Yvan Vander Heyden

List of Publications by Year in Descending Order

76 papers	1,538 citations	22 h-index	37 g-index
80 ext. papers	1,857 ext. citations	5 avg, IF	4.8 L-index

#	Paper	IF	Citations
76	Coupling of chiral and achiral stationary phases in supercritical fluid chromatography: Evaluating and improving retention prediction.. *Journal of Chromatography A*, **2022**, 1667, 462883	4.5	
75	Study of the antioxidant activity of Pistacia atlantica Desf. Gall extracts and evaluation of the responsible compounds. *Biochemical Systematics and Ecology*, **2022**, 100, 104358	1.4	4
74	Effects of growing region and maturity stages on oil yield, fatty acid profile and tocopherols of Pistacia atlantica Desf. fruit and their implications on resulting biodiesel. *Renewable Energy*, **2022**, 181, 167-181	8.1	0
73	Secondary-metabolites fingerprinting of Argania spinosa kernels using liquid chromatography-mass spectrometry and chemometrics, for metabolite identification and quantification as well as for geographic classification.. *Journal of Chromatography A*, **2022**, 1670, 462972	4.5	1
72	Fabrication of a molecularly imprinted monolithic column via the epitope approach for the selective capillary microextraction of neuropeptides in human plasma.. *Talanta*, **2022**, 243, 123397	6.2	0
71	Authentication of extra virgin Argan oil by selected-ion flow-tube mass-spectrometry fingerprinting and chemometrics.. *Food Chemistry*, **2022**, 383, 132565	8.5	1
70	Evaluating micellar liquid chromatographic methods on octadecyl particle-based and monolithic columns to predict the skin permeation of drug and cosmetic molecules.. *Journal of Chromatography A*, **2021**, 1663, 462753	4.5	0
69	Improved modelling for low-correlated multiple responses by common-subset-of-independent-variables partial-least-squares.. *Talanta*, **2021**, 239, 123140	6.2	1
68	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. *Talanta*, **2021**, 225, 122080	6.2	3
67	New insights into the Argan oil categories characterization: Chemical descriptors, FTIR fingerprints, and chemometric approaches. *Talanta*, **2021**, 225, 122073	6.2	6
66	In Vitro & In Vivo Anti-Hyperglycemic Potential of Saponins Cake and Argan Oil from. *Foods*, **2021**, 10,	4.9	2
65	Extra virgin Argan oils shelf-life monitoring and prediction based on chemical properties or FTIR fingerprints and chemometrics. *Food Control*, **2021**, 121, 107607	6.2	10
64	Four Pistacia atlantica subspecies (atlantica, cabulica, kurdica and mutica): A review of their botany, ethnobotany, phytochemistry and pharmacology. *Journal of Ethnopharmacology*, **2021**, 265, 113329	5	10
63	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. *Journal of Pharmaceutical and Biomedical Analysis*, **2021**, 201, 114095	3.5	1
62	Cytotoxic, Antioxidant, and Antidiabetic Activities versus UPLC-ESI-QTOF-MS Chemical-Profile Analysis of Ipomoea aquatica Fractions. *Planta Medica*, **2021**, 87, 1089-1100	3.1	1
61	Mass spectrometry based metabolomics of volume-restricted in-vivo brain samples: Actual status and the way forward. *TrAC - Trends in Analytical Chemistry*, **2021**, 143, 116365	14.6	0
60	Improved multi-class discrimination by Common-Subset-of-Independent-Variables Partial-Least-Squares Discriminant Analysis. *Talanta*, **2021**, 234, 122595	6.2	2

59	Rendering A Chiral Screening Step In Supercritical Fluid Chromatography Mass-Spectrometry Compatible. *Journal of Chromatography A*, **2020**, 1624, 461201	4.5	3
58	CE-MS metabolic profiling of volume-restricted plasma samples from an acute mouse model for epileptic seizures to discover potentially involved metabolomic features. *Talanta*, **2020**, 217, 121107	6.2	7
57	Experimental design-based optimization strategies for chromatographic and capillary electrophoretic separations. *Handbook of Analytical Separations*, **2020**, 197-275	0.7	0
56	Stationary-phase optimized selectivity in supercritical fluid chromatography using a customized Phase OPtimized Liquid Chromatography kit: comparison of different prediction approaches. *Analytical and Bioanalytical Chemistry*, **2020**, 412, 6553-6565	4.4	3
55	Evaluation of data preprocessings for the comparison of GC-MS chemical profiles of seized cannabis samples. *Forensic Science International*, **2020**, 310, 110228	2.6	10
54	Direct profiling of endogenous metabolites in rat brain microdialysis samples by capillary electrophoresis-mass spectrometry with on-line preconcentration. *Microchemical Journal*, **2020**, 156, 104949	4.8	10
53	Defining a standardized methodology for the determination of the antioxidant capacity: case study of Pistacia atlantica leaves. *Analyst, The*, **2020**, 145, 557-571	5	6
52	Pharmaceutical analysis combined with in-silico therapeutic and toxicological profiling on zileuton and its impurities to assist in modern drug discovery. *Journal of Pharmaceutical and Biomedical Analysis*, **2020**, 179, 112982	3.5	3
51	A comparative study of UniSpray and electrospray sources for the ionization of neuropeptides in liquid chromatography tandem mass spectrometry. *Journal of Chromatography A*, **2020**, 1628, 461462	4.5	2
50	Assessing mixtures of supercharging agents to increase the abundance of a specific charge state of Neuromedin U. *Talanta*, **2019**, 198, 206-214	6.2	3
49	Antidiabetic, dermatoprotective, antioxidant and chemical functionalities in Zizyphus lotus leaves and fruits. *Industrial Crops and Products*, **2019**, 132, 134-139	5.9	29
48	Fatty-acid profiling vs UV-Visible fingerprints for geographical classification of Moroccan Argan oils. *Food Control*, **2019**, 95, 95-105	6.2	22
47	In vivo anti-inflammatory response and bioactive compounds' profile of polyphenolic extracts from edible Argan oil (Argania spinosa L.), obtained by two extraction methods. *Journal of Food Biochemistry*, **2019**, 43, e13066	3.3	10
46	First characterizations by capillary electrophoresis of human Chorionic Gonadotropin at the intact level. *Talanta*, **2019**, 193, 77-86	6.2	17
45	Selected-ion flow-tube mass-spectrometry (SIFT-MS) fingerprinting versus chemical profiling for geographic traceability of Moroccan Argan oils. *Food Chemistry*, **2018**, 263, 8-17	8.5	29
44	Pharmacological activities of the organic extracts and fatty acid composition of the petroleum ether extract from Haplophyllum tuberculatum leaves. *Journal of Ethnopharmacology*, **2018**, 216, 97-103	3.5	3
43	In vitro antileishmanial and cytotoxicity activities of essential oils from Haplophyllum tuberculatum A. Juss leaves, stems and aerial parts. *BMC Complementary and Alternative Medicine*, **2018**, 18, 60	4.7	17
42	Flavonoids from Boldoa purpurascens inhibit proinflammatory cytokines (TNF- and IL-6) and the expression of COX-2. *Phytotherapy Research*, **2018**, 32, 1750-1754	6.7	9

41	Breakage and drying behaviour of granules in a continuous fluid bed dryer: Influence of process parameters and wet granule transfer. *European Journal of Pharmaceutical Sciences*, **2018**, 115, 223-232	5.1	33
40	Polyphenolic contents, antioxidant activities and UPLC-ESI-MS analysis of Haplophyllum tuberculatum A. Juss leaves extracts. *International Journal of Biological Macromolecules*, **2018**, 106, 1071-1079	4.8	13
39	Sensitive targeted methods for brain metabolomic studies in microdialysis samples. *Journal of Pharmaceutical and Biomedical Analysis*, **2018**, 161, 192-205	3.5	11
38	A review on the application of chromatographic methods, coupled to chemometrics, for food authentication. *Food Control*, **2018**, 93, 165-182	6.2	81
37	Fatty Acids-Based Quality Index to Differentiate Worldwide Commercial Pistachio Cultivars. *Molecules*, **2018**, 24,	4.8	10
36	Potentially antidiabetic and antihypertensive compounds identified from Pistacia atlantica leaf extracts by LC fingerprinting. *Journal of Pharmaceutical and Biomedical Analysis*, **2018**, 149, 547-556	3.5	16
35	Identification of some Bioactive Metabolites in a Fractionated Methanol Extract from Ipomoea aquatica (Aerial Parts) through TLC, HPLC, UPLC-ESI-QTOF-MS and LC-SPE-NMR Fingerprints Analyses. *Phytochemical Analysis*, **2018**, 29, 5-15	3.4	10
34	LC-method development for the quantification of neuromedin-like peptides. Emphasis on column choice and mobile phase composition. *Journal of Pharmaceutical and Biomedical Analysis*, **2017**, 137, 104-112	3.5	4
33	Characterization and classification of PGI Moroccan Argan oils based on their FTIR fingerprints and chemical composition. *Chemometrics and Intelligent Laboratory Systems*, **2017**, 162, 182-190	3.8	28
32	Seasonal, gender and regional variations in total phenolic, flavonoid, and condensed tannins contents and in antioxidant properties from Pistacia atlantica ssp. leaves. *Pharmaceutical Biology*, **2017**, 55, 1185-1194	3.8	30
31	Qualitative and quantitative analysis of peanut adulteration in almond powder samples using multi-elemental fingerprinting combined with multivariate data analysis methods. *Food Control*, **2017**, 82, 31-41	6.2	26
30	A label-free detector for liquid chromatography systems using mm-wave technology: First proof of concept. *Journal of Chromatography A*, **2017**, 1516, 79-88	4.5	2
29	Multivariate statistical process control in product quality review assessment□□A case study. *Annales Pharmaceutiques Francaises*, **2017**, 75, 446-454	1.3	6
28	Classification and authentication of Iranian walnuts according to their geographical origin based on gas chromatographic fatty acid fingerprint analysis using pattern recognition methods. *Chemometrics and Intelligent Laboratory Systems*, **2017**, 171, 251-258	3.8	29
27	Azithromycin assay in drug formulations: Validation of a HPTLC method with a quadratic polynomial calibration model using the accuracy profile approach. *Annales Pharmaceutiques Francaises*, **2017**, 75, 112-120	1.3	5
26	Determination of optimal extraction conditions for phenolic compounds from Pistacia atlantica leaves using the response surface methodology. *Analytical Methods*, **2016**, 8, 6107-6114	3.2	26
25	An improved microbore UHPLC method with electrochemical detection for the simultaneous determination of low monoamine levels in in vivo brain microdialysis samples. *Journal of Pharmaceutical and Biomedical Analysis*, **2016**, 127, 136-46	3.5	18
24	Antioxidant activities of Pistacia atlantica extracts modeled as a function of chromatographic fingerprints in order to identify antioxidant markers. *Microchemical Journal*, **2016**, 128, 208-217	4.8	27

23	The use of chemometrics to study multifunctional indole alkaloids from Psychotria nemorosa (Palicourea comb. nov.). Part II: Indication of peaks related to the inhibition of butyrylcholinesterase and monoamine oxidase-A. *Journal of Chromatography A*, **2016**, 1463, 71-80	4.5	16
22	Characterization and classification of stationary phases in HPLC and SFC – a review. *Analytica Chimica Acta*, **2015**, 886, 1-15	6.6	51
21	Discrimination and classification techniques applied on Mallotus and Phyllanthus high performance liquid chromatography fingerprints. *Analytica Chimica Acta*, **2015**, 877, 41-50	6.6	18
20	Binary classification of chalcone derivatives with LDA or KNN based on their antileishmanial activity and molecular descriptors selected using the Successive Projections Algorithm feature-selection technique. *European Journal of Pharmaceutical Sciences*, **2014**, 51, 189-95	5.1	19
19	Generic chiral method development in supercritical fluid chromatography and ultra-performance supercritical fluid chromatography. *Journal of Chromatography A*, **2014**, 1363, 311-22	4.5	42
18	Predictive-property-ranked variable reduction in partial least squares modelling with final complexity adapted models: comparison of properties for ranking. *Analytica Chimica Acta*, **2013**, 760, 34-45	6.6	18
17	Predictive-property-ranked variable reduction with final complexity adapted models in partial least squares modeling for multiple responses. *Analytical Chemistry*, **2013**, 85, 5444-53	7.8	20
16	Similarity analyses of chromatographic fingerprints as tools for identification and quality control of green tea. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2012**, 910, 61-70	3.2	52
15	Potential antioxidant compounds in Mallotus species fingerprints. Part II: fingerprint alignment, data analysis and peak identification. *Analytica Chimica Acta*, **2012**, 721, 35-43	6.6	30
14	Enantioselectivity of polysaccharide-based chiral stationary phases in supercritical fluid chromatography using methanol-containing carbon dioxide mobile phases. *Journal of Chromatography A*, **2012**, 1269, 336-45	4.5	48
13	Multivariate data analysis to evaluate the fingerprint peaks responsible for the cytotoxic activity of Mallotus species. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2012**, 910, 103-13	3.2	14
12	Pharmaceutical and Herbal Fingerprinting by Means of Chromatographic Techniques. *Chromatography Research International*, **2012**, 2012, 1-2		1
11	Classification models for neocryptolepine derivatives as inhibitors of the β-haematin formation. *Analytica Chimica Acta*, **2011**, 705, 98-110	6.6	22
10	Improved variable reduction in partial least squares modelling based on predictive-property-ranked variables and adaptation of partial least squares complexity. *Analytica Chimica Acta*, **2011**, 705, 292-305	6.6	36
9	Chromatographic separation techniques and data handling methods for herbal fingerprints: a review. *Analytica Chimica Acta*, **2011**, 690, 148-61	6.6	222
8	Influence of putrescine, cadaverine, spermidine or spermine on the formation of N-nitrosamine in heated cured pork meat. *Food Chemistry*, **2011**, 126, 1539-45	8.5	78
7	Mallotus species from Vietnamese mountainous areas: phytochemistry and pharmacological activities. *Phytochemistry Reviews*, **2010**, 9, 217-253	7.7	32
6	Potential antioxidant compounds in Mallotus species fingerprints. Part I: Indication, using linear multivariate calibration techniques. *Analytica Chimica Acta*, **2009**, 652, 189-97	6.6	31

5	Potential antioxidant compounds in Mallotus species fingerprints. Part I: indication, using linear multivariate calibration techniques. *Analytica Chimica Acta*, **2009**, 649, 24-32	6.6	20
4	Generalized FEAR method to estimate factor effects in two-level supersaturated designs. *Journal of Chemometrics*, **2007**, 21, 303-323	1.6	3
3	Direct orthogonal signal correction as data pretreatment in the classification of clinical lots of creams from near infrared spectroscopy data. *Analytica Chimica Acta*, **2007**, 582, 181-9	6.6	15
2	Pretreatments of chromatographic fingerprints for quality control of herbal medicines. *Journal of Chromatography A*, **2006**, 1134, 253-9	4.5	98
1	Exploratory chemometric analysis of the classification of pharmaceutical substances based on chromatographic data. *Journal of Chromatography A*, **2000**, 897, 23-36	4.5	51