Wen-Zhi Yang

List of Publications by Year
in descending order

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86 papers	3,296 citations	117625 34 h-index	168389 53 g-index
86 all docs	86 docs citations	86 times ranked	2396 citing authors

#	Article	IF	Citations
1	Saponins in the genus Panax L. (Araliaceae): A systematic review of their chemical diversity. Phytochemistry, 2014, 106, 7-24.	2.9	247
2	Approaches to establish Q-markers for the quality standards of traditional Chinese medicines. Acta Pharmaceutica Sinica B, 2017, 7, 439-446.	12.0	190
3	A strategy for efficient discovery of new natural compounds by integrating orthogonal column chromatography and liquid chromatography/mass spectrometry analysis: Its application in Panax ginseng, Panax quinquefolium and Panax notoginseng to characterize 437 potential new ginsenosides. Analytica Chimica Acta, 2012, 739, 56-66.	5.4	157
4	A green protocol for efficient discovery of novel natural compounds: Characterization of new ginsenosides from the stems and leaves of Panax ginseng as a case study. Analytica Chimica Acta, 2015, 893, 65-76.	5.4	107
5	Nontargeted metabolomic analysis and â€œcommercial-homophyleticâ€•comparison-induced biomarkers verification for the systematic chemical differentiation of five different parts of Panax ginseng. Journal of Chromatography A, 2016, 1453, 78-87.	3.7	93
6	An in-source multiple collision-neutral loss filtering based nontargeted metabolomics approach for the comprehensive analysis of malonyl-ginsenosides from Panax ginseng , P.Âquinquefolius , and P.Ânotoginseng. Analytica Chimica Acta, 2017, 952, 59-70.	5.4	87
7	Identification and differentiation of Panax ginseng, Panax quinquefolium, and Panax notoginseng by monitoring multiple diagnostic chemical markers. Acta Pharmaceutica Sinica B, 2016, 6, 568-575.	12.0	85
8	An intelligentized strategy for endogenous small molecules characterization and quality evaluation of earthworm from two geographic origins by ultra-high performance HILIC/QTOF MSE and Progenesis QI. Analytical and Bioanalytical Chemistry, 2016, 408, 3881-3890.	3.7	81
9	Rapid characterization of chemical constituents and rats metabolites of the traditional Chinese patent medicine Gegen-Qinlian-Wan by UHPLC/DAD/qTOF-MS. Journal of Pharmaceutical and Biomedical Analysis, 2013, 72, 99-108.	2.8	73
10	An enhanced targeted identification strategy for the selective identification of flavonoid O -glycosides from Carthamus tinctorius by integrating offline two-dimensional liquid chromatography/linear ion-trap-Orbitrap mass spectrometry, high-resolution diagnostic product ions/neutral loss filtering and liquid chromatography-solid phase extraction-nuclear magnetic resonance. Journal of Chromatography A, 2017, 1491, 87-97.	3.7	70
11	Mass defect filtering-oriented classification and precursor ions list-triggered high-resolution mass spectrometry analysis for the discovery of indole alkaloids from Uncaria sinensis. Journal of Chromatography A, 2017, 1516, 102-113.	3.7	70
12	Global profiling combined with predicted metabolites screening for discovery of natural compounds: Characterization of ginsenosides in the leaves of Panax notoginseng as a case study. Journal of Chromatography A, 2018, 1538, 34-44.	3.7	67
13	Collision-Induced Dissociation of 40 Flavonoid Aglycones and Differentiation of the Common Flavonoid Subtypes Using Electrospray Ionization Ion-Trap Tandem Mass Spectrometry and Quadrupole Time-of-Flight Mass Spectrometry. European Journal of Mass Spectrometry, 2012, 18, 493-503.	1.0	63
14	Simultaneously targeted and untargeted multicomponent characterization of Erzhi Pill by offline two-dimensional liquid chromatography/quadrupole-Orbitrap mass spectrometry. Journal of Chromatography A, 2019, 1584, 87-96.	3.7	63
15	An integrated strategy for the systematic characterization and discovery of new indole alkaloids from Uncaria rhynchophylla by UHPLC/DAD/LTQ-Orbitrap-MS. Analytical and Bioanalytical Chemistry, 2015, 407, 6057-6070.	3.7	60
16	Simultaneous quantitation of five Panax notoginseng saponins by multi heart-cutting two-dimensional liquid chromatography: Method development and application to the quality control of eight Notoginseng containing Chinese patent medicines. Journal of Chromatography A, 2015, 1402, 71-81.	3.7	58
17	Systematic profiling and comparison of the lipidomes from Panax ginseng , P. quinquefolius , and P. notoginseng by ultrahigh performance supercritical fluid chromatography/high-resolution mass spectrometry and ion mobility-derived collision cross section measurement. Journal of Chromatography A, 2018, 1548, 64-75.	3.7	57
18	An enhanced strategy integrating offline two-dimensional separation and step-wise precursor ion list-based raster-mass defect filter: Characterization of indole alkaloids in five botanical origins of Uncariae Ramulus Cum Unicis as an exemplary application. Journal of Chromatography A, 2018, 1563, 124-134.	3.7	57

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19	Method development and application of offline two-dimensional liquid chromatography/quadrupole time-of-flight mass spectrometry-fast data directed analysis for comprehensive characterization of the saponins from Xueshuantong Injection. Journal of Pharmaceutical and Biomedical Analysis, 2016, 128, 322-332.	2.8	56
20	Malonylginsenosides with Potential Antidiabetic Activities from the Flower Buds of Panax ginseng. Journal of Natural Products, 2017, 80, 899-908.	3.0	55
21	In-depth profiling, characterization, and comparison of the ginsenosides among three different parts (the root, stem leaf, and flower bud) of Panax quinquefolius L. by ultra-high performance liquid chromatography/quadrupole-Orbitrap mass spectrometry. Analytical and Bioanalytical Chemistry, 2019, 411, 7817-7829.	3.7	54
22	Low energy induced homolytic fragmentation of flavonol 3â€Oâ€glycosides by negative electrospray ionization tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2014, 28, 385-395.	1.5	53
23	TCM-based new drug discovery and development in China. Chinese Journal of Natural Medicines, 2014, 12, 241-250.	1.3	53
24	Advances and challenges in ginseng research from 2011 to 2020: the phytochemistry, quality control, metabolism, and biosynthesis. Natural Product Reports, 2022, 39, 875-909.	10.3	53
25	Rapid chemical profiling of saponins in the flower buds of Panax notoginseng by integrating MCI gel column chromatography and liquid chromatography/mass spectrometry analysis. Food Chemistry, 2013, 139, 762-769.	8.2	52
26	Offline two-dimensional liquid chromatography coupled with ion mobility-quadrupole time-of-flight mass spectrometry enabling four-dimensional separation and characterization of the multicomponents from white ginseng and red ginseng. Journal of Pharmaceutical Analysis, 2020, 10, 597-609.	5.3	52
27	Simultaneous Profiling and Holistic Comparison of the Metabolomes among the Flower Buds of Panax ginseng, Panax quinquefolius, and Panax notoginseng by UHPLC/IM-QTOF-HDMSE-Based Metabolomics Analysis. Molecules, 2019, 24, 2188.	3.8	47
28	Integration of Data-Dependent Acquisition (DDA) and Data-Independent High-Definition MSE (HDMSE) for the Comprehensive Profiling and Characterization of Multicomponents from Panax japonicus by UHPLC/IM-QTOF-MS. Molecules, 2019, 24, 2708.	3.8	44
29	HPLC/qTOF-MS-oriented characteristic components data set and chemometric analysis for the holistic quality control of complex TCM preparations: Niuhuang Shangqing pill as an example. Journal of Pharmaceutical and Biomedical Analysis, 2014, 89, 130-141.	2.8	43
30	Selective ion monitoring of quinochalcone C -glycoside markers for the simultaneous identification of Carthamus tinctorius L. in eleven Chinese patent medicines by UHPLC/QTOF MS. Journal of Pharmaceutical and Biomedical Analysis, 2016, 117, 510-521.	2.8	43
31	UHPLCâ€"Qâ€TOFâ€MSâ€based metabolomics approach to compare the saponin compositions of Xueshuantong injection and Xuesaitong injection. Journal of Separation Science, 2017, 40, 834-841.	2.5	40
32	Direct screening of malonylginsenosides from nine Ginseng extracts by an untargeted profiling strategy incorporating in-source collision-induced dissociation, mass tag, and neutral loss scan on a hybrid linear ion-trap/Orbitrap mass spectrometer coupled to ultra-high performance liquid chromatography. Journal of Chromatography A, 2018, 1571, 213-222.	3.7	39
33	Supercritical fluid chromatography for separation and preparation of tautomeric 7-epimeric spiro oxindole alkaloids from Uncaria macrophylla. Journal of Pharmaceutical and Biomedical Analysis, 2017, 134, 352-360.	2.8	38
34	A novel hybrid scan approach enabling the ion-mobility separation and the alternate data-dependent and data-independent acquisitions (HDDIDDA): Its combination with off-line two-dimensional liquid chromatography for comprehensively characterizing the multicomponents from Compound Danshen Dripping Pill. Analytica Chimica Acta, 2022, 1193, 339320.	5.4	38
35	A novel neutral loss/product ion scan-incorporated integral approach for the untargeted characterization and comparison of the carboxyl-free ginsenosides from Panax ginseng, Panax quinquefolius, and Panax notoginseng. Journal of Pharmaceutical and Biomedical Analysis, 2020, 177, 112813.	2.8	34
36	Highly selective monitoring of in-source fragmentation sapogenin product ions in positive mode enabling group-target ginsenosides profiling and simultaneous identification of seven Panax herbal medicines. Journal of Chromatography A, 2020, 1618, 460850.	3.7	34

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37	Pharmacokinetic studies unveiled the drugâ€“drug interaction between trans-2,3,5,4â€²-tetrahydroxystilbene-2-O-Î²-d-glucopyranoside and emodin that may contribute to the idiosyncratic hepatotoxicity of Polygoni Multiflori Radix. Journal of Pharmaceutical and Biomedical Analysis, 2019, 164, 672-680.	2.8	32
38	¹H NMR and UHPLC/Q-Orbitrap-MS-Based Metabolomics Combined with 16S rRNA Gut Microbiota Analysis Revealed the Potential Regulation Mechanism of Nuciferine in Hyperuricemia Rats. Journal of Agricultural and Food Chemistry, 2020, 68, 14059-14070.	5.2	32
39	Application of multiple chemical and biological approaches for quality assessment of Carthamus tinctorius L. (safflower) by determining both the primary and secondary metabolites. Phytomedicine, 2019, 58, 152826.	5.3	31
40	Selective and comprehensive characterization of the quinochalcone C-glycoside homologs in Carthamus tinctorius L. by offline comprehensive two-dimensional liquid chromatography/LTQ-Orbitrap MS coupled with versatile data mining strategies. RSC Advances, 2016, 6, 495-506.	3.6	30
41	A strategy for establishment of practical identification methods for Chinese patent medicine from systematic multi-component characterization to selective ion monitoring of chemical markers: Shuxiong tablet as a case study. RSC Advances, 2016, 6, 65055-65066.	3.6	28
42	Enhanced identification of the in vivo metabolites of Ecliptae Herba in rat plasma by integrating untargeted data-dependent MS2 and predictive multiple reaction monitoring-information dependent acquisition-enhanced product ion scan. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2019, 1109, 99-111.	2.3	27
43	Configuration of the ion exchange chromatography, hydrophilic interaction chromatography, and reversed-phase chromatography as off-line three-dimensional chromatography coupled with high-resolution quadrupole-Orbitrap mass spectrometry for the multicomponent characterization of Uncaria sessilifructus. Journal of Chromatography A, 2021, 1649, 462237.	3.7	27
44	Rapid Discovery of the Potential Toxic Compounds in Polygonum multiflorum by UHPLC/Q-Orbitrap-MS-Based Metabolomics and Correlation Analysis. Frontiers in Pharmacology, 2019, 10, 329.	3.5	26
45	New triterpenic acids from Uncaria rhynchophylla: Chemistry, NO-inhibitory activity, and tandem mass spectrometric analysis. FÃ¬toterapÃ¬Ã¢, 2014, 96, 39-47.	2.2	25
46	Integration of multicomponent characterization, untargeted metabolomics and mass spectrometry imaging to unveil the holistic chemical transformations and key markers associated with wine steaming of Ligustri Lucidi Fructus. Journal of Chromatography A, 2020, 1624, 461228.	3.7	25
47	Multi-level fingerprinting and cardiomyocyte protection evaluation for comparing polysaccharides from six Panax herbal medicines. Carbohydrate Polymers, 2022, 277, 118867.	10.2	24
48	Holistic quality evaluation of Saposhnikoviae Radix (Saposhnikovia divaricata) by reversed-phase ultra-high performance liquid chromatography and hydrophilic interaction chromatography coupled with ion mobility quadrupole time-of-flight mass spectrometry-based untargeted metabolomics. Arabian Journal of Chemistry, 2020, 13, 8835-8847.	4.9	23
49	Ultra-high performance liquid chromatography/ion mobility time-of-flight mass spectrometry-based untargeted metabolomics combined with quantitative assay unveiled the metabolic difference among the root, leaf, and flower bud of Panax notoginseng. Arabian Journal of Chemistry, 2021, 14, 103409.	4.9	23
50	Systematic Profiling of the Multicomponents and Authentication of Erzhi Pill by UHPLC/Q-Orbitrap-MS Oriented Rapid Polarity-Switching Data-Dependent Acquisition and Selective Monitoring of the Chemical Markers Deduced from Fingerprint Analysis. Molecules, 2018, 23, 3143.	3.8	21
51	Data-Dependent Acquisition and Database-Driven Efficient Peak Annotation for the Comprehensive Profiling and Characterization of the Multicomponents from Compound Xueshuantong Capsule by UHPLC/IM-QTOF-MS. Molecules, 2019, 24, 3431.	3.8	21
52	A metabolomics strategy for authentication of plant medicines with multiple botanical origins, a case study of Uncariae Rammulus Cum Uncis. Journal of Separation Science, 2020, 43, 1043-1050.	2.5	21
53	A multi-dimensional liquid chromatography/high-resolution mass spectrometry approach combined with computational data processing for the comprehensive characterization of the multicomponents from Cuscuta chinensis. Journal of Chromatography A, 2022, 1675, 463162.	3.7	21
54	Colon-derived uremic biomarkers induced by the acute toxicity of Kansui radix: A metabolomics study of rat plasma and intestinal contents by UPLC-QTOF-MS E. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1026, 193-203.	2.3	19

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55	An efficient and target-oriented sample enrichment method for preparative separation of minor alkaloids by pH-zone-refining counter-current chromatography. Journal of Chromatography A, 2015, 1409, 159-165.	3.7	18
56	Geographic impact evaluation of the quality of Alismatis Rhizoma by untargeted metabolomics and quantitative assay. Journal of Separation Science, 2018, 41, 839-846.	2.5	18
57	A novel ion mobility separation-enabled and precursor ions list-included high-definition data-dependent acquisition (HDDDA) approach: Method development and its application to the comprehensive multicomponent characterization of Fangji Huangqi Decoction. Arabian Journal of Chemistry, 2021, 14, 103087.	4.9	18
58	A four-dimensional separation approach by offline 2D-LC/IM-TOF-MS in combination with database-driven computational peak annotation facilitating the in-depth characterization of the multicomponents from Atractylodis Macrocephalae Rhizoma (Atractylodes macrocephala). Arabian Journal of Chemistry, 2021, 14, 102957.	4.9	17
59	Simultaneous quantitative assays of 15 ginsenosides from 119 batches of ginseng samples representing 12 traditional Chinese medicines by ultra-high performance liquid chromatography coupled with charged aerosol detector. Journal of Chromatography A, 2021, 1655, 462504.	3.7	17
60	An off-line three-dimensional liquid chromatography/Q-Orbitrap mass spectrometry approach enabling the discovery of 1561 potentially unknown ginsenosides from the flower buds of Panax ginseng, Panax quinquefolius and Panax notoginseng. Journal of Chromatography A, 2022, 1675, 463177.	3.7	16
61	Discriminatory Components Retracing Strategy for Monitoring the Preparation Procedure of Chinese Patent Medicines by Fingerprint and Chemometric Analysis. PLoS ONE, 2015, 10, e0121366.	2.5	15
62	Anti-perimenopausal osteoporosis effects of Erzhi formula via regulation of bone resorption through osteoclast differentiation: A network pharmacology-integrated experimental study. Journal of Ethnopharmacology, 2021, 270, 113815.	4.1	15
63	Neutral Loss Ion Mapping Experiment Combined with Precursor Mass List and Dynamic Exclusion for Screening Unstable Malonyl Glucoside Conjugates. Journal of the American Society for Mass Spectrometry, 2016, 27, 99-107.	2.8	13
64	Systematic quality evaluation of Peiyuan Tongnao capsule by offline two-dimensional liquid chromatography/quadrupole-Orbitrap mass spectrometry and adjusted parallel reaction monitoring of quality markers. Analytical and Bioanalytical Chemistry, 2019, 411, 7747-7760.	3.7	13
65	New monoterpenoid oxindole alkaloid derivatives from the stems of Uncaria hirsuta Havil. and their cytotoxicity and tandem mass spectrometric fragmentation. FÃ¬toterapÃ¬Ã¢, 2017, 116, 85-92.	2.2	12
66	Ultra-high performance liquid chromatography/ion mobility-quadrupole time-of-flight mass spectrometry and database-driven automatic peak annotation for the rapid profiling and characterization of the multicomponents from stephaniae tetrandrae radix (Fang-Ji). World Journal of Traditional Chinese Medicine, 2021, 7, 120.	1.9	12
67	Integrating chemical profiling and network pharmacology analysis based on antiâ€inflammatory effects for quality control of Scutellaria barbata. Phytochemical Analysis, 2021, 32, 1141-1151.	2.4	11
68	An ion mobility-enabled and high-efficiency hybrid scan approach in combination with ultra-high performance liquid chromatography enabling the comprehensive characterization of the multicomponents from Carthamus tinctorius. Journal of Chromatography A, 2022, 1667, 462904.	3.7	11
69	Application of Large-Scale Molecular Prediction for Creating the Preferred Precursor Ions List to Enhance the Identification of Ginsenosides from the Flower Buds of Panax ginseng. Journal of Agricultural and Food Chemistry, 2022, 70, 5932-5944.	5.2	11
70	Comprehensive multicomponent characterization and fingerprinting analysis of Lanqin Oral Liquid by ultraâ€highâ€performance liquid chromatography coupled with ion mobilityâ€quadrupole timeâ€ofâ€flight mass spectrometry. Journal of Separation Science, 2021, 44, 4111-4122.	2.5	10
71	Global identification and determination of the major constituents in Kai-Xin-San by ultra-performance liquid chromatography-quadrupole-Orbitrap mass spectrometry and gas chromatography-mass spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2021, 206, 114385.	2.8	10
72	Ultraâ€performance liquid chromatography of amino acids for the quality assessment of pearl powder. Journal of Separation Science, 2015, 38, 1552-1560.	2.5	9

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73	Identification of prototypes from Ligustri Lucidi Fructus in rat plasma based on a dataâ€dependent acquisition and multicomponent pharmacokinetic study. Biomedical Chromatography, 2020, 34, e4833.	1.7	9
74	Rapid determination of rosmarinic acid and its two bioactive metabolites in the plasma of rats by LCâ€“MS/MS and application to a pharmacokinetics study. Biomedical Chromatography, 2021, 35, e4984.	1.7	9
75	An integrated strategy for comprehensive characterization of metabolites and metabolic profiles of bufadienolides from Venenum Bufonis in rats. Journal of Pharmaceutical Analysis, 2022, 12, 136-144.	5.3	9
76	Characterization of the Components and Pharmacological Effects of Mountain-Cultivated Ginseng and Garden Ginseng Based on the Integrative Pharmacology Strategy. Frontiers in Pharmacology, 2021, 12, 659954.	3.5	9
77	Elucidation of the fragmentation pathways of a complex 3,7- O -glycosyl flavonol by CID, HCD, and PQD on an LTQ-Orbitrap Velos Pro hybrid mass spectrometer. Chinese Journal of Natural Medicines, 2015, 13, 867-872.	1.3	8
78	Untargeted metabolomics analysis to unveil the chemical markers for the differentiation among three Gleditsia sinensis-derived herbal medicines by ultra-high performance liquid chromatography/quadrupole time-of-flight mass spectrometry. Arabian Journal of Chemistry, 2022, 15, 103762.	4.9	7
79	Discrimination and Characterization of the Volatile Organic Compounds in Schizonepetae Spica from Six Regions of China Using HS-GC-IMS and HS-SPME-GC-MS. Molecules, 2022, 27, 4393.	3.8	7
80	The multicomponent characterization of Shuanghe decoction by dimension-enhanced data-independent HDMSE: Focusing on the performance comparison between MSE and HDMSE. Arabian Journal of Chemistry, 2021, 14, 103356.	4.9	6
81	Profiling and identification of chemical components of Shenshao Tablet and its absorbed components in rats by comprehensive HPLC/DAD/ESI-MSn analysis. Chinese Journal of Natural Medicines, 2018, 16, 791-800.	1.3	5
82	Strategy for the multiâ€component characterization and quality evaluation of volatile organic components in Kaixin San by correlating the analysis by headspace gas chromatography/ion mobility spectrometry and headspace gas chromatography/mass spectrometry. Rapid Communications in Mass Spectrometry, 2021, 35, e9174.	1.5	5
83	Systematic Qualitative and Quantitative Analyses of Wenxin Granule via Ultra-High Performance Liquid Chromatography Coupled with Ion Mobility Quadrupole Time-of-Flight Mass Spectrometry and Triple Quadrupoleâ€“Linear Ion Trap Mass Spectrometry. Molecules, 2022, 27, 3647.	3.8	4
84	Development of specific and quantitative methods for the quality control of the polysaccharides from sea-tangle and sargassum. Chinese Journal of Natural Medicines, 2016, 14, 954-960.	1.3	2
85	Comparative identification of the metabolites of dehydrocorydaline from rat plasma, bile, urine and feces by both the targeted and untargeted liquid chromatography/mass spectrometry strategies. Arabian Journal of Chemistry, 2022, 15, 103968.	4.9	1
86	Editorial: Therapeutic Effects of Herbal Medicines: How Can We Best Investigate Bioactive Metabolites?. Frontiers in Pharmacology, 2022, 13, 878789.	3.5	0