatographia, 2017, 80, 961-966.	0.7	11
61	Optimization strategies accounting for the additive in preparative chiral liquid chromatography. Journal of Chromatography A, 2012, 1269, 279-286.	1.8	10
62	Partial-filling affinity capillary electrophoresis and quartz crystal microbalance with adsorption energy distribution calculations in the study of biomolecular interactions with apolipoprotein E as interaction partner. Analytical and Bioanalytical Chemistry, 2014, 406, 4137-4146.	1.9	10
63	Sample introduction for high performance separations. TrAC - Trends in Analytical Chemistry, 2016, 81, 34-41.	5.8	10
64	Invisible Analyte Peak Deformations in Single-Component Liquid Chromatography. Analytical Chemistry, 2006, 78, 2765-2771.	3.2	9
65	Enantioseparation of omeprazoleâ€”Effect of different packing particle size on productivity. Journal of Chromatography A, 2012, 1240, 123-131.	1.8	9
66	Evaluating the advantages of higher heat conductivity in a recently developed type of core-shell diamond stationary phase particle in UHPLC. Journal of Chromatography A, 2020, 1625, 461076.	1.8	9
67	Viscosity contrast effects in analytical scale chromatography - Evidence and impact. Microchemical Journal, 2017, 130, 102-107.	2.3	8
68	Combining Chemometric Models with Adsorption Isotherm Measurements to Study Omeprazole in RP-LC. Chromatographia, 2016, 79, 1283-1291.	0.7	7
69	A Retention-Matching Strategy for Method Transfer in Supercritical Fluid Chromatography: Introducing the Isomolar Plot Approach. Analytical Chemistry, 2021, 93, 6385-6393.	3.2	6
70	Experimental and theoretical investigation of high- concentration elution bands in ion-pair chromatography. Journal of Chromatography A, 2021, 1656, 462541.	1.8	6
71	Discovery of invisible extra fronts in single-component frontal analysis in liquid chromatography. Journal of Chromatography A, 2006, 1114, 53-61.	1.8	5
72	Optimizing Column Length and Particle Size in Preparative Batch Chromatography Using Enantiomeric Separations of Omeprazole and Etiracetam as Models: Feasibility of Taguchi Empirical Optimization. Chromatographia, 2018, 81, 851-860.	0.7	5

#	Article	IF	Citations
73	Predictions of overloaded concentration profiles in supercritical fluid chromatography. Journal of Chromatography A, 2021, 1639, 461926.	1.8	5
74	Method transfer in SFC from a fundamental perspective. TrAC - Trends in Analytical Chemistry, 2022, 149, 116551.	5.8	5
75	Exogenous factors contributing to column bed heterogeneity. Journal of Chromatography A, 2015, 1406, 186-191.	1.8	2
76	Modeling of preparative liquidÂchromatography. , 2017, , 573-592.		2
77	Regeneration of a silica monolithic rod column using harsh methods followed by firm thermodynamic and kinetic validation. Journal of Separation Science, 2014, 37, 906-911.	1.3	1