

Roman Szucs

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

1,977

citations

25

h-index

43

g-index

67

ext. papers

2,138

ext. citations

5.2

avg, IF

4.78

L-index

#	Paper	IF	Citations
66	Structure Driven Prediction of Chromatographic Retention Times: Applications to Pharmaceutical Analysis. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
65	Prediction of Analyte Retention Time in Liquid Chromatography. <i>Analytical Chemistry</i> , 2021 , 93, 228-256	7.8	29
64	Potential of microchip electrophoresis in pharmaceutical analysis: Development of a universal method for frequently prescribed nonsteroidal anti-inflammatory drugs. <i>Journal of Chromatography A</i> , 2021 , 1654, 462453	4.5	1
63	Determination of Carminic Acid in Foodstuffs and Pharmaceuticals by Microchip Electrophoresis with Photometric Detection. <i>Separations</i> , 2020 , 7, 72	3.1	5
62	Exploration of the Selectivity and Retention Behavior of Alternative Polyacrylamides in Temperature Responsive Liquid Chromatography. <i>Analytical Chemistry</i> , 2020 , 92, 9815-9822	7.8	9
61	Advantages and Pitfalls of Capillary Electrophoresis of Pharmaceutical Compounds and Their Enantiomers in Complex Samples: Comparison of Hydrodynamically Opened and Closed Systems. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	4
60	Online coupling of microchip electrophoresis with ion mobility spectrometry for direct analysis of complex liquid samples. <i>Sensors and Actuators B: Chemical</i> , 2020 , 302, 127183	8.5	5
59	Retention prediction using quantitative structure-retention relationships combined with the hydrophobic subtraction model in reversed-phase liquid chromatography. <i>Electrophoresis</i> , 2019 , 40, 2413-2419	3.6	3
58	Retention prediction in reversed phase high performance liquid chromatography using quantitative structure-retention relationships applied to the Hydrophobic Subtraction Model. <i>Journal of Chromatography A</i> , 2018 , 1541, 1-11	4.5	33
57	Screening therapeutics according to their uptake across the blood-brain barrier: A high throughput method based on immobilized artificial membrane liquid chromatography-diode-array-detection coupled to electrospray-time-of-flight mass spectrometry. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018 , 127, 72-84	5.7	10
56	Chemometric-assisted method development in hydrophilic interaction liquid chromatography: A review. <i>Analytica Chimica Acta</i> , 2018 , 1000, 20-40	6.6	57
55	Molecular modeling and prediction accuracy in Quantitative Structure-Retention Relationship calculations for chromatography. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 105, 352-359	14.6	24
54	Retention Index Prediction Using Quantitative Structure-Retention Relationships for Improving Structure Identification in Nontargeted Metabolomics. <i>Analytical Chemistry</i> , 2018 , 90, 9434-9440	7.8	19
53	Towards a chromatographic similarity index to establish localised quantitative structure-retention relationships for retention prediction. II Use of Tanimoto similarity index in ion chromatography. <i>Journal of Chromatography A</i> , 2017 , 1523, 173-182	4.5	9
52	Determination of in Vitro and in Silico Indexes for the Modeling of Blood-Brain Barrier Partitioning of Drugs via Micellar and Immobilized Artificial Membrane Liquid Chromatography. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 3739-3754	8.3	22
51	Retention prediction of low molecular weight anions in ion chromatography based on quantitative structure-retention relationships applied to the linear solvent strength model. <i>Journal of Chromatography A</i> , 2017 , 1486, 68-75	4.5	19
50	Rapid Method Development in Hydrophilic Interaction Liquid Chromatography for Pharmaceutical Analysis Using a Combination of Quantitative Structure-Retention Relationships and Design of Experiments. <i>Analytical Chemistry</i> , 2017 , 89, 1870-1878	7.8	36

49	Prediction of retention in hydrophilic interaction liquid chromatography using solute molecular descriptors based on chemical structures. <i>Journal of Chromatography A</i> , 2017 , 1486, 59-67	4.5	40
48	Error measures in quantitative structure-retention relationships studies. <i>Journal of Chromatography A</i> , 2017 , 1524, 298-302	4.5	23
47	Benchmarking of Computational Methods for Creation of Retention Models in Quantitative Structure-Retention Relationships Studies. <i>Journal of Chemical Information and Modeling</i> , 2017 , 57, 2754-2762	6.1	8
46	Liquid chromatography in the pharmaceutical industry 2017 , 515-537		1
45	Towards a chromatographic similarity index to establish localised Quantitative Structure-Retention Relationships for retention prediction. III Combination of Tanimoto similarity index, logP, and retention factor ratio to identify optimal analyte training sets for ion chromatography. <i>Journal of Chromatography A</i> 2017 , 1520, 107-116	4.5	11
44	Towards a chromatographic similarity index to establish localized quantitative structure-retention models for retention prediction: Use of retention factor ratio. <i>Journal of Chromatography A</i> , 2017 , 1486, 50-58	4.5	28
43	Use of dual-filtering to create training sets leading to improved accuracy in quantitative structure-retention relationships modelling for hydrophilic interaction liquid chromatographic systems. <i>Journal of Chromatography A</i> , 2017 , 1507, 53-62	4.5	21
42	Enhanced methodology for porting ion chromatography retention data. <i>Journal of Chromatography A</i> , 2016 , 1436, 59-63	4.5	8
41	Electrochemical oxidation coupled with liquid chromatography and mass spectrometry to study the oxidative stability of active pharmaceutical ingredients in solution: A comparison of off-line and on-line approaches. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 131, 71-79	3.5	4
40	In vitro prediction of human intestinal absorption and blood-brain barrier partitioning: development of a lipid analog for micellar liquid chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 7453-66	4.4	15
39	The application of electrochemistry to pharmaceutical stability testing--comparison with in silico prediction and chemical forced degradation approaches. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 115, 487-501	3.5	9
38	Rapid Synthesis of Pharmaceutical Oxidation Products Using Electrochemistry: A Systematic Study of N-Dealkylation Reactions of Fesoterodine Using a Commercially Available Synthesis Cell. <i>Organic Process Research and Development</i> , 2015 , 19, 1596-1603	3.9	10
37	Performance comparison of partial least squares-related variable selection methods for quantitative structure retention relationships modelling of retention times in reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , 2015 , 1424, 69-76	4.5	36
36	Evaluation of sphingomyelin, cholesterol, and phosphatidylcholine-based immobilized artificial membrane liquid chromatography to predict drug penetration across the blood-brain barrier. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 6179-88	4.4	13
35	Solid-phase extraction based on hydrophilic interaction liquid chromatography with acetone as eluent for eliminating matrix effects in the analysis of biological fluids by LC-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 401-7	4.4	24
34	Predicting drug penetration across the blood-brain barrier: comparison of micellar liquid chromatography and immobilized artificial membrane liquid chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 6029-41	4.4	27
33	A New Strategy for Fast Chiral Screening by Combining HPLC-DAD with a Multivariate Curve Resolution Alternating Least Squares Algorithm. <i>Chromatographia</i> , 2013 , 76, 1055-1066	2.1	4
32	Gradient stationary phase optimized selectivity liquid chromatography with conventional columns. <i>Analyst, The</i> , 2013 , 138, 2914-23	5	19

31	Investigation of polar organic solvents compatible with Corona Charged Aerosol Detection and their use for the determination of sugars by hydrophilic interaction liquid chromatography. <i>Analytica Chimica Acta</i> , 2012 , 750, 199-206	6.6	43
30	Comparison of the response of four aerosol detectors used with ultra high pressure liquid chromatography. <i>Journal of Chromatography A</i> , 2011 , 1218, 1646-55	4.5	49
29	A variable column length strategy to expedite method development. <i>Analytical Chemistry</i> , 2011 , 83, 966-73	7.8	10
28	Evaluation of 1.0 mm i.d. column performances on ultra high pressure liquid chromatography instrumentation. <i>Journal of Chromatography A</i> , 2010 , 1217, 4925-33	4.5	32
27	Universal response model for a corona charged aerosol detector. <i>Journal of Chromatography A</i> , 2010 , 1217, 7418-27	4.5	60
26	Evaluation of electron capture detection in reversed-phase HPLC for pharmaceutical analysis. <i>Journal of Separation Science</i> , 2009 , 32, 29-33	3.4	2
25	Comparison of CZE, open-tubular CEC and non-aqueous CE coupled to electrospray MS for impurity profiling of drugs. <i>Electrophoresis</i> , 2008 , 29, 3563-74	3.6	15
24	High efficiency liquid chromatography on conventional columns and instrumentation by using temperature as a variable. Kinetic plots and experimental verification. <i>Journal of Chromatography A</i> , 2007 , 1138, 120-31	4.5	58
23	Method to predict and compare the influence of the particle size on the isocratic peak capacity of high-performance liquid chromatography columns. <i>Journal of Chromatography A</i> , 2007 , 1147, 183-91	4.5	33
22	Improving the universal response of evaporative light scattering detection by mobile phase compensation. <i>Journal of Chromatography A</i> , 2007 , 1161, 183-91	4.5	50
21	A generic approach for the determination of residues of alkylating agents in active pharmaceutical ingredients by in situ derivatization-headspace-gas chromatography-mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007 , 45, 472-9	3.5	65
20	Evaluation of the Temperature Responsive Stationary Phase Poly(N-isopropylacrylamide) in Aqueous LC for the Analysis of Small Molecules. <i>Chromatographia</i> , 2007 , 66, 143-150	2.1	22
19	Fast capillary GC using a low thermal mass column oven for the determination of residual solvents in pharmaceuticals. <i>Journal of Separation Science</i> , 2006 , 29, 695-8	3.4	11
18	Universal response in liquid chromatography using charged aerosol detection. <i>Analytical Chemistry</i> , 2006 , 78, 3186-92	7.8	181
17	High-efficiency liquid chromatography on conventional columns and instrumentation by using temperature as a variable I. Experiments with 25 cm x 4.6 mm I.D., 5 microm ODS columns. <i>Journal of Chromatography A</i> , 2006 , 1109, 191-6	4.5	63
16	Influence of frictional heating on temperature gradients in ultra-high-pressure liquid chromatography on 2.1mm I.D. columns. <i>Journal of Chromatography A</i> , 2006 , 1113, 84-91	4.5	172
15	Evaluation of ultra performance liquid chromatography. Part I. Possibilities and limitations. <i>Journal of Chromatography A</i> , 2006 , 1127, 60-9	4.5	244
14	A generic approach to the impurity profiling of drugs using standardised and independent capillary zone electrophoresis methods coupled to electrospray ionisation mass spectrometry. <i>Electrophoresis</i> , 2005 , 26, 1712-23	3.6	23

13	Some applications of state-of-the-art capillary gas chromatography in the pharmaceutical industry. <i>TrAC - Trends in Analytical Chemistry</i> , 2002 , 21, 662-671	14.6	11
12	Generic approach to chiral separations: Chiral capillary electrophoresis with ternary cyclodextrin mixtures. <i>Journal of Separation Science</i> , 2000 , 12, 568-576		12
11	Comparative effects of sodium dodecyl sulfate and sulfobutyl ether- β -cyclodextrin as pseudostationary phases in the electrokinetic chromatographic separation of hydrophobic compounds. <i>Journal of Chromatography A</i> , 1999 , 836, 53-58	4.5	5
10	Separation of Regioisomers of Substituted Bromoindoles of Pharmaceutical Interest by RP-HPLC and Capillary Electrophoresis Based on Interaction with Sulfobutyl Ether- β -cyclodextrin. <i>Journal of High Resolution Chromatography</i> , 1999 , 22, 59-62		6
9	Micellar and microemulsion electrokinetic chromatography of hop bitter acids. <i>Journal of High Resolution Chromatography</i> , 1996 , 19, 189-192		35
8	Alcohol modifiers in MEKC with SDS as surfactant. Study on the influence of the alcohol chain length (C1-C12). <i>Journal of High Resolution Chromatography</i> , 1996 , 19, 674-678		26
7	Analysis of phospholipids in lecithins comparison between micellar electrokinetic chromatography and high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 1996 , 738, 25-29	4.5	42
6	SEPARATION AND QUANTIFICATION OF ALL MAIN HOP ACIDS IN DIFFERENT HOP CULTIVARS BY MICROEMULSION ELECTROKINETIC CHROMATOGRAPHY. <i>Journal of the Institute of Brewing</i> , 1994 , 100, 293-296	2	16
5	Sample stacking effects and large injection volumes in micellar electrokinetic chromatography of ionic compounds: Direct determination of iso- α -acids in beer. <i>Chromatographia</i> , 1993 , 36, 323-329	2.1	40
4	The history and analytical chemistry of beer bitter acids. <i>TrAC - Trends in Analytical Chemistry</i> , 1992 , 11, 275-280	14.6	28
3	Reproducibility of migration times and propagation of error in micellar electrokinetic chromatography. <i>Journal of Separation Science</i> , 1992 , 4, 399-404		3
2	Analysis of beer iso- α -acids by micellar electrokinetic chromatography and multi-wavelength UV detection. <i>Journal of High Resolution Chromatography</i> , 1991 , 14, 584-586		15
1	Micellar electrokinetic chromatography of aliphatic compounds with indirect UV detection. <i>Journal of High Resolution Chromatography</i> , 1991 , 14, 692-693		16