

Mengliang Zhang

List of Publications by Year in descending order

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38
papers

615
citations

516710

16
h-index

642732

23
g-index

40
all docs

40
docs citations

40
times ranked

864
citing authors

#	ARTICLE	IF	CITATIONS
1	Comprehensive characterization of C-glycosyl flavones in wheat (<i>Triticum aestivum</i> L.) germ using UPLC-PDA-ESI/HRMS and mass defect filtering. <i>Journal of Mass Spectrometry</i> , 2016, 51, 914-930.	1.6	80
2	Simultaneous quantitation of hydrochlorothiazide and metoprolol in human plasma by liquid chromatography-tandem mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 52, 149-154.	2.8	39
3	Discrimination of brands of gasoline by using DART-MS and chemometrics. <i>Forensic Chemistry</i> , 2018, 10, 58-66.	2.8	28
4	GLS-Finder: A Platform for Fast Profiling of Glucosinolates in <i>Brassica</i> Vegetables. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 4407-4415.	5.2	27
5	FlavonQ: An Automated Data Processing Tool for Profiling Flavone and Flavonol Glycosides with Ultra-High-Performance Liquid Chromatography-Diode Array Detection-High Resolution Accurate Mass-Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 9974-9981.	6.5	26
6	Field Analysis of Polychlorinated Biphenyls (PCBs) in Soil Using Solid-Phase Microextraction (SPME) and a Portable Gas Chromatography-Mass Spectrometry System. <i>Applied Spectroscopy</i> , 2016, 70, 785-793.	2.2	23
7	Detection and Classification of Ignitable Liquid Residues in the Presence of Matrix Interferences by Using Direct Analysis in Real Time Mass Spectrometry,. <i>Journal of Forensic Sciences</i> , 2019, 64, 1486-1494.	1.6	23
8	Development of a Comprehensive Flavonoid Analysis Computational Tool for Ultrahigh-Performance Liquid Chromatography-Diode Array Detection-High-Resolution Accurate Mass-Mass Spectrometry Data. <i>Analytical Chemistry</i> , 2017, 89, 7388-7397.	6.5	22
9	Antitumor and immunomodulatory activities of total flavonoids extract from persimmon leaves in H22 liver tumor-bearing mice. <i>Scientific Reports</i> , 2018, 8, 10523.	3.3	22
10	Forensic Fiber Analysis by Thermal Desorption/Pyrolysis-Direct Analysis in Real Time-Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 1925-1933.	6.5	20
11	Comparison of Three Algorithms for the Baseline Correction of Hyphenated Data Objects. <i>Analytical Chemistry</i> , 2014, 86, 9050-9057.	6.5	19
12	Simultaneous analysis of isomers of escin saponins in human plasma by liquid chromatography-tandem mass spectrometry: Application to a pharmacokinetic study after oral administration. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2010, 878, 861-867.	2.3	18
13	Practical investigation of direct analysis in real time mass spectrometry for fast screening of explosives. <i>Forensic Chemistry</i> , 2020, 18, 100233.	2.8	18
14	MS ^{All} strategy for comprehensive quantitative analysis of PEGylated-doxorubicin, PEG and doxorubicin by LC-high resolution q-q-TOF mass spectrometry coupled with all window acquisition of all fragment ion spectra. <i>Analyst</i> , 2017, 142, 4279-4288.	3.5	17
15	Chemical analysis and classification of black pepper (<i>Piper nigrum</i> L.) based on their country of origin using mass spectrometric methods and chemometrics. <i>Food Research International</i> , 2021, 140, 109877.	6.2	17
16	Automated pipeline for classifying Aroclors in soil by gas chromatography/mass spectrometry using modulo compressed two-way data objects. <i>Talanta</i> , 2013, 117, 483-491.	5.5	16
17	Feruloyl dopamine-O-hexosides are efficient marker compounds as orthogonal validation for authentication of black cohosh (<i>Actaea racemosa</i>)’an UHPLC-HRAM-MS chemometrics study. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 2591-2600.	3.7	16
18	The analysis of phenolic compounds in daylily using UHPLC-HRMS and evaluation of drying processing method by fingerprinting and metabolomic approaches. <i>Journal of Food Processing and Preservation</i> , 2018, 42, e13325.	2.0	16

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19	Hindlimb motor responses to unilateral brain injury: spinal cord encoding and left-right asymmetry. <i>Brain Communications</i> , 2020, 2, fcaa055.	3.3	15
20	LC-MS/MS Determination of Troxerutin in Plasma and Its Application to a Pharmacokinetic Study. <i>Chromatographia</i> , 2011, 73, 165-169.	1.3	14
21	Simultaneous quantification of Aroclor mixtures in soil samples by gas chromatography/mass spectrometry with solid phase microextraction using partial least-squares regression. <i>Chemosphere</i> , 2015, 118, 187-193.	8.2	14
22	The classification of Cannabis hemp cultivars by thermal desorption direct analysis in real time mass spectrometry (TD-DART-MS) with chemometrics. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 8133-8142.	3.7	14
23	Ipsilesional versus contralesional postural deficits induced by unilateral brain trauma: a side reversal by opioid mechanism. <i>Brain Communications</i> , 2020, 2, fcaa208.	3.3	14
24	Use of fuzzy chromatography mass spectrometric (FCMS) fingerprinting and chemometric analysis for differentiation of whole-grain and refined wheat (<i>T. aestivum</i>) flour. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 7875-7888.	3.7	12
25	Left-Right Side-Specific Neuropeptide Mechanism Mediates Contralateral Responses to a Unilateral Brain Injury. <i>ENeuro</i> , 2021, 8, ENEURO.0548-20.2021.	1.9	10
26	A computational tool for accelerated analysis of oligomeric proanthocyanidins in plants. <i>Journal of Food Composition and Analysis</i> , 2017, 56, 124-133.	3.9	9
27	Determination of Aroclor 1260 in soil samples by gas chromatography with mass spectrometry and solid-phase microextraction. <i>Journal of Separation Science</i> , 2014, 37, 2751-2756.	2.5	8
28	Application of chemometrics to resolve overlapping mass spectral peak clusters between trichloroethylene and its deuterated internal standard. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 789-794.	1.5	8
29	Determination of Variance of Secondary Metabolites in Lettuces Grown Under Different Light Sources by Flow Injection Mass Spectrometric (FIMS) Fingerprinting and ANOVA-PCA. <i>Journal of Analysis and Testing</i> , 2018, 2, 312-321.	5.1	8
30	Effect of nighttime UV-C irradiation of strawberry plants on phenolic content of fruit: Targeted and non-targeted metabolomic analysis. <i>Journal of Berry Research</i> , 2020, 10, 365-380.	1.4	8
31	Unilateral traumatic brain injury of the left and right hemisphere produces the left hindlimb response in rats. <i>Experimental Brain Research</i> , 2021, 239, 2221-2232.	1.5	6
32	Classification of Cultivation Locations of Black Pepper (<i>Piper nigrum</i> L.) using Gas Chromatography and Chemometrics. <i>Current Chromatography</i> , 2015, 2, 145-151.	0.3	6
33	Differentiation of <i>Aurantii fructus immaturus</i> and <i>Fructus poncirii trifoliatae immaturus</i> by Flow-Injection with Ultraviolet Spectroscopic Detection and Proton Nuclear Magnetic Resonance Using Partial Least-Squares Discriminant Analysis. <i>Analytical Letters</i> , 2016, 49, 711-722.	1.8	5
34	Vibronic Excitons and Conical Intersections in Semiconductor Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9677-9683.	4.6	5
35	Determination of Trichloroethylene in Water by Liquid-Liquid Microextraction Assisted Solid Phase Microextraction. <i>Chromatography (Basel)</i> , 2015, 2, 66-78.	1.2	4
36	Rapid and Sensitive Identification and Discrimination of Bound/Unbound Ligands on Colloidal Nanocrystals via Direct Analysis in Real-Time Mass Spectrometry. <i>Langmuir</i> , 2021, 37, 14703-14712.	3.5	3

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37	Development of a Metabolite Ratio Rule-Based Method for Automated Metabolite Profiling and Species Differentiation of Four Major Cinnamon Species. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 5450-5457.	5.2	2
38	Simultaneous Determination of Escin Ia and Its Isomer Isoescins Ia by LC-MS/MS: Application to a Pharmacokinetic Study of Escin Ia in Rats. <i>Chromatographia</i> , 2011, 74, 243-250.	1.3	1