Mengliang Zhang

List of Publications by Year
in descending order

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	Development of a Metabolite Ratio Rule-Based Method for Automated Metabolite Profiling and Species Differentiation of Four Major Cinnamon Species. Journal of Agricultural and Food Chemistry, 2022, 70, 5450-5457.	5.2	2
2	Chemical analysis and classification of black pepper (Piper nigrum L.) based on their country of origin using mass spectrometric methods and chemometrics. Food Research International, 2021, 140, 109877.	6.2	17
3	Left-Right Side-Specific Neuropeptide Mechanism Mediates Contralateral Responses to a Unilateral Brain Injury. ENeuro, 2021, 8, ENEURO.0548-20.2021.	1.9	10
4	Unilateral traumatic brain injury of the left and right hemisphere produces the left hindlimb response in rats. Experimental Brain Research, 2021, 239, 2221-2232.	1.5	6
5	Vibronic Excitons and Conical Intersections in Semiconductor Quantum Dots. Journal of Physical Chemistry Letters, 2021, 12, 9677-9683.	4.6	5
6	Rapid and Sensitive Identification and Discrimination of Bound/Unbound Ligands on Colloidal Nanocrystals via Direct Analysis in Real-Time Mass Spectrometry. Langmuir, 2021, 37, 14703-14712.	3.5	3
7	Forensic Fiber Analysis by Thermal Desorption/Pyrolysis-Direct Analysis in Real Time-Mass Spectrometry. Analytical Chemistry, 2020, 92, 1925-1933.	6.5	20
8	Hindlimb motor responses to unilateral brain injury: spinal cord encoding and left-right asymmetry. Brain Communications, 2020, 2, fcaa055.	3.3	15
9	Effect of nighttime UV-C irradiation of strawberry plants on phenolic content of fruit: Targeted and non-targeted metabolomic analysis. Journal of Berry Research, 2020, 10, 365-380.	1.4	8
10	Practical investigation of direct analysis in real time mass spectrometry for fast screening of explosives. Forensic Chemistry, 2020, 18, 100233.	2.8	18
11	Ipsilesional versus contralesional postural deficits induced by unilateral brain trauma: a side reversal by opioid mechanism. Brain Communications, 2020, 2, fcaa208.	3.3	14
12	Detection and Classification of Ignitable Liquid Residues in the Presence of Matrix Interferences by Using Direct Analysis in Real Time Mass Spectrometry,. Journal of Forensic Sciences, 2019, 64, 1486-1494.	1.6	23
13	The classification of Cannabis hemp cultivars by thermal desorption direct analysis in real time mass spectrometry (TD-DART-MS) with chemometrics. Analytical and Bioanalytical Chemistry, 2019, 411, 8133-8142.	3.7	14
14	The analysis of phenolic compounds in daylily using UHPLC-HRMSⁿand evaluation of drying processing method by fingerprinting and metabolomic approaches. Journal of Food Processing and Preservation, 2018, 42, e13325.	2.0	16
15	Determination of Variance of Secondary Metabolites in Lettuces Grown Under Different Light Sources by Flow Injection Mass Spectrometric (FIMS) Fingerprinting and ANOVAâ€“PCA. Journal of Analysis and Testing, 2018, 2, 312-321.	5.1	8
16	Discrimination of brands of gasoline by using DART-MS and chemometrics. Forensic Chemistry, 2018, 10, 58-66.	2.8	28
17	Antitumor and immunomodulatory activities of total flavonoids extract from persimmon leaves in H22 liver tumor-bearing mice. Scientific Reports, 2018, 8, 10523.	3.3	22
18	A computational tool for accelerated analysis of oligomeric proanthocyanidins in plants. Journal of Food Composition and Analysis, 2017, 56, 124-133.	3.9	9

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19	Feruloyl dopamine-O-hexosides are efficient marker compounds as orthogonal validation for authentication of black cohosh (Actaea racemosa)â€"an UHPLC-HRAM-MS chemometrics study. Analytical and Bioanalytical Chemistry, 2017, 409, 2591-2600.	3.7	16
20	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. Analyst, The, 2017, 142, 4279-4288.	3.5	17
21	Development of a Comprehensive Flavonoid Analysis Computational Tool for Ultrahigh-Performance Liquid Chromatography-Diode Array Detection-High-Resolution Accurate Mass-Mass Spectrometry Data. Analytical Chemistry, 2017, 89, 7388-7397.	6.5	22
22	GLS-Finder: A Platform for Fast Profiling of Glucosinolates in Brassica Vegetables. Journal of Agricultural and Food Chemistry, 2016, 64, 4407-4415.	5.2	27
23	Comprehensive characterization ofC-glycosyl flavones in wheat (Triticum aestivumL.) germ using UPLC-PDA-ESI/HRMSⁿand mass defect filtering. Journal of Mass Spectrometry, 2016, 51, 914-930.	1.6	80
24	Field Analysis of Polychlorinated Biphenyls (PCBs) in Soil Using Solid-Phase Microextraction (SPME) and a Portable Gas Chromatographyâ€"Mass Spectrometry System. Applied Spectroscopy, 2016, 70, 785-793.	2.2	23
25	Differentiation ofAurantii fructus immaturusandFructus poniciri trifoliatae immaturusby Flow-Injection with Ultraviolet Spectroscopic Detection and Proton Nuclear Magnetic Resonance Using Partial Least-Squares Discriminant Analysis. Analytical Letters, 2016, 49, 711-722.	1.8	5
26	Application of chemometrics to resolve overlapping mass spectral peak clusters between trichloroethylene and its deuterated internal standard. Rapid Communications in Mass Spectrometry, 2015, 29, 789-794.	1.5	8
27	Determination of Trichloroethylene in Water by Liquidâ€"Liquid Microextraction Assisted Solid Phase Microextraction. Chromatography (Basel), 2015, 2, 66-78.	1.2	4
28	FlavonQ: An Automated Data Processing Tool for Profiling Flavone and Flavonol Glycosides with Ultra-High-Performance Liquid Chromatographyâ€"Diode Array Detectionâ€"High Resolution Accurate Massâ€"Mass Spectrometry. Analytical Chemistry, 2015, 87, 9974-9981.	6.5	26
29	Use of fuzzy chromatography mass spectrometric (FCMS) fingerprinting and chemometric analysis for differentiation of whole-grain and refined wheat (T. aestivum) flour. Analytical and Bioanalytical Chemistry, 2015, 407, 7875-7888.	3.7	12
30	Simultaneous quantification of Aroclor mixtures in soil samples by gas chromatography/mass spectrometry with solid phase microextraction using partial least-squares regression. Chemosphere, 2015, 118, 187-193.	8.2	14
31	Classification of Cultivation Locations of Black Pepper (Piper nigrum L.) using Gas Chromatography and Chemometrics. Current Chromatography, 2015, 2, 145-151.	0.3	6
32	Determination of Aroclor 1260 in soil samples by gas chromatography with mass spectrometry and solid-phase microextraction. Journal of Separation Science, 2014, 37, 2751-2756.	2.5	8
33	Comparison of Three Algorithms for the Baseline Correction of Hyphenated Data Objects. Analytical Chemistry, 2014, 86, 9050-9057.	6.5	19
34	Automated pipeline for classifying Aroclors in soil by gas chromatography/mass spectrometry using modulo compressed two-way data objects. Talanta, 2013, 117, 483-491.	5.5	16
35	LCâ€"MSâ€"MS Determination of Troxerutin in Plasma and Its Application to a Pharmacokinetic Study. Chromatographia, 2011, 73, 165-169.	1.3	14
36	Simultaneous Determination of Escin Ia and Its Isomer Isoescin Ia by LCâ€"MSâ€"MS: Application to a Pharmacokinetic Study of Escin Ia in Rats. Chromatographia, 2011, 74, 243-250.	1.3	1

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37	Simultaneous analysis of isomers of escin saponins in human plasma by liquid chromatographyâ€“tandem mass spectrometry: Application to a pharmacokinetic study after oral administration. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2010, 878, 861-867.	2.3	18
38	Simultaneous quantitation of hydrochlorothiazide and metoprolol in human plasma by liquid chromatographyâ€“tandem mass spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2010, 52, 149-154.	2.8	39