

Yvan Vander Heyden

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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.

63

papers

2,588

citations

28

h-index

50

g-index

64

ext. papers

2,786

ext. citations

3.9

avg, IF

5.27

L-index

#	Paper	IF	Citations
63	Chromatographic separation techniques and data handling methods for herbal fingerprints: a review. <i>Analytica Chimica Acta</i> , 2011 , 690, 148-61	6.6	222
62	Experimental designs and their recent advances in set-up, data interpretation, and analytical applications. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011 , 56, 141-58	3.5	213
61	Ruggedness and robustness testing. <i>Journal of Chromatography A</i> , 2007 , 1158, 138-57	4.5	163
60	Screening approach for chiral separation of pharmaceuticals. Part III. Supercritical fluid chromatography for analysis and purification in drug discovery. <i>Journal of Chromatography A</i> , 2005 , 1088, 67-81	4.5	161
59	Supercritical fluid chromatography for the enantioseparation of pharmaceuticals. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012 , 69, 77-92	3.5	142
58	Reappraisal of Hypothesis Testing for Method Validation: Detection of Systematic Error by Comparing the Means of Two Methods or of Two Laboratories. <i>Analytical Chemistry</i> , 1995 , 67, 4491-4499	7.8	122
57	Similarity analyses of chromatographic herbal fingerprints: a review. <i>Analytica Chimica Acta</i> , 2013 , 804, 16-28	6.6	114
56	Pretreatments of chromatographic fingerprints for quality control of herbal medicines. <i>Journal of Chromatography A</i> , 2006 , 1134, 253-9	4.5	98
55	Chiral separations in sub- and supercritical fluid chromatography. <i>Journal of Separation Science</i> , 2008 , 31, 1252-73	3.4	96
54	Development, optimization and validation of a fingerprint of Ginkgo biloba extracts by high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2005 , 1066, 97-104	4.5	85
53	Rapid screening for chiral separations by short-end injection capillary electrophoresis using highly sulfated cyclodextrins as chiral selectors. <i>Electrophoresis</i> , 2001 , 22, 3203-15	3.6	80
52	Screening approach for chiral separation of pharmaceuticals IV. Polar organic solvent chromatography. <i>Journal of Chromatography A</i> , 2006 , 1111, 48-61	4.5	72
51	Combined use of isopropylamine and trifluoroacetic acid in methanol-containing mobile phases for chiral supercritical fluid chromatography. <i>Journal of Chromatography A</i> , 2012 , 1234, 72-9	4.5	52
50	Characterization and classification of stationary phases in HPLC and SFC a review. <i>Analytica Chimica Acta</i> , 2015 , 886, 1-15	6.6	51
49	Chiral separations in normal phase liquid chromatography: enantioselectivity of recently commercialized polysaccharide-based selectors. Part I: enantioselectivity under generic screening conditions. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011 , 55, 414-23	3.5	50
48	Enantioselectivity of polysaccharide-based chiral stationary phases in supercritical fluid chromatography using methanol-containing carbon dioxide mobile phases. <i>Journal of Chromatography A</i> , 2012 , 1269, 336-45	4.5	48
47	Sequential uniform designs for fingerprints development of Ginkgo biloba extracts by capillary electrophoresis. <i>Journal of Chromatography A</i> , 2006 , 1128, 273-81	4.5	47

46	Chiral separation strategy in polar organic solvent chromatography and performance comparison with normal-phase liquid and supercritical-fluid chromatography. <i>Journal of Separation Science</i> , 2006 , 29, 1353-62	3.4	46
45	Generic chiral method development in supercritical fluid chromatography and ultra-performance supercritical fluid chromatography. <i>Journal of Chromatography A</i> , 2014 , 1363, 311-22	4.5	42
44	Set-up and evaluation of interlaboratory studies. <i>Journal of Chromatography A</i> , 2007 , 1158, 158-67	4.5	42
43	Enantioseparations of basic and bifunctional pharmaceuticals by capillary electrochromatography using polysaccharide stationary phases. <i>Electrophoresis</i> , 2003 , 24, 2567-76	3.6	40
42	Recent developments in chromatographic fingerprints from herbal products: set-up and data analysis. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2010 , 13, 900-22	1.3	36
41	Recent advances in untargeted and targeted approaches applied in herbal-extracts and essential-oils fingerprinting - A review. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020 , 177, 112849	3.5	35
40	Improved sensitivity of the nano ultra-high performance liquid chromatography-tandem mass spectrometric analysis of low-concentrated neuropeptides by reducing aspecific adsorption and optimizing the injection solvent. <i>Journal of Chromatography A</i> , 2014 , 1360, 217-28	4.5	34
39	Chiral separations in normal-phase liquid chromatography: Enantioselectivity of recently commercialized polysaccharide-based selectors. Part II. Optimization of enantioselectivity. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011 , 56, 521-37	3.5	31
38	Method development for impurity profiling in SFC: The selection of a dissimilar set of stationary phases. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 111, 333-43	3.5	28
37	Updating a generic screening approach in sub- or supercritical fluid chromatography for the enantioresolution of pharmaceuticals. <i>Journal of Supercritical Fluids</i> , 2013 , 80, 50-59	4.2	28
36	Enantiomeric impurity determination in capillary electrophoresis using a highly-sulfated cyclodextrins-based method. <i>Biomedical Chromatography</i> , 2006 , 20, 696-709	1.7	28
35	Antioxidant activities of Pistacia atlantica extracts modeled as a function of chromatographic fingerprints in order to identify antioxidant markers. <i>Microchemical Journal</i> , 2016 , 128, 208-217	4.8	27
34	Determination of optimal extraction conditions for phenolic compounds from Pistacia atlantica leaves using the response surface methodology. <i>Analytical Methods</i> , 2016 , 8, 6107-6114	3.2	26
33	Fast generic chiral separation strategies using electrophoretic and liquid chromatographic techniques. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008 , 48, 288-94	3.5	26
32	Quality control of Citri reticulatae pericarpium: exploratory analysis and discrimination. <i>Analytica Chimica Acta</i> , 2011 , 705, 111-22	6.6	24
31	Strategy for the chiral separation of non-acidic pharmaceuticals using capillary electrochromatography. <i>Electrophoresis</i> , 2005 , 26, 3930-41	3.6	24
30	Interlaboratory study of a NACE method for the determination of R-timolol content in S-timolol maleate: assessment of uncertainty. <i>Electrophoresis</i> , 2006 , 27, 2386-99	3.6	21
29	An improved microbore UHPLC method with electrochemical detection for the simultaneous determination of low monoamine levels in in vivo brain microdialysis samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 127, 136-46	3.5	18

28	Bilinear decomposition based alignment of chromatographic profiles. <i>Analytical Chemistry</i> , 2012 , 84, 5653-60	7.8	18
27	Supersaturated designs for robustness testing. <i>Analytical Chemistry</i> , 2000 , 72, 2869-74	7.8	17
26	Derivation of system suitability test limits from a robustness test on an LC assay with complex antibiotic samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2002 , 30, 1197-206	3.5	16
25	Investigation of the effect of mobile phase composition on selectivity using a solvent-triangle based approach in achiral SFC. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017 , 132, 247-257	3.5	15
24	Exploratory data analysis as a tool for similarity assessment and clustering of chiral polysaccharide-based systems used to separate pharmaceuticals in supercritical fluid chromatography. <i>Journal of Chromatography A</i> , 2014 , 1326, 110-24	4.5	14
23	The use of chemometrics to study multifunctional indole alkaloids from <i>Psychotria nemorosa</i> (Palicourea comb. nov.). Part I: Extraction and fractionation optimization based on metabolic profiling. <i>Journal of Chromatography A</i> , 2016 , 1463, 60-70	4.5	14
22	Influence of peak measurement parameters on the quality of chiral electrophoretic separations. <i>Electrophoresis</i> , 2003 , 24, 2469-80	3.6	13
21	Characterizing and optimizing magnetosome production of <i>Magnetospirillum</i> sp. XM-1 isolated from Xi'an City Moat, China. <i>FEMS Microbiology Letters</i> , 2015 , 362,	2.9	12
20	Experimental design methodologies in the optimization of chiral CE or CEC separations: an overview. <i>Methods in Molecular Biology</i> , 2013 , 970, 409-27	1.4	12
19	Precision study on capillary electrophoresis methods for metacycline. <i>Electrophoresis</i> , 2006 , 27, 2317-29	3.6	12
18	A comprehensive strategy using chromatographic profiles combined with chemometric methods: Application to quality control of <i>Polygonum cuspidatum</i> Sieb. et Zucc. <i>Journal of Chromatography A</i> , 2016 , 1466, 67-75	4.5	11
17	Development and validation of an ion-exchange chromatography method for heparin and its impurities in heparin products. <i>Journal of Separation Science</i> , 2014 , 37, 3195-204	3.4	9
16	Emerging analytical separation techniques with high-throughput potential for pharmaceutical analysis, part II: Novel chromatographic modes. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2010 , 13, 530-47	1.3	8
15	Quality Control of Herbal Medicines: From Traditional Techniques to State-of-the-art Approaches. <i>Planta Medica</i> , 2021 , 87, 964-988	3.1	7
14	Inter-instrumental method transfer of chiral capillary electrophoretic methods using robustness test information. <i>Journal of Chromatography A</i> , 2014 , 1353, 148-59	4.5	6
13	Experimental Design Methodologies for the Optimization of Chiral Separations: An Overview. <i>Methods in Molecular Biology</i> , 2019 , 1985, 453-478	1.4	5
12	Recent developments in liquid and supercritical fluid chromatographic enantioseparations. <i>Handbook of Analytical Separations</i> , 2020 , 8, 453-521	0.7	5
11	Test-set reduction in the screening step definition of a chiral separation strategy in polar organic solvents chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012 , 910, 95-102	3.2	5

10	Capillary electrochromatographic testing of monolithic silica columns synthesized according to an experimental design approach. <i>Journal of Separation Science</i> , 2011 , 34, 2305-13	3-4	4
9	Interinstrumental Transfer of a Chiral Capillary Electrophoretic Method: The Use of Robustness Test Information to Overcome Differences in Detector and Data-Handling Specifications. <i>Chromatographia</i> , 2018 , 81, 335-348	2.1	4
8	Assessing mixtures of supercharging agents to increase the abundance of a specific charge state of Neuromedin U. <i>Talanta</i> , 2019 , 198, 206-214	6.2	3
7	Rendering A Chiral Screening Step In Supercritical Fluid Chromatography Mass-Spectrometry Compatible. <i>Journal of Chromatography A</i> , 2020 , 1624, 461201	4.5	3
6	Validation of Gas Chromatographic Methods 2012 , 435-449		1
5	Chromatographic Development, Validation and Data Handling of Tea Fingerprints 2013 , 323-333		1
4	Defining a system suitability limit to decide on column deterioration and to facilitate column transfers in chiral supercritical fluid chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 6221-6230	4.4	1
3	High-Throughput Screening and Method Development Strategies to Separate Chiral Drug Compounds in HPLC, SFC, and CE 2010 , 383-416		
2	Validation of gas chromatographic methods 2021 , 547-560		
1	Liquid Chromatography for Plant Metabolite Profiling in the Field of Drug Discovery 2018 , 73-109		