

Yvan Vander Heyden

List of Publications by Citations

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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	Chromatographic separation techniques and data handling methods for herbal fingerprints: a review. <i>Analytica Chimica Acta</i> , 2011 , 690, 148-61	6.6	222
75	Pretreatments of chromatographic fingerprints for quality control of herbal medicines. <i>Journal of Chromatography A</i> , 2006 , 1134, 253-9	4.5	98
74	A review on the application of chromatographic methods, coupled to chemometrics, for food authentication. <i>Food Control</i> , 2018 , 93, 165-182	6.2	81
73	Influence of putrescine, cadaverine, spermidine or spermine on the formation of N-nitrosamine in heated cured pork meat. <i>Food Chemistry</i> , 2011 , 126, 1539-45	8.5	78
72	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	3.2	52
71	Characterization and classification of stationary phases in HPLC and SFC: a review. <i>Analytica Chimica Acta</i> , 2015 , 886, 1-15	6.6	51
70	Exploratory chemometric analysis of the classification of pharmaceutical substances based on chromatographic data. <i>Journal of Chromatography A</i> , 2000 , 897, 23-36	4.5	51
69	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
68	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
67	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	6.6	36
66	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	5.1	33
65	Mallotus species from Vietnamese mountainous areas: phytochemistry and pharmacological activities. <i>Phytochemistry Reviews</i> , 2010 , 9, 217-253	7.7	32
64	Potential antioxidant compounds in Mallotus species fingerprints. Part I: Indication, using linear multivariate calibration techniques. <i>Analytica Chimica Acta</i> , 2009 , 652, 189-97	6.6	31
63	Seasonal, gender and regional variations in total phenolic, flavonoid, and condensed tannins contents and in antioxidant properties from Pistacia atlantica ssp. leaves. <i>Pharmaceutical Biology</i> , 2017 , 55, 1185-1194	3.8	30
62	Potential antioxidant compounds in Mallotus species fingerprints. Part II: fingerprint alignment, data analysis and peak identification. <i>Analytica Chimica Acta</i> , 2012 , 721, 35-43	6.6	30
61	Antidiabetic, dermatoprotective, antioxidant and chemical functionalities in Zizyphus lotus leaves and fruits. <i>Industrial Crops and Products</i> , 2019 , 132, 134-139	5.9	29
60	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	8.5	29

59	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	3.8	29
58	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	3.8	28
57	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
56	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	6.2	26
55	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
54	Fatty-acid profiling vs UV-Visible fingerprints for geographical classification of Moroccan Argan oils. <i>Food Control</i> , 2019 , 95, 95-105	6.2	22
53	Classification models for neocryptolepine derivatives as inhibitors of the heme formation. <i>Analytica Chimica Acta</i> , 2011 , 705, 98-110	6.6	22
52	Predictive-property-ranked variable reduction with final complexity adapted models in partial least squares modeling for multiple responses. <i>Analytical Chemistry</i> , 2013 , 85, 5444-53	7.8	20
51	Potential antioxidant compounds in Mallotus species fingerprints. Part I: indication, using linear multivariate calibration techniques. <i>Analytica Chimica Acta</i> , 2009 , 649, 24-32	6.6	20
50	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, 189-95	5.1	19
49	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
48	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	6.6	18
47	Discrimination and classification techniques applied on Mallotus and Phyllanthus high performance liquid chromatography fingerprints. <i>Analytica Chimica Acta</i> , 2015 , 877, 41-50	6.6	18
46	In vitro antileishmanial and cytotoxicity activities of essential oils from Haplophyllum tuberculatum A. Juss leaves, stems and aerial parts. <i>BMC Complementary and Alternative Medicine</i> , 2018 , 18, 60	4.7	17
45	First characterizations by capillary electrophoresis of human Chorionic Gonadotropin at the intact level. <i>Talanta</i> , 2019 , 193, 77-86	6.2	17
44	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. <i>Journal of Chromatography A</i> , 2016 , 1463, 71-80	4.5	16
43	Potentially antidiabetic and antihypertensive compounds identified from Pistacia atlantica leaf extracts by LC fingerprinting. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 149, 547-556	3.5	16
42	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, 181-9	6.6	15

41	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, 103-13	3.2	14
40	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	7.9	13
39	Sensitive targeted methods for brain metabolomic studies in microdialysis samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 161, 192-205	3.5	11
38	Evaluation of data preprocessings for the comparison of GC-MS chemical profiles of seized cannabis samples. <i>Forensic Science International</i> , 2020 , 310, 110228	2.6	10
37	In vivo anti-inflammatory response and bioactive compounds' profile of polyphenolic extracts from edible Argan oil (<i>Argania spinosa</i> L.), obtained by two extraction methods. <i>Journal of Food Biochemistry</i> , 2019 , 43, e13066	3.3	10
36	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	4.8	10
35	Fatty Acids-Based Quality Index to Differentiate Worldwide Commercial Pistachio Cultivars. <i>Molecules</i> , 2018 , 24,	4.8	10
34	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	6.2	10
33	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	5	10
32	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-SPE-NMR Fingerprints Analyses. <i>Phytochemical Analysis</i> , 2018 , 29, 5-15	3.4	10
31	Flavonoids from <i>Boldoa purpurascens</i> inhibit proinflammatory cytokines (TNF- α and IL-6) and the expression of COX-2. <i>Phytotherapy Research</i> , 2018 , 32, 1750-1754	6.7	9
30	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	6.2	7
29	Multivariate statistical process control in product quality review assessment: A case study. <i>Annales Pharmaceutiques Francaises</i> , 2017 , 75, 446-454	1.3	6
28	Defining a standardized methodology for the determination of the antioxidant capacity: case study of <i>Pistacia atlantica</i> leaves. <i>Analyst, The</i> , 2020 , 145, 557-571	5	6
27	New insights into the Argan oil categories characterization: Chemical descriptors, FTIR fingerprints, and chemometric approaches. <i>Talanta</i> , 2021 , 225, 122073	6.2	6
26	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	1.3	5
25	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, 1043-1052	3.5	4
24	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	1.4	4

23	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
22	Rendering A Chiral Screening Step In Supercritical Fluid Chromatography Mass-Spectrometry Compatible. <i>Journal of Chromatography A</i> , 2020 , 1624, 461201	4.5	3
21	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	4.4	3
20	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 ⁵		3
19	Generalized FEAR method to estimate factor effects in two-level supersaturated designs. <i>Journal of Chemometrics</i> , 2007 , 21, 303-323	1.6	3
18	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	3.5	3
17	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	6.2	3
16	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	4.5	2
15	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	4.5	2
14	In Vitro & In Vivo Anti-Hyperglycemic Potential of Saponins Cake and Argan Oil from. <i>Foods</i> , 2021 , 10,	4.9	2
13	Improved multi-class discrimination by Common-Subset-of-Independent-Variables Partial-Least-Squares Discriminant Analysis. <i>Talanta</i> , 2021 , 234, 122595	6.2	2
12	Pharmaceutical and Herbal Fingerprinting by Means of Chromatographic Techniques. <i>Chromatography Research International</i> , 2012 , 2012, 1-2		1
11	Improved modelling for low-correlated multiple responses by common-subset-of-independent-variables partial-least-squares.. <i>Talanta</i> , 2021 , 239, 123140	6.2	1
10	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	3.5	1
9	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	3.1	1
8	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	4.5	1
7	Authentication of extra virgin Argan oil by selected-ion flow-tube mass-spectrometry fingerprinting and chemometrics.. <i>Food Chemistry</i> , 2022 , 383, 132565	8.5	1
6	Experimental design-based optimization strategies for chromatographic and capillary electrophoretic separations. <i>Handbook of Analytical Separations</i> , 2020 , 197-275	0.7	0

5	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> , 2021 , 1663, 462753	4.5	○
4	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	14.6	○
3	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	8.1	○
2	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	6.2	○
1	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	4.5	