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 g-index
73 all docs	73 docs citations	73 times ranked	2042 citing authors

#	Article	IF	Citations
1	Characterization of volatile components of Iranian saffron using factorial-based response surface modeling of ultrasonic extraction combined with gas chromatographyâ€“mass spectrometry analysis. Journal of Chromatography A, 2009, 1216, 6088-6097.	3.7	128
2	Multivariate Curve Resolution of Hyphenated and Multidimensional Chromatographic Measurements: A New Insight to Address Current Chromatographic Challenges. Analytical Chemistry, 2014, 86, 286-297.	6.5	114
3	Resolution and Quantification of Complex Mixtures of Polycyclic Aromatic Hydrocarbons in Heavy Fuel Oil Sample by Means of GC Ã— GC-TOFMS Combined to Multivariate Curve Resolution. Analytical Chemistry, 2011, 83, 9289-9297.	6.5	113
4	Synthesis, X-ray structure and oxidation catalysis of a oxidoâ€“peroxido molybdenum(VI) complex with a tridentate Schiff base ligand. Inorganic Chemistry Communication, 2012, 20, 86-89.	3.9	109
5	A combined spectroscopic, molecular docking and molecular dynamic simulation study on the interaction of quercetin with Î²-casein nanoparticles. Journal of Photochemistry and Photobiology B: Biology, 2013, 127, 100-107.	3.8	82
6	Comparison of near-infrared (NIR) and mid-infrared (MIR) spectroscopy based on chemometrics for saffron authentication and adulteration detection. Food Chemistry, 2021, 344, 128647.	8.2	74
7	Development of a method for analysis of Iranian damask rose oil: Combination of gas chromatographyâ€“mass spectrometry with Chemometric techniques. Analytica Chimica Acta, 2008, 623, 11-21.	5.4	71
8	Deep learning in analytical chemistry. TrAC - Trends in Analytical Chemistry, 2021, 145, 116459.	11.4	70
9	Integration of handheld NIR and machine learning to â€œMeasure & Monitorâ€•chicken meat authenticity. Food Control, 2020, 112, 107149.	5.5	69
10	Is independent component analysis appropriate for multivariate resolution in analytical chemistry?. TrAC - Trends in Analytical Chemistry, 2012, 31, 134-143.	11.4	68
11	Recent trends in application of multivariate curve resolution approaches for improving gas chromatographyâ€“mass spectrometry analysis of essential oils. Talanta, 2011, 85, 835-849.	5.5	64
12	Linking the morphological and metabolomic response of Lactuca sativa L exposed to emerging contaminants using GCâ€‰Ã—â€‰GC-MS and chemometric tools. Scientific Reports, 2017, 7, 6546.	3.3	61
13	MCRC software: A tool for chemometric analysis of two-way chromatographic data. Chemometrics and Intelligent Laboratory Systems, 2010, 104, 155-171.	3.5	54
14	Recent trends in application of chemometric methods for GC-MS and GCÃ—GC-MS-based metabolomic studies. TrAC - Trends in Analytical Chemistry, 2021, 138, 116239.	11.4	53
15	Comprehensive two-dimensional gas chromatography (GCÃ—GC) retention time shift correction and modeling using bilinear peak alignment, correlation optimized shifting and multivariate curve resolution. Chemometrics and Intelligent Laboratory Systems, 2012, 117, 80-91.	3.5	49
16	Self-modeling curve resolution techniques applied to comparative analysis of volatile components of Iranian saffron from different regions. Analytica Chimica Acta, 2010, 662, 143-154.	5.4	47
17	Chromatographic fingerprint analysis of secondary metabolites in citrus fruits peels using gas chromatographyâ€“mass spectrometry combined with advanced chemometric methods. Journal of Chromatography A, 2012, 1251, 176-187.	3.7	46
18	Classification of gas chromatographic fingerprints of saffron using partial least squares discriminant analysis together with different variable selection methods. Chemometrics and Intelligent Laboratory Systems, 2016, 158, 165-173.	3.5	41

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19	Solving chromatographic challenges in comprehensive two-dimensional gas chromatographyâ€“time-of-flight mass spectrometry using multivariate curve resolutionâ€“alternating least squares. Analytical and Bioanalytical Chemistry, 2013, 405, 6235-6249.	3.7	40
20	Combination of multivariate curve resolution and multivariate classification techniques for comprehensive high-performance liquid chromatography-diode array absorbance detection fingerprints analysis of Salvia reuterana extracts. Journal of Chromatography A, 2014, 1326, 63-72.	3.7	40
21	Pattern recognition analysis of chromatographic fingerprints of Crocus sativus L. secondary metabolites towards source identification and quality control. Analytical and Bioanalytical Chemistry, 2016, 408, 3295-3307.	3.7	38
22	Chemometrics-Assisted Effect-Directed Analysis of Crude and Refined Oil Using Comprehensive Two-Dimensional Gas Chromatographyâ€“Time-of-Flight Mass Spectrometry. Environmental Science & Technology, 2014, 48, 3074-3083.	10.0	36
23	Using nano-QSAR to determine the most responsible factor(s) in gold nanoparticle exocytosis. RSC Advances, 2015, 5, 57030-57037.	3.6	33
24	Multivariate curve resolution based chromatographic peak alignment combined with parallel factor analysis to exploit second-order advantage in complex chromatographic measurements. Analytica Chimica Acta, 2014, 816, 18-27.	5.4	29
25	Chemometric-based determination of polycyclic aromatic hydrocarbons in aqueous samples using ultrasound-assisted emulsification microextraction combined to gas chromatographyâ€“mass spectrometry. Journal of Chromatography A, 2015, 1413, 117-126.	3.7	29
26	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. Microchemical Journal, 2019, 150, 104056.	4.5	28
27	Towards obtaining more information from gas chromatographyâ€“mass spectrometric data of essential oils: An overview of mean field independent component analysis. Journal of Chromatography A, 2010, 1217, 4850-4861.	3.7	25
28	Assessment of the co-elution problem in gas chromatography-mass spectrometry using non-linear optimization techniques. Chemometrics and Intelligent Laboratory Systems, 2010, 101, 1-13.	3.5	23
29	Overproduction of valuable methoxylated flavones in induced tetraploid plants of Dracocephalum kotschyi Boiss. , 2014, 55, 22.		23
30	Optimization of dispersive liquidâ€“liquid microextraction and improvement of detection limit of methyl tert-butyl ether in water with the aid of chemometrics. Journal of Chromatography A, 2010, 1217, 7017-7023.	3.7	22
31	Big (Bio)Chemical Data Mining Using Chemometric Methods: A Need for Chemists. Angewandte Chemie - International Edition, 2022, 61, .	13.8	21
32	Combining multivariate image analysis with high-performance thin-layer chromatography for development of a reliable tool for saffron authentication and adulteration detection. Journal of Chromatography A, 2020, 1628, 461461.	3.7	21
33	Vis-NIR hyperspectral imaging coupled with independent component analysis for saffron authentication. Food Chemistry, 2022, 393, 133450.	8.2	21
34	Pattern recognition analysis of gas chromatographic and infrared spectroscopic fingerprints of crude oil for source identification. Microchemical Journal, 2020, 153, 104326.	4.5	18
35	Evaluation of the effect of organic pollutants exposure on the antioxidant activity, total phenolic and total flavonoid content of lettuce (Lactuca sativa L.) using UVâ€“Vis spectrophotometry and chemometrics. Microchemical Journal, 2021, 170, 106632.	4.5	17
36	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. Chemometrics and Intelligent Laboratory Systems, 2014, 137, 146-154.	3.5	16

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37	Comparative study of partial least squares and multivariate curve resolution for simultaneous spectrophotometric determination of pharmaceuticals in environmental samples. RSC Advances, 2015, 5, 70017-70024.	3.6	16
38	N-way partial least squares with variable importance in projection combined to GCâ€‰Ã—â€‰GC-TOFMS as a reliable tool for toxicity identification of fresh and weathered crude oils. Analytical and Bioanalytical Chemistry, 2015, 407, 285-295.	3.7	16
39	A systematic study on the effect of noise and shift on multivariate figures of merit of second-order calibration algorithms. Analytica Chimica Acta, 2017, 952, 18-31.	5.4	16
40	Analytical Figures of Merit for Multisensor Arrays. ACS Sensors, 2020, 5, 580-587.	7.8	16
41	Analysis of bioactive constituents of saffron using ultrasonic assisted emulsification microextraction combined with high-performance liquid chromatography with diode array detector: a chemometric study. RSC Advances, 2015, 5, 26246-26254.	3.6	15
42	NMR- and GC/MS-based metabolomics of sulfur mustard exposed individuals: a pilot study. Biomarkers, 2016, 21, 479-489.	1.9	14
43	Analysis of the volatile chemical constituents in Mindium laevigatum by gas chromatography â€” Mass spectrometry and correlative chemometric resolution methods. Microchemical Journal, 2013, 106, 276-281.	4.5	13
44	Chemometrics comparison of gas chromatography with mass spectrometry and comprehensive twoâ€dimensional gas chromatography with timeâ€ofâ€flight mass spectrometry Daphnia magna metabolic profiles exposed to salinity. Journal of Separation Science, 2018, 41, 2368-2379.	2.5	13
45	RMet: An automated R based software for analyzing GC-MS and GCÃ—GC-MS untargeted metabolomic data. Chemometrics and Intelligent Laboratory Systems, 2019, 194, 103866.	3.5	13
46	Development of multiâ€response optimization and quadratic calibration curve for determination of ten pesticides in complex sample matrices using QuEChERS dispersive liquidâ€“liquid microextraction followed by gas chromatography. Journal of Separation Science, 2019, 42, 3553-3562.	2.5	13
47	MVC app: A smartphone application for performing chemometric methods. Chemometrics and Intelligent Laboratory Systems, 2015, 147, 105-110.	3.5	12
48	Second-order calibration for the determination of fatty acids in pomegranate seeds by vortex-assisted extraction-dispersive liquidâ€“liquid micro-extraction and gas chromatography-mass spectrometry. RSC Advances, 2015, 5, 11633-11643.	3.6	12
49	External parameter orthogonalization-support vector machine for processing of attenuated total reflectance-mid-infrared spectra: A solution for saffron authenticity problem. Analytica Chimica Acta, 2021, 1154, 338308.	5.4	12
50	Chemometrics-assisted gas chromatographic-mass spectrometric analysis of volatile components of olive leaf oil. Journal of the Iranian Chemical Society, 2013, 10, 169-179.	2.2	11
51	Multivariate analytical figures of merit as a metric for evaluation of quantitative measurements using comprehensive two-dimensional gas chromatographyâ€“mass spectrometry. Journal of Chromatography A, 2016, 1466, 155-165.	3.7	11
52	Quality assessment of gasoline using comprehensive twoâ€dimensional gas chromatography combined with unfolded partial least squares: A reliable approach for the detection of gasoline adulteration. Journal of Separation Science, 2016, 39, 367-374.	2.5	10
53	The Feasibility of Two Handheld Spectrometers for Meat Speciation Combined with Chemometric Methods and Its Application for Halal Certification. Foods, 2022, 11, 71.	4.3	10
54	Joint approximate diagonalization of eigenmatrices as a high-throughput approach for analysis of hyphenated and comprehensive two-dimensional gas chromatographic data. Journal of Chromatography A, 2017, 1524, 188-201.	3.7	9

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55	Quantitative analysis of multiple high-resolution mass spectrometry images using chemometric methods: quantitation of chlordecone in mouse liver. Analyst, The, 2018, 143, 2416-2425.	3.5	9
56	Gas chromatographic fingerprint analysis of secondary metabolites of Stachys lanata (Stachys) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70 methods. Journal of Chromatography A, 2019, 1602, 432-440.	3.7	9
57	Chemometrics-assisted isotope ratio fingerprinting based on gas chromatography/combustion/isotope ratio mass spectrometry for saffron authentication. Journal of Chromatography A, 2021, 1657, 462587.	3.7	9
58	Multi-response optimization followed by multivariate calibration for simultaneous determination of carcinogenic polycyclic aromatic hydrocarbons in environmental samples using gold nanoparticles. RSC Advances, 2016, 6, 104254-104264.	3.6	8
59	Fuzzy C-means clustering for chromatographic fingerprints analysis: A gas chromatographyâ€“mass spectrometry case study. Journal of Chromatography A, 2016, 1438, 236-243.	3.7	8
60	Multivariate curve resolution-particle swarm optimization: A high-throughput approach to exploit pure information from multi-component hyphenated chromatographic signals. Analytica Chimica Acta, 2013, 772, 16-25.	5.4	7
61	Analysis of Olive Fruit Essential Oil: Application of Gas Chromatography-Mass Spectrometry Combined with Chemometrics. International Journal of Food Properties, 2015, 18, 316-331.	3.0	7
62	Dataset of the application of handheld NIR and machine learning for chicken fillet authenticity study. Data in Brief, 2020, 29, 105357.	1.0	7
63	Metabolomics diagnostic approach to mustard airway diseases: a preliminary study. Iranian Journal of Basic Medical Sciences, 2018, 21, 59-69.	1.0	7
64	Multivariate Curve Resolution Methods for Qualitative and Quantitative Analysis in Analytical Chemistry. Data Handling in Science and Technology, 2015, , 293-345.	3.1	5
65	Fatty acids profiling of avocado seed and pulp using gas chromatographyâ€“mass spectrometry combined with multivariate chemometric techniques. Journal of the Iranian Chemical Society, 2016, 13, 1905-1913.	2.2	5
66	Sensitivity and generalized analytical sensitivity expressions for quantitative analysis using convolutional neural networks. Analytica Chimica Acta, 2022, 1192, 338697.	5.4	5
67	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. Microchemical Journal, 2020, 159, 105407.	4.5	4
68	Mutual information concept for evaluation of separation quality in hyphenated chromatographic measurements. Analyst, The, 2014, 139, 2574.	3.5	3
69	Evaluation of partial least-squares regression with multivariate analytical figures of merit for determination of 10 pesticides in milk. International Journal of Environmental Analytical Chemistry, 2022, 102, 1900-1910.	3.3	3
70	Ensemble classification and regression techniques combined with portable near infrared spectroscopy for facile and rapid detection of water adulteration in bovine raw milk. Journal of Chemometrics, 2023, 37, .	1.3	3
71	Big (Bio)Chemical Data Mining Using Chemometric Methods: A Need for Chemists. Angewandte Chemie, 2022, 134, .	2.0	1
72	Chemometric techniques coupled with NMR for matabolic profiling of lettuce exposed to polycyclic aromatic hydrocarbones. Analytical Biochemistry, 2020, 611, 113945.	2.4	1

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73	Independent Component Analysis in Analytical Chemistry. , 2020, , 57-83.		1