

Yvan Vander Heyden

List of Publications by Year in descending order

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79
papers

2,130
citations

236612

25
h-index

253896

43
g-index

80
all docs

80
docs citations

80
times ranked

2739
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	A review on the application of chromatographic methods, coupled to chemometrics, for food authentication. <i>Food Control</i> , 2018, 93, 165-182.	2.8	128
3	Pretreatments of chromatographic fingerprints for quality control of herbal medicines. <i>Journal of Chromatography A</i> , 2006, 1134, 253-259.	1.8	111
4	Influence of putrescine, cadaverine, spermidine or spermine on the formation of N-nitrosamine in heated cured pork meat. <i>Food Chemistry</i> , 2011, 126, 1539-1545.	4.2	98
5	Similarity analyses of chromatographic fingerprints as tools for identification and quality control of green tea. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 910, 61-70.	1.2	63
6	Exploratory chemometric analysis of the classification of pharmaceutical substances based on chromatographic data. <i>Journal of Chromatography A</i> , 2000, 897, 23-36.	1.8	61
7	Characterization and classification of stationary phases in HPLC and SFC – a review. <i>Analytica Chimica Acta</i> , 2015, 886, 1-15.	2.6	57
8	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
9	Breakage and drying behaviour of granules in a continuous fluid bed dryer: Influence of process parameters and wet granule transfer. <i>European Journal of Pharmaceutical Sciences</i> , 2018, 115, 223-232.	1.9	49
10	Improved variable reduction in partial least squares modelling based on Predictive-Property-Ranked Variables and adaptation of partial least squares complexity. <i>Analytica Chimica Acta</i> , 2011, 705, 292-305.	2.6	48
11	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
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	Classification and authentication of Iranian walnuts according to their geographical origin based on gas chromatographic fatty acid fingerprint analysis using pattern recognition methods. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2017, 171, 251-258.	1.8	41
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	Antidiabetic, dermatoprotective, antioxidant and chemical functionalities in <i>Zizyphus lotus</i> leaves and fruits. <i>Industrial Crops and Products</i> , 2019, 132, 134-139.	2.5	40
17	Potential antioxidant compounds in <i>Mallotus</i> species fingerprints. Part I: Indication, using linear multivariate calibration techniques. <i>Analytica Chimica Acta</i> , 2009, 652, 189-197.	2.6	39
18	<i>Mallotus</i> species from Vietnamese mountainous areas: phytochemistry and pharmacological activities. <i>Phytochemistry Reviews</i> , 2010, 9, 217-253.	3.1	39

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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	Fatty-acid profiling vs UV-Visible fingerprints for geographical classification of Moroccan Argan oils. <i>Food Control</i> , 2019, 95, 95-105.	2.8	34
21	Qualitative and quantitative analysis of peanut adulteration in almond powder samples using multi-elemental fingerprinting combined with multivariate data analysis methods. <i>Food Control</i> , 2017, 82, 31-41.	2.8	33
22	Potential antioxidant compounds in <i>Mallotus</i> species fingerprints. Part II: Fingerprint alignment, data analysis and peak identification. <i>Analytica Chimica Acta</i> , 2012, 721, 35-43.	2.6	32
23	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
24	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
25	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
26	Classification models for neocryptolepine derivatives as inhibitors of the β -haematin formation. <i>Analytica Chimica Acta</i> , 2011, 705, 98-110.	2.6	25
27	Potential antioxidant compounds in <i>Mallotus</i> species fingerprints. Part I: Indication, using linear multivariate calibration techniques. <i>Analytica Chimica Acta</i> , 2009, 649, 24-32.	2.6	24
28	First characterizations by capillary electrophoresis of human Chorionic Gonadotropin at the intact level. <i>Talanta</i> , 2019, 193, 77-86.	2.9	24
29	Predictive-property-ranked variable reduction in partial least squares modelling with final complexity adapted models: Comparison of properties for ranking. <i>Analytica Chimica Acta</i> , 2013, 760, 34-45.	2.6	23
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	Predictive-Property-Ranked Variable Reduction with Final Complexity Adapted Models in Partial Least Squares Modeling for Multiple Responses. <i>Analytical Chemistry</i> , 2013, 85, 5444-5453.	3.2	22
32	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
33	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. <i>European Journal of Pharmaceutical Sciences</i> , 2014, 51, 189-195.	1.9	21
34	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
35	Discrimination and classification techniques applied on <i>Mallotus</i> and <i>Phyllanthus</i> high performance liquid chromatography fingerprints. <i>Analytica Chimica Acta</i> , 2015, 877, 41-50.	2.6	20
36	Identification of some Bioactive Metabolites in a Fractionated Methanol Extract from <i>Pomoea 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

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37	In vivo anti-inflammatory response and bioactive compounds™ profile of polyphenolic extracts from edible Argan oil (<i>Argania spinosa</i>), obtained by two extraction methods. <i>Journal of Food Biochemistry</i> , 2019, 43, e13066.	1.2	20
38	Direct profiling of endogenous metabolites in rat brain microdialysis samples by capillary electrophoresis-mass spectrometry with on-line preconcentration. <i>Microchemical Journal</i> , 2020, 156, 104949.	2.3	19
39	Multivariate data analysis to evaluate the fingerprint peaks responsible for the cytotoxic activity of <i>Mallotus</i> species. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 910, 103-113.	1.2	18
40	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
41	Fatty Acids-Based Quality Index to Differentiate Worldwide Commercial Pistachio Cultivars. <i>Molecules</i> , 2019, 24, 58.	1.7	18
42	Evaluation of data preprocessings for the comparison of GC-MS chemical profiles of seized cannabis samples. <i>Forensic Science International</i> , 2020, 310, 110228.	1.3	18
43	Extra virgin Argan oils™ shelf-life monitoring and prediction based on chemical properties or FTIR fingerprints and chemometrics. <i>Food Control</i> , 2021, 121, 107607.	2.8	18
44	Direct orthogonal signal correction as data pretreatment in the classification of clinical lots of creams from near infrared spectroscopy data. <i>Analytica Chimica Acta</i> , 2007, 582, 181-189.	2.6	17
45	New insights into the Argan oil categories characterization: Chemical descriptors, FTIR fingerprints, and chemometric approaches. <i>Talanta</i> , 2021, 225, 122073.	2.9	17
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	Flavonoids from <i>Boldoa purpurascens</i> inhibit proinflammatory cytokines (TNF and IL6) and the expression of COX2. <i>Phytotherapy Research</i> , 2018, 32, 1750-1754.	2.8	15
48	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
49	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
50	Pharmaceutical analysis combined with in-silico therapeutic and toxicological profiling on zileuton and its impurities to assist in modern drug discovery. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 179, 112982.	1.4	11
51	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
52	Improved multi-class discrimination by Common-Subset-of-Independent-Variables Partial-Least-Squares Discriminant Analysis. <i>Talanta</i> , 2021, 234, 122595.	2.9	10
53	Multivariate statistical process control in product quality review assessment—A case study. <i>Annales Pharmaceutiques Francaises</i> , 2017, 75, 446-454.	0.4	9
54	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

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55	Defining a standardized methodology for the determination of the antioxidant capacity: case study of <i>Pistacia atlantica</i> leaves. <i>Analyst</i> , 2020, 145, 557-571.	1.7	8
56	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
57	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
58	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
59	Effects of growing region and maturity stages on oil yield, fatty acid profile and tocopherols of <i>Pistacia atlantica</i> Desf. fruit and their implications on resulting biodiesel. <i>Renewable Energy</i> , 2022, 181, 167-181.	4.3	7
60	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
61	Azithromycin assay in drug formulations: Validation of a HPTLC method with a quadratic polynomial calibration model using the accuracy profile approach. <i>Annales Pharmaceutiques Francaises</i> , 2017, 75, 112-120.	0.4	6
62	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
63	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
64	Cytotoxic, Antioxidant, and Antidiabetic Activities versus UPLC-ESI-QTOF-MS Chemical-Profile Analysis of <i>Ipomoea aquatica</i> Fractions. <i>Planta Medica</i> , 2021, 87, 1089-1100.	0.7	6
65	Mass spectrometry based metabolomics of volume-restricted in-vivo brain samples: Actual status and the way forward. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 143, 116365.	5.8	6
66	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
67	Rendering A Chiral Screening Step In Supercritical Fluid Chromatography Mass-Spectrometry Compatible. <i>Journal of Chromatography A</i> , 2020, 1624, 461201.	1.8	5
68	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
69	Generalized FEAR method to estimate factor effects in two-level supersaturated designs. <i>Journal of Chemometrics</i> , 2007, 21, 303-323.	0.7	4
70	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
71	Predicting skin permeability of pharmaceutical and cosmetic compounds using retention on octadecyl, cholesterol-bonded and immobilized artificial membrane columns. <i>Journal of Chromatography A</i> , 2022, 1676, 463271.	1.8	4
72	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

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73	Gas Chromatographic Fingerprint Analysis for the Comparison of Seized Cannabis Samples. <i>Molecules</i> , 2021, 26, 6643.	1.7	3
74	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
75	Pharmaceutical and Herbal Fingerprinting by Means of Chromatographic Techniques. <i>Chromatography Research International</i> , 2012, 2012, 1-2.	0.4	2
76	A label-free detector for liquid chromatography systems using mm-wave technology: First proof of concept. <i>Journal of Chromatography A</i> , 2017, 1516, 79-88.	1.8	2
77	Experimental design-based optimization strategies for chromatographic and capillary electrophoretic separations. <i>Handbook of Analytical Separations</i> , 2020, , 197-275.	0.8	2
78	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
79	Optimization of extraction conditions for total flavonoids, chlorogenic acid and flavolignans contents from <i>Cecropia</i> sp. leaves using design-of-experiments methodology. , 2017, 4, .		0