

Hadi Parastar

List of Publications by Year in descending order

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73
papers

2,127
citations

236925

25
h-index

254184

43
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73
all docs

73
docs citations

73
times ranked

2042
citing authors

#	ARTICLE	IF	CITATIONS
1	Ensemble classification and regression techniques combined with portable near infrared spectroscopy for facile and rapid detection of water adulteration in bovine raw milk. <i>Journal of Chemometrics</i> , 2023, 37, .	1.3	3
2	Big (Bio)Chemical Data Mining Using Chemometric Methods: A Need for Chemists. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	21
3	Big (Bio)Chemical Data Mining Using Chemometric Methods: A Need for Chemists. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	1
4	Evaluation of partial least-squares regression with multivariate analytical figures of merit for determination of 10 pesticides in milk. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 1900-1910.	3.3	3
5	Sensitivity and generalized analytical sensitivity expressions for quantitative analysis using convolutional neural networks. <i>Analytica Chimica Acta</i> , 2022, 1192, 338697.	5.4	5
6	The Feasibility of Two Handheld Spectrometers for Meat Speciation Combined with Chemometric Methods and Its Application for Halal Certification. <i>Foods</i> , 2022, 11, 71.	4.3	10
7	Vis-NIR hyperspectral imaging coupled with independent component analysis for saffron authentication. <i>Food Chemistry</i> , 2022, 393, 133450.	8.2	21
8	Comparison of near-infrared (NIR) and mid-infrared (MIR) spectroscopy based on chemometrics for saffron authentication and adulteration detection. <i>Food Chemistry</i> , 2021, 344, 128647.	8.2	74
9	External parameter orthogonalization-support vector machine for processing of attenuated total reflectance-mid-infrared spectra: A solution for saffron authenticity problem. <i>Analytica Chimica Acta</i> , 2021, 1154, 338308.	5.4	12
10	Recent trends in application of chemometric methods for GC-MS and GC-MS-based metabolomic studies. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 138, 116239.	11.4	53
11	Evaluation of the effect of organic pollutants exposure on the antioxidant activity, total phenolic and total flavonoid content of lettuce (<i>Lactuca sativa</i> L.) using UV-Vis spectrophotometry and chemometrics. <i>Microchemical Journal</i> , 2021, 170, 106632.	4.5	17
12	Chemometrics-assisted isotope ratio fingerprinting based on gas chromatography/combustion/isotope ratio mass spectrometry for saffron authentication. <i>Journal of Chromatography A</i> , 2021, 1657, 462587.	3.7	9
13	Deep learning in analytical chemistry. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 145, 116459.	11.4	70
14	Pattern recognition analysis of gas chromatographic and infrared spectroscopic fingerprints of crude oil for source identification. <i>Microchemical Journal</i> , 2020, 153, 104326.	4.5	18
15	Chemometric techniques coupled with NMR for metabolic profiling of lettuce exposed to polycyclic aromatic hydrocarbons. <i>Analytical Biochemistry</i> , 2020, 611, 113945.	2.4	1
16	Independent Component Analysis in Analytical Chemistry. , 2020, , 57-83.		1
17	Combining multivariate image analysis with high-performance thin-layer chromatography for development of a reliable tool for saffron authentication and adulteration detection. <i>Journal of Chromatography A</i> , 2020, 1628, 461461.	3.7	21
18	An innovative chemometric approach for simultaneous determination of polycyclic aromatic hydrocarbons in oil-contaminated waters based on dispersive micro-solid phase extraction followed by gas chromatography. <i>Microchemical Journal</i> , 2020, 159, 105407.	4.5	4

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19	Dataset of the application of handheld NIR and machine learning for chicken fillet authenticity study. <i>Data in Brief</i> , 2020, 29, 105357.	1.0	7
20	Integration of handheld NIR and machine learning to Measure & Monitor chicken meat authenticity. <i>Food Control</i> , 2020, 112, 107149.	5.5	69
21	Analytical Figures of Merit for Multisensor Arrays. <i>ACS Sensors</i> , 2020, 5, 580-587.	7.8	16
22	Chemometric assisted determination of 16 PAHs in water samples by ultrasonic assisted emulsification microextraction followed by fast high-performance liquid chromatography with diode array detector. <i>Microchemical Journal</i> , 2019, 150, 104056.	4.5	28
23	RMet: An automated R based software for analyzing GC-MS and GC-MS untargeted metabolomic data. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2019, 194, 103866.	3.5	13
24	Development of multi-response optimization and quadratic calibration curve for determination of ten pesticides in complex sample matrices using QuEChERS dispersive liquid-liquid microextraction followed by gas chromatography. <i>Journal of Separation Science</i> , 2019, 42, 3553-3562.	2.5	13
25	Gas chromatographic fingerprint analysis of secondary metabolites of <i>Stachys lanata</i> (Stachys) Tj ETQq1 1 0.784314 rgBT /Overlock 10 methods. <i>Journal of Chromatography A</i> , 2019, 1602, 432-440.	3.7	9
26	Chemometrics comparison of gas chromatography with mass spectrometry and comprehensive two-dimensional gas chromatography with time-of-flight mass spectrometry <i>Daphnia magna</i> metabolic profiles exposed to salinity. <i>Journal of Separation Science</i> , 2018, 41, 2368-2379.	2.5	13
27	Quantitative analysis of multiple high-resolution mass spectrometry images using chemometric methods: quantitation of chlordecone in mouse liver. <i>Analyst, The</i> , 2018, 143, 2416-2425.	3.5	9
28	Metabolomics diagnostic approach to mustard airway diseases: a preliminary study. <i>Iranian Journal of Basic Medical Sciences</i> , 2018, 21, 59-69.	1.0	7
29	A systematic study on the effect of noise and shift on multivariate figures of merit of second-order calibration algorithms. <i>Analytica Chimica Acta</i> , 2017, 952, 18-31.	5.4	16
30	Joint approximate diagonalization of eigenmatrices as a high-throughput approach for analysis of hyphenated and comprehensive two-dimensional gas chromatographic data. <i>Journal of Chromatography A</i> , 2017, 1524, 188-201.	3.7	9
31	Linking the morphological and metabolomic response of <i>Lactuca sativa</i> L exposed to emerging contaminants using GC-MS and chemometric tools. <i>Scientific Reports</i> , 2017, 7, 6546.	3.3	61
32	Quality assessment of gasoline using comprehensive two-dimensional gas chromatography combined with unfolded partial least squares: A reliable approach for the detection of gasoline adulteration. <i>Journal of Separation Science</i> , 2016, 39, 367-374.	2.5	10
33	Multivariate analytical figures of merit as a metric for evaluation of quantitative measurements using comprehensive two-dimensional gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2016, 1466, 155-165.	3.7	11
34	Classification of gas chromatographic fingerprints of saffron using partial least squares discriminant analysis together with different variable selection methods. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2016, 158, 165-173.	3.5	41
35	Multi-response optimization followed by multivariate calibration for simultaneous determination of carcinogenic polycyclic aromatic hydrocarbons in environmental samples using gold nanoparticles. <i>RSC Advances</i> , 2016, 6, 104254-104264.	3.6	8
36	Fatty acids profiling of avocado seed and pulp using gas chromatography-mass spectrometry combined with multivariate chemometric techniques. <i>Journal of the Iranian Chemical Society</i> , 2016, 13, 1905-1913.	2.2	5

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37	NMR- and GC/MS-based metabolomics of sulfur mustard exposed individuals: a pilot study. <i>Biomarkers</i> , 2016, 21, 479-489.	1.9	14
38	Fuzzy C-means clustering for chromatographic fingerprints analysis: A gas chromatography–mass spectrometry case study. <i>Journal of Chromatography A</i> , 2016, 1438, 236-243.	3.7	8
39	Pattern recognition analysis of chromatographic fingerprints of <i>Crocus sativus</i> L. secondary metabolites towards source identification and quality control. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 3295-3307.	3.7	38
40	Multivariate Curve Resolution Methods for Qualitative and Quantitative Analysis in Analytical Chemistry. <i>Data Handling in Science and Technology</i> , 2015, , 293-345.	3.1	5
41	MVC app: A smartphone application for performing chemometric methods. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2015, 147, 105-110.	3.5	12
42	Second-order calibration for the determination of fatty acids in pomegranate seeds by vortex-assisted extraction-dispersive liquid–liquid micro-extraction and gas chromatography-mass spectrometry. <i>RSC Advances</i> , 2015, 5, 11633-11643.	3.6	12
43	Analysis of bioactive constituents of saffron using ultrasonic assisted emulsification microextraction combined with high-performance liquid chromatography with diode array detector: a chemometric study. <i>RSC Advances</i> , 2015, 5, 26246-26254.	3.6	15
44	Using nano-QSAR to determine the most responsible factor(s) in gold nanoparticle exocytosis. <i>RSC Advances</i> , 2015, 5, 57030-57037.	3.6	33
45	Comparative study of partial least squares and multivariate curve resolution for simultaneous spectrophotometric determination of pharmaceuticals in environmental samples. <i>RSC Advances</i> , 2015, 5, 70017-70024.	3.6	16
46	Chemometric-based determination of polycyclic aromatic hydrocarbons in aqueous samples using ultrasound-assisted emulsification microextraction combined to gas chromatography–mass spectrometry. <i>Journal of Chromatography A</i> , 2015, 1413, 117-126.	3.7	29
47	Analysis of Olive Fruit Essential Oil: Application of Gas Chromatography-Mass Spectrometry Combined with Chemometrics. <i>International Journal of Food Properties</i> , 2015, 18, 316-331.	3.0	7
48	N-way partial least squares with variable importance in projection combined to GC–GC-TOFMS as a reliable tool for toxicity identification of fresh and weathered crude oils. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 285-295.	3.7	16
49	Multivariate curve resolution based chromatographic peak alignment combined with parallel factor analysis to exploit second-order advantage in complex chromatographic measurements. <i>Analytica Chimica Acta</i> , 2014, 816, 18-27.	5.4	29
50	Overproduction of valuable methoxylated flavones in induced tetraploid plants of <i>Dracocephalum kotschyi</i> Boiss. , 2014, 55, 22.		23
51	Mutual information concept for evaluation of separation quality in hyphenated chromatographic measurements. <i>Analyst</i> , The, 2014, 139, 2574.	3.5	3
52	Combination of multivariate curve resolution and multivariate classification techniques for comprehensive high-performance liquid chromatography-diode array absorbance detection fingerprints analysis of <i>Salvia reuterana</i> extracts. <i>Journal of Chromatography A</i> , 2014, 1326, 63-72.	3.7	40
53	Multivariate Curve Resolution of Hyphenated and Multidimensional Chromatographic Measurements: A New Insight to Address Current Chromatographic Challenges. <i>Analytical Chemistry</i> , 2014, 86, 286-297.	6.5	114
54	Chemometrics-Assisted Effect-Directed Analysis of Crude and Refined Oil Using Comprehensive Two-Dimensional Gas Chromatography–Time-of-Flight Mass Spectrometry. <i>Environmental Science & Technology</i> , 2014, 48, 3074-3083.	10.0	36

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55	Second-order calibration for simultaneous determination of pharmaceuticals in water samples by solid-phase extraction and fast high-performance liquid chromatography with diode array detector. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2014, 137, 146-154.	3.5	16
56	A combined spectroscopic, molecular docking and molecular dynamic simulation study on the interaction of quercetin with β -casein nanoparticles. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2013, 127, 100-107.	3.8	82
57	Chemometrics-assisted gas chromatographic-mass spectrometric analysis of volatile components of olive leaf oil. <i>Journal of the Iranian Chemical Society</i> , 2013, 10, 169-179.	2.2	11
58	Multivariate curve resolution-particle swarm optimization: A high-throughput approach to exploit pure information from multi-component hyphenated chromatographic signals. <i>Analytica Chimica Acta</i> , 2013, 772, 16-25.	5.4	7
59	Solving chromatographic challenges in comprehensive two-dimensional gas chromatography–time-of-flight mass spectrometry using multivariate curve resolution–alternating least squares. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 6235-6249.	3.7	40
60	Analysis of the volatile chemical constituents in <i>Mindium laevigatum</i> by gas chromatography – Mass spectrometry and correlative chemometric resolution methods. <i>Microchemical Journal</i> , 2013, 106, 276-281.	4.5	13
61	Comprehensive two-dimensional gas chromatography (GC–GC) retention time shift correction and modeling using bilinear peak alignment, correlation optimized shifting and multivariate curve resolution. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2012, 117, 80-91.	3.5	49
62	Chromatographic fingerprint analysis of secondary metabolites in citrus fruits peels using gas chromatography–mass spectrometry combined with advanced chemometric methods. <i>Journal of Chromatography A</i> , 2012, 1251, 176-187.	3.7	46
63	Synthesis, X-ray structure and oxidation catalysis of a oxido–peroxido molybdenum(VI) complex with a tridentate Schiff base ligand. <i>Inorganic Chemistry Communication</i> , 2012, 20, 86-89.	3.9	109
64	Is independent component analysis appropriate for multivariate resolution in analytical chemistry?. <i>TrAC - Trends in Analytical Chemistry</i> , 2012, 31, 134-143.	11.4	68
65	Resolution and Quantification of Complex Mixtures of Polycyclic Aromatic Hydrocarbons in Heavy Fuel Oil Sample by Means of GC – GC-TOFMS Combined to Multivariate Curve Resolution. <i>Analytical Chemistry</i> , 2011, 83, 9289-9297.	6.5	113
66	Recent trends in application of multivariate curve resolution approaches for improving gas chromatography–mass spectrometry analysis of essential oils. <i>Talanta</i> , 2011, 85, 835-849.	5.5	64
67	Self-modeling curve resolution techniques applied to comparative analysis of volatile components of Iranian saffron from different regions. <i>Analytica Chimica Acta</i> , 2010, 662, 143-154.	5.4	47
68	Assessment of the co-elution problem in gas chromatography-mass spectrometry using non-linear optimization techniques. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2010, 101, 1-13.	3.5	23
69	MCRC software: A tool for chemometric analysis of two-way chromatographic data. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2010, 104, 155-171.	3.5	54
70	Towards obtaining more information from gas chromatography–mass spectrometric data of essential oils: An overview of mean field independent component analysis. <i>Journal of Chromatography A</i> , 2010, 1217, 4850-4861.	3.7	25
71	Optimization of dispersive liquid–liquid microextraction and improvement of detection limit of methyl tert-butyl ether in water with the aid of chemometrics. <i>Journal of Chromatography A</i> , 2010, 1217, 7017-7023.	3.7	22
72	Characterization of volatile components of Iranian saffron using factorial-based response surface modeling of ultrasonic extraction combined with gas chromatography–mass spectrometry analysis. <i>Journal of Chromatography A</i> , 2009, 1216, 6088-6097.	3.7	128

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73	Development of a method for analysis of Iranian damask rose oil: Combination of gas chromatography–mass spectrometry with Chemometric techniques. <i>Analytica Chimica Acta</i> , 2008, 623, 11-21.	5.4	71