

# Jörgen Samuelsson

## List of Publications by Year in descending order

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77  
papers

1,611  
citations

257357

24  
h-index

377752

34  
g-index

77  
all docs

77  
docs citations

77  
times ranked

966  
citing authors

#	ARTICLE	IF	CITATIONS
1	Method transfer in SFC from a fundamental perspective. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 149, 116551.	5.8	5
2	Building machine-learning-based models for retention time and resolution predictions in ion pair chromatography of oligonucleotides. <i>Journal of Chromatography A</i> , 2022, 1671, 462999.	1.8	13
3	Predictions of overloaded concentration profiles in supercritical fluid chromatography. <i>Journal of Chromatography A</i> , 2021, 1639, 461926.	1.8	5
4	A Retention-Matching Strategy for Method Transfer in Supercritical Fluid Chromatography: Introducing the Isomolar Plot Approach. <i>Analytical Chemistry</i> , 2021, 93, 6385-6393.	3.2	6
5	Selectivity limits of and opportunities for ion pair chromatographic separation of oligonucleotides. <i>Journal of Chromatography A</i> , 2021, 1651, 462269.	1.8	21
6	Experimental and theoretical investigation of high-concentration elution bands in ion-pair chromatography. <i>Journal of Chromatography A</i> , 2021, 1656, 462541.	1.8	6
7	Analytical and preparative separation of phosphorothioated oligonucleotides: columns and ion-pair reagents. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 299-309.	1.9	32
8	Impact of stationary-phase pore size on chromatographic performance using oligonucleotide separation as a model. <i>Journal of Chromatography A</i> , 2020, 1634, 461653.	1.8	15
9	Impact of Methanol Adsorption on the Robustness of Analytical Supercritical Fluid Chromatography in Transfer from SFC to UHPSFC. <i>Analytical Chemistry</i> , 2020, 92, 15429-15436.	3.2	15
10	Advanced Analysis of Biosensor Data for SARS-CoV-2 RBD and ACE2 Interactions. <i>Analytical Chemistry</i> , 2020, 92, 11520-11524.	3.2	34
11	Systematic investigations of peak distortions due to additives in supercritical fluid chromatography. <i>Journal of Chromatography A</i> , 2020, 1621, 461048.	1.8	14
12	Evaluating the advantages of higher heat conductivity in a recently developed type of core-shell diamond stationary phase particle in UHPLC. <i>Journal of Chromatography A</i> , 2020, 1625, 461076.	1.8	9
13	Investigation of factors influencing the separation of diastereomers of phosphorothioated oligonucleotides. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 3383-3394.	1.9	40
14	Determining gradient conditions for peptide purification in RPLC with machine-learning-based retention time predictions. <i>Journal of Chromatography A</i> , 2019, 1598, 92-100.	1.8	17
15	Optimizing Column Length and Particle Size in Preparative Batch Chromatography Using Enantiomeric Separations of Omeprazole and Etiracetam as Models: Feasibility of Taguchi Empirical Optimization. <i>Chromatographia</i> , 2018, 81, 851-860.	0.7	5
16	Reliable Strategy for Analysis of Complex Biosensor Data. <i>Analytical Chemistry</i> , 2018, 90, 5366-5374.	3.2	30
17	Investigation of robustness for supercritical fluid chromatography separation of peptides: Isocratic vs gradient mode. <i>Journal of Chromatography A</i> , 2018, 1568, 177-187.	1.8	30
18	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. <i>Journal of Chromatography A</i> , 2017, 1499, 165-173.	1.8	30

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19	The importance of ion-pairing in peptide purification by reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , 2017, 1496, 80-91.	1.8	27
20	Systematic investigations of peak deformations due to co-solvent adsorption in preparative supercritical fluid chromatography. <i>Journal of Chromatography A</i> , 2017, 1496, 141-149.	1.8	18
21	A practical approach for predicting retention time shifts due to pressure and temperature gradients in ultra-high-pressure liquid chromatography. <i>Journal of Chromatography A</i> , 2017, 1479, 107-120.	1.8	16
22	Thermodynamic and kinetic approaches for evaluation of monoclonal antibody - Lipoprotein interactions. <i>Analytical Biochemistry</i> , 2017, 518, 25-34.	1.1	16
23	Modeling of preparative liquid chromatography. , 2017, , 573-592.		2
24	Estimation of Nonlinear Adsorption Isotherms in Gradient Elution RP-LC of Peptides in the Presence of an Adsorbing Additive. <i>Chromatographia</i> , 2017, 80, 961-966.	0.7	11
25	Viscosity contrast effects in analytical scale chromatography - Evidence and impact. <i>Microchemical Journal</i> , 2017, 130, 102-107.	2.3	8
26	A closer study of methanol adsorption and its impact on solute retentions in supercritical fluid chromatography. <i>Journal of Chromatography A</i> , 2016, 1442, 129-139.	1.8	49
27	Combining Chemometric Models with Adsorption Isotherm Measurements to Study Omeprazole in RP-LC. <i>Chromatographia</i> , 2016, 79, 1283-1291.	0.7	7
28	A fundamental study of the impact of pressure on the adsorption mechanism in reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , 2016, 1457, 97-106.	1.8	12
29	Peak deformations in preparative supercritical fluid chromatography due to co-solvent adsorption. <i>Journal of Chromatography A</i> , 2016, 1468, 200-208.	1.8	17
30	A quality control method enhancement concept – Continual improvement of regulatory approved QC methods. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 129, 273-281.	1.4	20
31	Sample introduction for high performance separations. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 81, 34-41.	5.8	10
32	Evaluation and analysis of environmentally sustainable methodologies for extraction of betulin from birch bark with a focus on industrial feasibility. <i>Green Chemistry</i> , 2016, 18, 516-523.	4.6	22
33	Choice of Model for Estimation of Adsorption Isotherm Parameters in Gradient Elution Preparative Liquid Chromatography. <i>Chromatographia</i> , 2015, 78, 1293-1297.	0.7	14
34	Method transfer from high-pressure liquid chromatography to ultra-high-pressure liquid chromatography. II. Temperature and pressure effects. <i>Journal of Chromatography A</i> , 2015, 1401, 52-59.	1.8	30
35	Evaluation of scale-up from analytical to preparative supercritical fluid chromatography. <i>Journal of Chromatography A</i> , 2015, 1425, 280-286.	1.8	28
36	Exogenous factors contributing to column bed heterogeneity. <i>Journal of Chromatography A</i> , 2015, 1406, 186-191.	1.8	2

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37	A closer study of peak distortions in supercritical fluid chromatography as generated by the injection. <i>Journal of Chromatography A</i> , 2015, 1400, 131-139.	1.8	44
38	Partial filling affinity capillary electrophoresis including adsorption energy distribution calculations towards reliable and feasible biomolecular interaction studies. <i>Analyst, The</i> , 2015, 140, 3175-3182.	1.7	12
39	Evaluation of co-solvent fraction, pressure and temperature effects in analytical and preparative supercritical fluid chromatography. <i>Journal of Chromatography A</i> , 2014, 1374, 254-260.	1.8	62
40	Regeneration of a silica monolithic rod column using harsh methods followed by firm thermodynamic and kinetic validation. <i>Journal of Separation Science</i> , 2014, 37, 906-911.	1.3	1
41	Solvent strategies for loading and release in mesoporous silica. <i>Colloids and Interface Science Communications</i> , 2014, 3, 5-8.	2.0	28
42	Method transfer from high-pressure liquid chromatography to ultra-high-pressure liquid chromatography. I. A thermodynamic perspective. <i>Journal of Chromatography A</i> , 2014, 1362, 206-217.	1.8	18
43	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. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 4137-4146.	1.9	10
44	Relative importance of column and adsorption parameters on the productivity in preparative liquid chromatography II: Investigation of separation systems with competitive Langmuir adsorption isotherms. <i>Journal of Chromatography A</i> , 2014, 1347, 72-79.	1.8	12
45	Investigation of plateau methods for adsorption isotherm determination in supercritical fluid chromatography. <i>Journal of Chromatography A</i> , 2014, 1354, 129-138.	1.8	19
46	Relative importance of column and adsorption parameters on the productivity in preparative liquid chromatography. I: Investigation of a chiral separation system. <i>Journal of Chromatography A</i> , 2013, 1299, 58-63.	1.8	15
47	Determination of adsorption isotherms in supercritical fluid chromatography. <i>Journal of Chromatography A</i> , 2013, 1312, 124-133.	1.8	30
48	Sample conditions to avoid pH distortion in RP-HPLC. <i>Journal of Separation Science</i> , 2013, 36, 3769-3775.	1.3	11
49	Enhanced interpretation of adsorption data generated by liquid chromatography and by modern biosensors. <i>Journal of Chromatography A</i> , 2013, 1317, 22-31.	1.8	14
50	Fast estimation of adsorption isotherm parameters in gradient elution preparative liquid chromatography II: The competitive case. <i>Journal of Chromatography A</i> , 2013, 1314, 70-76.	1.8	15
51	Fast estimation of adsorption isotherm parameters in gradient elution preparative liquid chromatography. I: The single component case. <i>Journal of Chromatography A</i> , 2013, 1299, 64-70.	1.8	23
52	Three complementary techniques for the clarification of temperature effect on low-density lipoprotein-chondroitin-6-sulfate interaction. <i>Analytical Biochemistry</i> , 2013, 443, 139-147.	1.1	13
53	Evaluation of a combined linear-nonlinear approach for column characterization using modern alkaline-stable columns as model. <i>Journal of Separation Science</i> , 2013, 36, 1753-1761.	1.3	19
54	Optimization strategies accounting for the additive in preparative chiral liquid chromatography. <i>Journal of Chromatography A</i> , 2012, 1269, 279-286.	1.8	10

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55	Enantioseparation of omeprazole—Effect of different packing particle size on productivity. <i>Journal of Chromatography A</i> , 2012, 1240, 123-131.	1.8	9
56	Three Different Approaches for the Clarification of the Interactions between Lipoproteins and Chondroitin-6-sulfate. <i>Analytical Chemistry</i> , 2011, 83, 6040-6046.	3.2	19
57	Characterization of an unusual adsorption behavior of racemic methyl-mandelate on a tris-(3,5-dimethylphenyl) carbamoyl cellulose chiral stationary phase. <i>Journal of Chromatography A</i> , 2011, 1218, 6688-6696.	1.8	17
58	Deformations of overloaded bands under pH-stable conditions in reversed phase chromatography. <i>Journal of Chromatography A</i> , 2011, 1218, 1966-1973.	1.8	16
59	A systematic investigation of algorithm impact in preparative chromatography with experimental verifications. <i>Journal of Chromatography A</i> , 2011, 1218, 662-672.	1.8	15
60	Polyethylene glycol-stabilized lipid disks as model membranes in interaction studies based on electrokinetic capillary chromatography and quartz crystal microbalance. <i>Analytical Biochemistry</i> , 2011, 414, 117-124.	1.1	16
61	Expanding the elution by characteristic point method for determination of various types of adsorption isotherms. <i>Journal of Chromatography A</i> , 2011, 1218, 3737-3742.	1.8	24
62	Injection profiles in liquid chromatography II: Predicting accurate injection-profiles for computer-assisted preparative optimizations. <i>Journal of Chromatography A</i> , 2011, 1218, 5794-5800.	1.8	24
63	Improvement in the generation of adsorption isotherm data in the elution by characteristic points method—The ECP-slope approach. <i>Journal of Chromatography A</i> , 2010, 1217, 7215-7221.	1.8	31
64	Investigation of the adsorption behavior of glycine peptides on 12% cross-linked agarose gel media. <i>Journal of Chromatography A</i> , 2010, 1217, 1916-1925.	1.8	16
65	Injection profiles in liquid chromatography. I. A fundamental investigation. <i>Journal of Chromatography A</i> , 2010, 1217, 4306-4312.	1.8	41
66	Potential of adsorption isotherm measurements for closer elucidating of binding in chiral liquid chromatographic phase systems. <i>Journal of Separation Science</i> , 2009, 32, 1491-1506.	1.3	79
67	Approach for Reliable Evaluation of Drug Proteins Interactions Using Surface Plasmon Resonance Technology. <i>Analytical Chemistry</i> , 2009, 81, 3551-3559.	3.2	41
68	Impact of an error in the column hold-up time for correct adsorption isotherm determination in chromatography. <i>Journal of Chromatography A</i> , 2008, 1189, 19-31.	1.8	43
69	Impact of an error in the column hold-up time for correct adsorption isotherm determination in chromatography. <i>Journal of Chromatography A</i> , 2008, 1194, 205-212.	1.8	26
70	Calculations of the energy distribution from perturbation peak data—A new tool for characterization of chromatographic phases. <i>Journal of Chromatography A</i> , 2008, 1203, 177-184.	1.8	17
71	Injection Technique for Generating Accurate Adsorption Isotherm Data Using the Elution by Characteristic Points Method. <i>Analytical Chemistry</i> , 2008, 80, 7887-7893.	3.2	32
72	Development of the Tracer-Pulse Method for Adsorption Studies of Analyte Mixtures in Liquid Chromatography Utilizing Mass Spectrometric Detection. <i>Analytical Chemistry</i> , 2008, 80, 2105-2112.	3.2	30

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73	Thermodynamic characterization of the adsorption of selected chiral compounds on immobilized amyloglucosidase in liquid chromatography. <i>Journal of Chromatography A</i> , 2007, 1156, 3-13.	1.8	21
74	Thermodynamic characterization of separations on alkaline-stable silica-based C18 columns: Why basic solutes may have better capacity and peak performance at higher pH. <i>Journal of Chromatography A</i> , 2007, 1163, 177-189.	1.8	59
75	Invisible Analyte Peak Deformations in Single-Component Liquid Chromatography. <i>Analytical Chemistry</i> , 2006, 78, 2765-2771.	3.2	9
76	Discovery of invisible extra fronts in single-component frontal analysis in liquid chromatography. <i>Journal of Chromatography A</i> , 2006, 1114, 53-61.	1.8	5
77	Experimental Proof of a Chromatographic Paradox: Are the Injected Molecules in the Peak?. <i>Analytical Chemistry</i> , 2004, 76, 953-958.	3.2	29