Hui-Wen Gu

List of Publications by Year
in descending order

73 papers	1,181 citations	331259 21 h-index	476904 29 g-index
74 all docs	74 docs citations	74 times ranked	928 citing authors

#	Article	IF	Citations
1	MATLAB in electrochemistry: A review. Talanta, 2019, 194, 205-225.	2.9	50
2	Multi-targeted interference-free determination of ten Î²-blockers in human urine and plasma samples by alternating trilinear decomposition algorithm-assisted liquid chromatographyâ€“mass spectrometry in full scan mode: Comparison with multiple reaction monitoring. Analytica Chimica Acta, 2014, 848, 10-24.	2.6	45
3	A dual-response biosensor for electrochemical and glucometer detection of DNA methyltransferase activity based on functionalized metal-organic framework amplification. Biosensors and Bioelectronics, 2019, 134, 117-122.	5.3	44
4	Simultaneous determination of umbelliferone and scopoletin in Tibetan medicine Saussurea laniceps and traditional Chinese medicine Radix angelicae pubescentis using excitation-emission matrix fluorescence coupled with second-order calibration method. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 170, 104-110.	2.0	39
5	Sensitive detection of streptomycin in milk using a hybrid signal enhancement strategy of MOF-based bio-bar code and target recycling. Analytica Chimica Acta, 2020, 1125, 1-7.	2.6	38
6	Simultaneous determination of phenolic antioxidants in edible vegetable oils by HPLCâ€“FLD assisted with second-order calibration based on ATLD algorithm. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2014, 947-948, 32-40.	1.2	36
7	Simultaneous co-immobilization of three enzymes onto a modified glassy carbon electrode to fabricate a high-performance amperometric biosensor for determination of total cholesterol. International Journal of Biological Macromolecules, 2018, 120, 587-595.	3.6	35
8	Developing an Excitation-Emission Matrix Fluorescence Spectroscopy Method Coupled with Multi-way Classification Algorithms for the Identification of the Adulteration of Shanxi Aged Vinegars. Food Analytical Methods, 2019, 12, 2306-2313.	1.3	35
9	Investigation of interactions of Comtan with human serum albumin by mathematically modeled voltammetric data: A study from bio-interaction to biosensing. Bioelectrochemistry, 2018, 123, 162-172.	2.4	33
10	Fast quantitative analysis of four tyrosine kinase inhibitors in different human plasma samples using three-way calibration- assisted liquid chromatography with diode array detection. Journal of Separation Science, 2015, 38, 2781-2788.	1.3	31
11	Dealing with overlapped and unaligned chromatographic peaks by second-order multivariate calibration for complex sample analysis: Fast and green quantification of eight selected preservatives in facial masks. Journal of Chromatography A, 2018, 1573, 18-27.	1.8	31
12	Rapid and simultaneous determination of five vinca alkaloids in Catharanthus roseus and human serum using trilinear component modeling of liquid chromatographyâ€“diode array detection data. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1026, 114-123.	1.2	30
13	HPLC-DAD fingerprints combined with chemometric techniques for the authentication of plucking seasons of Laoshan green tea. Food Chemistry, 2021, 347, 128959.	4.2	29
14	Chemometrics-assisted high performance liquid chromatography-diode array detection strategy to solve varying interfering patterns from different chromatographic columns and sample matrices for beverage analysis. Journal of Chromatography A, 2016, 1435, 75-84.	1.8	27
15	Differentiating grades of Xihu Longjing teas according to the contents of ten major components based on HPLC-DAD in combination with chemometrics. LWT - Food Science and Technology, 2020, 130, 109688.	2.5	27
16	Two- and three-way chemometric analyses for investigation of interactions of acarbose with normal and glycated human serum albumin: Developing a novel biosensing system. Microchemical Journal, 2021, 160, 105675.	2.3	27
17	A green chemometrics-assisted fluorimetric detection method for the direct and simultaneous determination of six polycyclic aromatic hydrocarbons in oil-field wastewaters. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 200, 93-101.	2.0	25
18	Chemometrics-enhanced high performance liquid chromatography-diode array detection strategy for simultaneous determination of eight co-eluted compounds in ten kinds of Chinese teas using second-order calibration method based on alternating trilinear decomposition algorithm. Journal of Chromatography A, 2014, 1364, 151-162.	1.8	24

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19	Chemometrics-enhanced full scan mode of liquid chromatographyâ€“mass spectrometry for the simultaneous determination of six co-eluted sulfonylurea-type oral antidiabetic agents in complex samples. Chemometrics and Intelligent Laboratory Systems, 2016, 155, 62-72.	1.8	24
20	Highly fluorescent N doped C-dots as sensor for selective detection of Hg2+ in beverages. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 265, 120392.	2.0	24
21	Synthesis of nordihydroguaiaretic acid derivatives and their bioactivities on S.Âpombe and K562 cell lines. European Journal of Medicinal Chemistry, 2013, 62, 605-613.	2.6	23
22	Multicolor enzyme-linked immunosorbent sensor for sensitive detection of organophosphorus pesticides based on TMB2+-mediated etching of gold nanorods. Microchemical Journal, 2021, 168, 106411.	2.3	23
23	Rapid and interference-free analysis of nine B-group vitamins in energy drinks using trilinear component modeling of liquid chromatography-mass spectrometry data. Talanta, 2018, 180, 108-119.	2.9	22
24	A novel fourth-order calibration method based on alternating quinquelinear decomposition algorithm for processing high performance liquid chromatographyâ€“diode array detectionâ€“ kinetic-pH data of naptalam hydrolysis. Analytica Chimica Acta, 2015, 861, 12-24.	2.6	21
25	Synthesis, crystal structure and biological properties of a bismuth(<scp>iii</scp>) Schiff-base complex. RSC Advances, 2015, 5, 94267-94275.	1.7	20
26	Geographical origin identification and chemical markers screening of Chinese green tea using two-dimensional fingerprints technique coupled with multivariate chemometric methods. Food Control, 2022, 135, 108795.	2.8	20
27	Four-way Self-weighted Alternating Normalized Residue Fitting Algorithm with Application for the Analysis of Serotonin in Human Plasma. Analytical Sciences, 2012, 28, 1097-1104.	0.8	19
28	Comparison of three-way and four-way calibration for the real-time quantitative analysis of drug hydrolysis in complex dynamic samples by excitation-emission matrix fluorescence. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 192, 437-445.	2.0	19
29	A flexible and novel strategy of alternating trilinear decomposition method coupled with two-dimensional linear discriminant analysis for three-way chemical data analysis: Characterization and classification. Analytica Chimica Acta, 2018, 1021, 28-40.	2.6	18
30	Simultaneous determination of tyrosine and levodopa in human plasma using enzyme-induced excitation-emission-kinetic third-order calibration method. Chemometrics and Intelligent Laboratory Systems, 2015, 148, 9-19.	1.8	17
31	Interference-free spectrofluorometric quantification of aristolochic acid I and aristololactam I in five Chinese herbal medicines using chemical derivatization enhancement and second-order calibration methods. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 175, 229-238.	2.0	17
32	Synthesis, Characterization, and Thermodynamic Properties of the Rare Earth Coordination Complex [Sm(C₆H₄NO₂)₂Â·C₉H₆NO]. Industrial & Engineering Chemistry Research, 2012, 51, 4797-4803.	1.8	16
33	Simultaneous determination of tyrosine and dopamine in urine samples using excitationâ€“emission matrix fluorescence coupled with second-order calibration. Chinese Chemical Letters, 2013, 24, 239-242.	4.8	16
34	Target-induced activation of DNAzyme for sensitive detection of bleomycin by using a simple MOF-modified electrode. Biosensors and Bioelectronics, 2021, 178, 113034.	5.3	16
35	Exploiting third-order advantage using four-way calibration method for direct quantitative analysis of active ingredients of Schisandra chinensis in DMEM by processing four-way excitationâ€“emission-solvent fluorescence data. Chemometrics and Intelligent Laboratory Systems, 2016, 155, 46-53.	1.8	15
36	Simultaneous determination of metoprolol and Î±-hydroxymetoprolol in human plasma using excitationâ€“emission matrix fluorescence coupled with second-order calibration methods. Bioanalysis, 2012, 4, 2781-2793.	0.6	14

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37	Second-order calibration method applied to process three-way excitationâ€“emission-kinetic fluorescence data: A novel tool for real-time quantitative analysis of the lactone hydrolysis of irinotecan in human plasma. Chemometrics and Intelligent Laboratory Systems, 2015, 146, 447-456.	1.8	13
38	Chemometrics-assisted determination of amiloride and triamterene in biological fluids with overlapped peaks and unknown interferences. Bioanalysis, 2015, 7, 1685-1697.	0.6	12
39	Development of an HPLC-DAD Method Combined with Chemometrics for Differentiating Geographical Origins of Chinese Red Wines on the Basis of Phenolic Compounds. Food Analytical Methods, 2021, 14, 1895-1907.	1.3	12
40	Solving signal instability to maintain the second-order advantage in the resolution and determination of multi-analytes in complex systems by modeling liquid chromatographyâ€“mass spectrometry data using alternating trilinear decomposition method assisted with piecewise direct standardization. Journal of Chromatography A, 2015, 1407, 157-168.	1.8	11
41	Calorimetric determination of the standard molar enthalpies of formation of o-vanillin and trimethoprim. Journal of Thermal Analysis and Calorimetry, 2015, 119, 721-726.	2.0	11
42	Interference-free analysis of aflatoxin B₁and G₁in various foodstuffs using trilinear component modeling of excitationâ€“emission matrix fluorescence data enhanced through photochemical derivatization. RSC Advances, 2016, 6, 25850-25863.	1.7	11
43	Synthesis, crystal structure and thermodynamic properties of a new praseodymium Schiff-base complex. Thermochimica Acta, 2014, 581, 118-122.	1.2	10
44	An interesting strategy devoted to fabrication of a novel and high-performance amperometric sodium dithionite sensor. Microchemical Journal, 2019, 144, 6-12.	2.3	10
45	Simultaneous determination of naphazoline and pyridoxine in eye drops using excitationâ€“emission matrix fluorescence coupled with second-order calibration method based on alternating trilinear decomposition algorithm. Chinese Chemical Letters, 2015, 26, 1446-1449.	4.8	9
46	A simple electrochemical method for Cd(II) determination in real samples based on carbon nanotubes and metal-organic frameworks. International Journal of Environmental Analytical Chemistry, 2022, 102, 4757-4767.	1.8	9
47	Impact of diverse background interferences on the alternating trilinear decomposition modeling of excitation-emission matrix fluorescence data acquired from different sample sources. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 232, 118173.	2.0	9
48	Synthesis, thermodynamic properties and BSA interaction of a new Valen Shiff base derived from o-vanillin and trimethoprim. Thermochimica Acta, 2014, 575, 291-299.	1.2	8
49	Angle Distribution of Loading Subspace (ADLS) for estimating chemical rank in multivariate analysis: Applications in spectroscopy and chromatography. Talanta, 2019, 194, 90-97.	2.9	8
50	Tracing sources of oilfield wastewater based on excitation-emission matrix fluorescence spectroscopy coupled with chemical pattern recognition techniques. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 281, 121596.	2.0	8
51	An alternating coupled two-unequal residual functions algorithm for second-order calibration. Analytical Methods, 2014, 6, 6322.	1.3	7
52	Chemical rank estimation for second-order calibration by discrete Fourier transform coupled with robust statistical analysis. Chemometrics and Intelligent Laboratory Systems, 2015, 141, 47-57.	1.8	7
53	Quantitative investigation of the dynamic interaction of human serum albumin with procaine using a multi-way calibration method coupled with three-dimensional fluorescence spectroscopy. Analytical Methods, 2015, 7, 6552-6560.	1.3	7
54	Simultaneous Determination of Irinotecan and Its Metabolite 7-Ethyl-10-hydroxycamptothecin in Biological Fluids Using Excitation-emission Matrix Fluorescence Coupled with Second-order Calibration Method. Acta Chimica Sinica, 2013, 71, 560.	0.5	7

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55	Determination of the standard molar enthalpy of formation of the ternary complex of neodymium with vitamin B3 and 8-hydroxylquinoline by microcalorimetry. Journal of Thermal Analysis and Calorimetry, 2013, 112, 1533-1538.	2.0	6
56	Synthesis and microcalorimetric determination of the bioactivities of a new Schiff base and its bismuth(III) complex derived from o-vanillin and 2,6-pyridinediamine. Journal of Thermal Analysis and Calorimetry, 2017, 127, 1767-1776.	2.0	6
57	Simultaneous Determination of Warfarin and Aspirin Contents in Biological Fluids Using Excitation-Emission Matrix Fluorescence Coupled with a Second-order Calibration Method. Analytical Sciences, 2017, 33, 29-34.	0.8	6
58	Rapid Determination of Costunolide and Dehydrocostuslactone in Human Plasma Sample and Chinese Patent Medicine Xiang Sha Yang Wei Capsule Using HPLCâ€ĐAD Coupled with Secondâ€•order Calibration. Chinese Journal of Chemistry, 2012, 30, 1137-1143.	2.6	5
59	Estimating the chemical rank of three-way fluorescence data by vector subspace projection with Monte Carlo simulation. Chemometrics and Intelligent Laboratory Systems, 2014, 136, 15-23.	1.8	5
60	Secondâ€•order calibration serves as a remedial measure for the simultaneous determination of andrographolide and dehydroandrographolide in Andrographis paniculata and its preparations by HPLC without complete baseline separation. Journal of Separation Science, 2018, 41, 3232-3240.	1.3	5
61	Synthesis and Thermochemical Properties of the Ternary Complex [Sm(m-NBA)₃phen]₂·2H₂O. Journal of Chemical & Engineering Data, 2010, 55, 1688-1692.	1.0	4
62	Synthesis and biothermokinetic study of a new Schiff base and its bismuth(III) complex on the growth metabolism of S. pombe and H. pylori cell lines. Journal of Thermal Analysis and Calorimetry, 2018, 132, 1913-1922.	2.0	4
63	A Modified Method for the Accurate Determination of Chemical Oxygen Demand (COD) in High Chloride Oilfield Wastewater. Open Journal of Yangtze Oil and Gas, 2018, 03, 263-277.	0.2	4
64	Removal of Background Drift Nonlinear Interference in 3-D Spectral Arrays for Multi-Way Calibration Using Trilinear Decomposition Methods. Acta Chimica Sinica, 2016, 74, 277.	0.5	4
65	Synthesis, Characterization, and Thermochemical Study on a Ternary Complex [Sm(m-MOBA)3phen]2. International Journal of Thermophysics, 2012, 33, 289-299.	1.0	3
66	Fluorescence spectroscopic studies on the interaction between a new bismuth(III) Schiff base complex and bovine serum albumin. Chemical Research in Chinese Universities, 2017, 33, 166-171.	1.3	3
67	Preparation and Thermochemical Properties of Ternary Complexes of Rare Earth Chlorides with Nicotinic Acid and 8-Hydroxylquinoline. Journal of Chemical & Engineering Data, 2012, 57, 269-273.	1.0	2
68	Prediction of chemical oxygen demand (COD) with total organic carbon (TOC) to eliminate the interferences of high concentration of chloride ion in oilfield wastewaters. International Journal of Environmental Analytical Chemistry, 2021, 101, 1209-1219.	1.8	2
69	Comparison of the performances of several commonly used algorithms for second-order calibration. Analytical Methods, 2018, 10, 4801-4812.	1.3	1
70	Construction and performance evaluation of a CSC-1 type horizontal rotating micro-bomb combustion-solution isoperibol multifunctional calorimeter. Journal of Chemical Thermodynamics, 2021, 160, 106505.	1.0	1
71	Design and Application of a Precise Isoperibol Combus-tion-Solution-Reaction Microcalorimeter. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2017, 33, 1114-1122.	2.2	1
72	Synthesis and bioactivity of a novel bismuthoxide Schiff-base complex derived from Salen-like ligand and bismuth(III) nitrate. Chemical Research in Chinese Universities, 2016, 32, 207-211.	1.3	0

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73	A new alternating weighted quadrilinear decomposition algorithm with application for analysis of non-quinquelinear five-way data arrays. Scientia Sinica Chimica, 2016, 46, 401-410.	0.2	0