

# Yvan Vander Heyden

## List of Publications by Year in descending order

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103  
papers

2,097  
citations

236612

25  
h-index

315357

38  
g-index

107  
all docs

107  
docs citations

107  
times ranked

2918  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analytical techniques for metabolomic studies: a review. <i>Bioanalysis</i> , 2019, 11, 2297-2318.	0.6	129
2	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
3	Enantioseparations of pharmaceuticals with capillary electrochromatography: A review. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 130, 81-99.	1.4	64
4	Chiral separations of cathinone and amphetamine-derivatives: Comparative study between capillary electrochromatography, supercritical fluid chromatography and three liquid chromatographic modes. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 121, 232-243.	1.4	64
5	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
6	Characterization and classification of stationary phases in HPLC and SFC – a review. <i>Analytica Chimica Acta</i> , 2015, 886, 1-15.	2.6	57
7	Xanthones and Cancer: from Natural Sources to Mechanisms of Action. <i>Chemistry and Biodiversity</i> , 2020, 17, e1900499.	1.0	57
8	Set-up and evaluation of interlaboratory studies. <i>Journal of Chromatography A</i> , 2007, 1158, 158-167.	1.8	53
9	Antioxidant activity of <i>Vitis vinifera</i> , <i>Punica granatum</i> , <i>Citrus aurantium</i> and <i>Opuntia ficus indica</i> fruits cultivated in Algeria. <i>Heliyon</i> , 2019, 5, e01575.	1.4	51
10	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
11	First inter-laboratory study of a Supercritical Fluid Chromatography method for the determination of pharmaceutical impurities. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 161, 414-424.	1.4	47
12	Characterization and classification of PGI Moroccan Argan oils based on their FTIR fingerprints and chemical composition. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2017, 162, 182-190.	1.8	46
13	Seasonal, gender and regional variations in total phenolic, flavonoid, and condensed tannins contents and in antioxidant properties from <i>Pistacia atlantica</i> ssp. leaves. <i>Pharmaceutical Biology</i> , 2017, 55, 1185-1194.	1.3	43
14	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
15	Selected-ion flow-tube mass-spectrometry (SIFT-MS) fingerprinting versus chemical profiling for geographic traceability of Moroccan Argan oils. <i>Food Chemistry</i> , 2018, 263, 8-17.	4.2	41
16	Pharmaceutical-enantiomers resolution using immobilized polysaccharide-based chiral stationary phases in supercritical fluid chromatography. <i>Journal of Chromatography A</i> , 2014, 1328, 85-97.	1.8	40
17	Exploration and classification of chromatographic fingerprints as additional tool for identification and quality control of several <i>Artemisia</i> species. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 95, 34-46.	1.4	39
18	Geographical classification of olive oils by the application of CART and SVM to their FTIR. <i>Journal of Chemometrics</i> , 2007, 21, 324-334.	0.7	37

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19	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
20	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
21	Four <i>Pistacia atlantica</i> subspecies ( <i>atlantica</i> , <i>cabulica</i> , <i>kurdica</i> and <i>mutica</i> ): A review of their botany, ethnobotany, phytochemistry and pharmacology. <i>Journal of Ethnopharmacology</i> , 2021, 265, 113329.	2.0	32
22	Improved variable reduction in partial least squares modelling by Global-Minimum Error Uninformative-Variable Elimination. <i>Analytica Chimica Acta</i> , 2017, 982, 37-47.	2.6	31
23	Targeted Isolation of Monoterpene Indole Alkaloids from <i>Palicourea sessilis</i> . <i>Journal of Natural Products</i> , 2017, 80, 3032-3037.	1.5	31
24	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
25	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
26	Potentially antidiabetic and antihypertensive compounds identified from <i>Pistacia atlantica</i> leaf extracts by LC fingerprinting. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 149, 547-556.	1.4	26
27	Elucidation and visualization of solid-state transformation and mixing in a pharmaceutical mini hot melt extrusion process using in-line Raman spectroscopy. <i>International Journal of Pharmaceutics</i> , 2017, 517, 119-127.	2.6	25
28	Modelling approaches for chiral chromatography on polysaccharide-based and macrocyclic antibiotic chiral selectors: A review. <i>Analytica Chimica Acta</i> , 2022, 1198, 338861.	2.6	25
29	First characterizations by capillary electrophoresis of human Chorionic Gonadotropin at the intact level. <i>Talanta</i> , 2019, 193, 77-86.	2.9	24
30	In vitro antileishmanial and cytotoxicity activities of essential oils from <i>Haplophyllum tuberculatum</i> A. Juss leaves, stems and aerial parts. <i>BMC Complementary and Alternative Medicine</i> , 2018, 18, 60.	3.7	23
31	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
32	Antiplasmodial Activity, Cytotoxicity and Structure-Activity Relationship Study of Cyclopeptide Alkaloids. <i>Molecules</i> , 2017, 22, 224.	1.7	22
33	Polyphenolic contents, antioxidant activities and UPLC-ESI-MS analysis of <i>Haplophyllum tuberculatum</i> A. Juss leaves extracts. <i>International Journal of Biological Macromolecules</i> , 2018, 106, 1071-1079.	3.6	21
34	Identification of some Bioactive Metabolites in a Fractionated Methanol Extract from <i>Ipomoea aquatica</i> (Aerial Parts) through TLC, HPLC, UPLC-ESI-QTOF-MS and LC-ESI-MS/MS Fingerprints Analyses. <i>Phytochemical Analysis</i> , 2018, 29, 5-15.		20
35	In vivo anti-inflammatory response and bioactive compounds <sup>TM</sup> profile of polyphenolic extracts from edible Argan oil ( <i>Argania spinosa</i> AL.), obtained by two extraction methods. <i>Journal of Food Biochemistry</i> , 2019, 43, e13066.	1.2	20
36	Assessing the suitability of capillary electrophoresis-mass spectrometry for biomarker discovery in plasma-based metabolomics. <i>Electrophoresis</i> , 2019, 40, 2309-2320.	1.3	20

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37	Ultrasound-assisted extraction optimization and validation of an HPLC-DAD method for the quantification of polyphenols in leaf extracts of <i>Cecropia</i> species. <i>Scientific Reports</i> , 2019, 9, 2028.	1.6	19
38	The use of chemometrics to study multifunctional indole alkaloids from <i>Psychotria nemorosa</i> ( <i>Palicourea</i> comb. nov.). Part II: Indication of peaks related to the inhibition of butyrylcholinesterase and monoamine oxidase-A. <i>Journal of Chromatography A</i> , 2016, 1463, 71-80.	1.8	18
39	Fatty Acids-Based Quality Index to Differentiate Worldwide Commercial Pistachio Cultivars. <i>Molecules</i> , 2019, 24, 58.	1.7	18
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	New insights into the Argan oil categories characterization: Chemical descriptors, FTIR fingerprints, and chemometric approaches. <i>Talanta</i> , 2021, 225, 122073.	2.9	17
42	Natural plant toxins in honey: An ignored threat to human health. <i>Journal of Hazardous Materials</i> , 2022, 424, 127682.	6.5	17
43	Support Vector Regression Based QSPR for the Prediction of Retention Time of Peptides in Reversed-Phase Liquid Chromatography. <i>Chromatographia</i> , 2015, 78, 7-19.	0.7	16
44	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
45	Comparison of a triple-quadrupole and a quadrupole time-of-flight mass analyzer to quantify 16 opioids in human plasma. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 127, 49-59.	1.4	16
46	Sensitive targeted methods for brain metabolomic studies in microdialysis samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 161, 192-205.	1.4	16
47	Bioactive Azepine-Indole Alkaloids from <i>Psychotria nemorosa</i> . <i>Journal of Natural Products</i> , 2020, 83, 852-863.	1.5	16
48	Aqueous size-exclusion chromatographic separations of intact proteins under native conditions: Effect of pressure on selectivity and efficiency. <i>Journal of Separation Science</i> , 2016, 39, 689-695.	1.3	15
49	LC-MS analysis combined with principal component analysis and soft independent modelling by class analogy for a better detection of changes in N-glycosylation profiles of therapeutic glycoproteins. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 477-485.	1.9	15
50	Method optimization for drug impurity profiling in supercritical fluid chromatography: Application to a pharmaceutical mixture. <i>Journal of Chromatography A</i> , 2017, 1526, 128-136.	1.8	15
51	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
52	Investigation of the effect of column temperature and back-pressure in achiral supercritical fluid chromatography within the context of drug impurity profiling. <i>Journal of Chromatography A</i> , 2017, 1518, 78-88.	1.8	14
53	Evaluation of boosted regression trees (BRTs) and two-step BRT procedures to model and predict blood-brain barrier passage. <i>Journal of Chemometrics</i> , 2007, 21, 280-291.	0.7	13
54	Resolution of spectrally rank-deficient multivariate curve resolution: alternating least squares components in comprehensive two-dimensional liquid chromatographic analysis. <i>Journal of Chemometrics</i> , 2012, 26, 474-486.	0.7	13

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55	Is the solvation parameter model or its adaptations adequate to account for ionic interactions when characterizing stationary phases for drug impurity profiling with supercritical fluid chromatography?. <i>Analytica Chimica Acta</i> , 2016, 924, 9-20.	2.6	13
56	Pharmacological activities of the organic extracts and fatty acid composition of the petroleum ether extract from <i>Haplophyllum tuberculatum</i> leaves. <i>Journal of Ethnopharmacology</i> , 2018, 216, 97-103.	2.0	13
57	Precision evaluation of chiral capillary electrophoretic methods in the context of inter-instrumental transfer: Constant current versus constant voltage application. <i>Journal of Chromatography A</i> , 2014, 1353, 140-147.	1.8	12
58	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
59	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
60	Three promising antimycobacterial medicinal plants reviewed as potential sources of drug hit candidates against multidrug-resistant tuberculosis. <i>Tuberculosis</i> , 2020, 124, 101987.	0.8	12
61	Feasibility study on exhaled-breath analysis by untargeted Selected-Ion Flow-Tube Mass Spectrometry in children with cystic fibrosis, asthma, and healthy controls: Comparison of data pretreatment and classification techniques. <i>Talanta</i> , 2021, 225, 122080.	2.9	12
62	Chemical Analysis and Antioxidant Activity of the Essential Oils of Three Piperaceae Species Growing in the Central Region of Cuba. <i>Natural Product Communications</i> , 2013, 8, 1934578X1300800.	0.2	10
63	Raman model development for the protein conformational state classification in different freeze-dried formulations. <i>Analytica Chimica Acta</i> , 2014, 825, 42-50.	2.6	10
64	CE-MS metabolic profiling of volume-restricted plasma samples from an acute mouse model for epileptic seizures to discover potentially involved metabolomic features. <i>Talanta</i> , 2020, 217, 121107.	2.9	10
65	Improved multi-class discrimination by Common-Subset-of-Independent-Variables Partial-Least-Squares Discriminant Analysis. <i>Talanta</i> , 2021, 234, 122595.	2.9	10
66	Chemical Composition, Antioxidant Properties and Antimicrobial Activity of the Essential Oil of <i>Murraya Paniculata</i> Leaves from the Mountains of Central Cuba. <i>Natural Product Communications</i> , 2012, 7, 1934578X1200701.	0.2	9
67	Study of the antioxidant activity of <i>Pistacia atlantica</i> Desf. Gall extracts and evaluation of the responsible compounds. <i>Biochemical Systematics and Ecology</i> , 2022, 100, 104358.	0.6	9
68	Experimental Design Methodologies for the Optimization of Chiral Separations: An Overview. <i>Methods in Molecular Biology</i> , 2019, 1985, 453-478.	0.4	8
69	Defining a standardized methodology for the determination of the antioxidant capacity: case study of <i>Pistacia atlantica</i> leaves. <i>Analyst</i> , The, 2020, 145, 557-571.	1.7	8
70	Improvement of quantitative structure-retention relationship models for chromatographic retention prediction of peptides applying individual local partial least squares models. <i>Talanta</i> , 2020, 219, 121266.	2.9	8
71	Cytotoxicity and Antiviral Activities of <i>Haplophyllum tuberculatum</i> Essential Oils, Pure Compounds, and Their Combinations against Coxsackievirus B3 and B4. <i>Planta Medica</i> , 2021, 87, 827-835.	0.7	8
72	Improved modelling for low-correlated multiple responses by common-subset-of-independent-variables partial-least-squares. <i>Talanta</i> , 2022, 239, 123140.	2.9	8

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73	Fabrication of a molecularly imprinted monolithic column via the epitope approach for the selective capillary microextraction of neuropeptides in human plasma. <i>Talanta</i> , 2022, 243, 123397.	2.9	8
74	A Study of the Effects of pH and Water Activity on the N-Nitrosopiperidine Formation in a Protein-Based Liquid System. <i>Food and Bioprocess Technology</i> , 2014, 7, 2978-2985.	2.6	7
75	Fast and Simultaneous Analysis of Combined Anti-Diabetic Drugs by Capillary Zone Electrophoresis. <i>Journal of Chromatographic Science</i> , 2015, 53, 993-999.	0.7	7
76	A new potential anti-cancer beta-carboline derivative decreases the expression levels of key proteins involved in glioma aggressiveness: A proteomic investigation. <i>Drug Development Research</i> , 2020, 81, 32-42.	1.4	7
77	Application of Rank Annihilation Factor Analysis for Antibacterial Drugs Determination by Means of pH Gradual Change-UV Spectral Data. <i>Antibiotics</i> , 2020, 9, 383.	1.5	7
78	In Vitro & In Vivo Anti-Hyperglycemic Potential of Saponins Cake and Argan Oil from <i>Argania spinosa</i> . <i>Foods</i> , 2021, 10, 1078.	1.9	7
79	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
80	Interinstrumental method transfer of a capillary electrophoretic separation of angiotensin II and five derivatives: Evaluation and update of earlier developed guidelines. <i>Electrophoresis</i> , 2015, 36, 2658-2664.	1.3	6
81	LC-method development for the quantification of neuromedin-like peptides. Emphasis on column choice and mobile phase composition. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 137, 104-112.	1.4	6
82	Kinetic study of niobium and tantalum hexameric forms and their substituted ions by capillary electrophoresis in alkaline medium. <i>Talanta</i> , 2017, 175, 127-134.	2.9	6
83	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
84	All that glitters is not gold: Panning cytotoxic natural products and derivatives with a fused tricyclic backbone by the estimation of their leadlikeness for cancer treatment. <i>European Journal of Medicinal Chemistry</i> , 2019, 166, 1-10.	2.6	6
85	A comparative study of UniSpray and electrospray sources for the ionization of neuropeptides in liquid chromatography tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2020, 1628, 461462.	1.8	6
86	Secondary-metabolites fingerprinting of <i>Argania spinosa</i> kernels using liquid chromatography-mass spectrometry and chemometrics, for metabolite identification and quantification as well as for geographic classification. <i>Journal of Chromatography A</i> , 2022, 1670, 462972.	1.8	6
87	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
88	Rendering A Chiral Screening Step In Supercritical Fluid Chromatography Mass-Spectrometry Compatible. <i>Journal of Chromatography A</i> , 2020, 1624, 461201.	1.8	5
89	Development of a capillary electrophoresis method for the separation of flavonolignans in silymarin complex. <i>Electrophoresis</i> , 2022, 43, 930-938.	1.3	5
90	Authentication of extra virgin Argan oil by selected-ion flow-tube mass-spectrometry fingerprinting and chemometrics. <i>Food Chemistry</i> , 2022, 383, 132565.	4.2	5

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91	Comparison of in-silico modelling and reversed-phase liquid chromatographic retention on an octadecyl silica column to predict skin permeability of pharmaceutical and cosmetic compounds. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 201, 114095.	1.4	4
92	In vitro antimycobacterial activity of medicinal plants <i>Lantana camara</i> , <i>Cryptolepis sanguinolenta</i> , and <i>Zanthoxylum leprieurii</i> . <i>Journal of Clinical Tuberculosis and Other Mycobacterial Diseases</i> , 2022, 27, 100307.	0.6	4
93	Chemometric modelling of the catalytic hydrogenation of bicarbonate to formate in aqueous media. <i>Reaction Kinetics and Catalysis Letters</i> , 2004, 83, 321-328.	0.6	3
94	Interinstrumental transfer of a fast shortâ€nd injection capillary electrophoresis method: Application to the separation of niobium, tantalum, and their substituted ions. <i>Electrophoresis</i> , 2017, 38, 2069-2074.	1.3	3
95	Stationary-phase optimized selectivity in supercritical fluid chromatography using a customized Phase OPTimized Liquid Chromatography kit: comparison of different prediction approaches. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 6553-6565.	1.9	3
96	Gas Chromatographic Fingerprint Analysis for the Comparison of Seized Cannabis Samples. <i>Molecules</i> , 2021, 26, 6643.	1.7	3
97	Evaluating micellar liquid chromatographic methods on octadecyl particle-based and monolithic columns to predict the skin permeation of drug and cosmetic molecules. <i>Journal of Chromatography A</i> , 2022, 1663, 462753.	1.8	3
98	Identification by LC-ESIMS of Flavonoids Responsible for the Antioxidant Properties of <i>Mallotus</i> Species from Vietnam. <i>Natural Product Communications</i> , 2011, 6, 1934578X1100600.	0.2	2
99	Pharmaceutical and Herbal Fingerprinting by Means of Chromatographic Techniques. <i>Chromatography Research International</i> , 2012, 2012, 1-2.	0.4	2
100	Multifunctional Monoamine Oxidases and Cholinesterases Inhibitory Effects, as well as UPLC-DAD-MS Chemical Profile of Alkaloid Fractions Obtained from Species of the Palicoureeae Tribe. <i>Natural Product Communications</i> , 2016, 11, 1934578X1601100.	0.2	2
101	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
102	Coupling of chiral and achiral stationary phases in supercritical fluid chromatography: Evaluating and improving retention prediction. <i>Journal of Chromatography A</i> , 2022, 1667, 462883.	1.8	2
103	Azepine-Indole Alkaloids From <i>Psychotria nemorosa</i> Modulate 5-HT <sub>2A</sub> Receptors and Prevent in vivo Protein Toxicity in Transgenic <i>Caenorhabditis elegans</i> . <i>Frontiers in Neuroscience</i> , 2022, 16, 826289.	1.4	2