

# Yvan Vander Heyden

## List of Publications by Year in descending order

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63  
papers

3,094  
citations

172207

29  
h-index

155451

55  
g-index

64  
all docs

64  
docs citations

64  
times ranked

3022  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chromatographic separation techniques and data handling methods for herbal fingerprints: A review. <i>Analytica Chimica Acta</i> , 2011, 690, 148-161.	2.6	270
2	Experimental designs and their recent advances in set-up, data interpretation, and analytical applications. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011, 56, 141-158.	1.4	265
3	Ruggedness and robustness testing. <i>Journal of Chromatography A</i> , 2007, 1158, 138-157.	1.8	187
4	Screening approach for chiral separation of pharmaceuticals. <i>Journal of Chromatography A</i> , 2005, 1088, 67-81.	1.8	174
5	Screening approach for chiral separation of pharmaceuticals. <i>Journal of Chromatography A</i> , 2006, 1111, 48-61.	1.8	158
6	Supercritical fluid chromatography for the enantioseparation of pharmaceuticals. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012, 69, 77-92.	1.4	156
7	Similarity analyses of chromatographic herbal fingerprints: A review. <i>Analytica Chimica Acta</i> , 2013, 804, 16-28.	2.6	152
8	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.	3.2	137
9	Pretreatments of chromatographic fingerprints for quality control of herbal medicines. <i>Journal of Chromatography A</i> , 2006, 1134, 253-259.	1.8	111
10	Chiral separations in sub- and supercritical fluid chromatography. <i>Journal of Separation Science</i> , 2008, 31, 1252-1273.	1.3	99
11	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.	1.8	89
12	Rapid screening for chiral separations by short-end injection capillary electrophoresis using highly sulfated cyclodextrins as chiral selectors. <i>Electrophoresis</i> , 2001, 22, 3203-3215.	1.3	88
13	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.	1.4	62
14	Characterization and classification of stationary phases in HPLC and SFC – a review. <i>Analytica Chimica Acta</i> , 2015, 886, 1-15.	2.6	57
15	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, 72-79.	1.8	55
16	Sequential uniform designs for fingerprints development of Ginkgo biloba extracts by capillary electrophoresis. <i>Journal of Chromatography A</i> , 2006, 1128, 273-281.	1.8	53
17	Set-up and evaluation of interlaboratory studies. <i>Journal of Chromatography A</i> , 2007, 1158, 158-167.	1.8	53
18	Recent Developments in Chromatographic Fingerprints from Herbal Products: Set-Up and Data Analysis. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2010, 13, 900-922.	0.6	53

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19	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, 1353-1362.	1.3	52
20	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, 414-423.	1.4	52
21	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, 336-345.	1.8	51
22	Generic chiral method development in supercritical fluid chromatography and ultra-performance supercritical fluid chromatography. <i>Journal of Chromatography A</i> , 2014, 1363, 311-322.	1.8	47
23	Enantioseparations of basic and bifunctional pharmaceuticals by capillary electrochromatography using polysaccharide stationary phases. <i>Electrophoresis</i> , 2003, 24, 2567-2576.	1.3	43
24	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, 217-228.	1.8	42
25	Determination of optimal extraction conditions for phenolic compounds from <i>Pistacia atlantica</i> leaves using the response surface methodology. <i>Analytical Methods</i> , 2016, 8, 6107-6114.	1.3	37
26	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, 521-537.	1.4	32
27	Antioxidant activities of <i>Pistacia atlantica</i> extracts modeled as a function of chromatographic fingerprints in order to identify antioxidant markers. <i>Microchemical Journal</i> , 2016, 128, 208-217.	2.3	32
28	Quality control of <i>Citri reticulatae</i> pericarpium: Exploratory analysis and discrimination. <i>Analytica Chimica Acta</i> , 2011, 705, 111-122.	2.6	31
29	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, 333-343.	1.4	30
30	Enantiomeric impurity determination in capillary electrophoresis using a highly-sulfated cyclodextrins-based method. <i>Biomedical Chromatography</i> , 2006, 20, 696-709.	0.8	29
31	Fast generic chiral separation strategies using electrophoretic and liquid chromatographic techniques. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008, 48, 288-294.	1.4	29
32	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.	1.6	29
33	Quality Control of Herbal Medicines: From Traditional Techniques to State-of-the-art Approaches. <i>Planta Medica</i> , 2021, 87, 964-988.	0.7	28
34	Strategy for the chiral separation of non-acidic pharmaceuticals using capillary electrochromatography. <i>Electrophoresis</i> , 2005, 26, 3930-3941.	1.3	25
35	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, 2386-2399.	1.3	22
36	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, 136-146.	1.4	22

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37	Bilinear Decomposition Based Alignment of Chromatographic Profiles. <i>Analytical Chemistry</i> , 2012, 84, 5653-5660.	3.2	19
38	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, 1197-1206.	1.4	18
39	Supersaturated Designs for Robustness Testing. <i>Analytical Chemistry</i> , 2000, 72, 2869-2874.	3.2	17
40	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.	1.4	17
41	The use of chemometrics to study multifunctional indole alkaloids from <i>Psychotria nemorosa</i> ( <i>Palicourea</i> comb. nov.). Part I: Extraction and fractionation optimization based on metabolic profiling. <i>Journal of Chromatography A</i> , 2016, 1463, 60-70.	1.8	16
42	Influence of peak measurement parameters on the quality of chiral electrophoretic separations. <i>Electrophoresis</i> , 2003, 24, 2469-2480.	1.3	15
43	Experimental Design Methodologies in the Optimization of Chiral CE or CEC Separations: An Overview. <i>Methods in Molecular Biology</i> , 2013, 970, 409-427.	0.4	15
44	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, 110-124.	1.8	14
45	Precision study on capillary electrophoresis methods for metacycline. <i>Electrophoresis</i> , 2006, 27, 2317-2329.	1.3	12
46	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, fmv167.	0.7	12
47	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.	1.8	12
48	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, 3195-3204.	1.3	11
49	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, 530-547.	0.6	8
50	Experimental Design Methodologies for the Optimization of Chiral Separations: An Overview. <i>Methods in Molecular Biology</i> , 2019, 1985, 453-478.	0.4	8
51	Recent developments in liquid and supercritical fluid chromatographic enantioseparations. <i>Handbook of Analytical Separations</i> , 2020, 8, 453-521.	0.8	8
52	Inter-instrumental method transfer of chiral capillary electrophoretic methods using robustness test information. <i>Journal of Chromatography A</i> , 2014, 1353, 148-159.	1.8	6
53	Assessing mixtures of supercharging agents to increase the abundance of a specific charge state of Neuromedin U. <i>Talanta</i> , 2019, 198, 206-214.	2.9	6
54	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.	1.2	5

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55	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.	0.7	5
56	Rendering A Chiral Screening Step In Supercritical Fluid Chromatography Mass-Spectrometry Compatible. <i>Journal of Chromatography A</i> , 2020, 1624, 461201.	1.8	5
57	Capillary electrochromatographic testing of monolithic silica columns synthesized according to an experimental design approach. <i>Journal of Separation Science</i> , 2011, 34, 2305-2313.	1.3	4
58	Gas Chromatographic Fingerprint Analysis for the Comparison of Seized Cannabis Samples. <i>Molecules</i> , 2021, 26, 6643.	1.7	3
59	Validation of Gas Chromatographic Methods. , 2012, , 435-449.		2
60	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.	1.9	2
61	Chromatographic Development, Validation and Data Handling of Tea Fingerprints. , 2013, , 323-333.		1
62	Liquid Chromatography for Plant Metabolite Profiling in the Field of Drug Discovery. , 2018, , 73-109.		0
63	Validation of gas chromatographic methods. , 2021, , 547-560.		0