

Guo-wang Xu

List of Publications by Year in descending order

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447
papers

22,906
citations

7551

77
h-index

18606

119
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467
all docs

467
docs citations

467
times ranked

25845
citing authors

#	ARTICLE	IF	CITATIONS
1	Gut microbiome and serum metabolome alterations in obesity and after weight-loss intervention. <i>Nature Medicine</i> , 2017, 23, 859-868.	15.2	1,074
2	Mass spectrometry-based metabolomics: a guide for annotation, quantification and best reporting practices. <i>Nature Methods</i> , 2021, 18, 747-756.	9.0	403
3	Metabolic Characterization of Hepatocellular Carcinoma Using Nontargeted Tissue Metabolomics. <i>Cancer Research</i> , 2013, 73, 4992-5002.	0.4	353
4	Altered Lipid Metabolism in Recovered SARS Patients Twelve Years after Infection. <i>Scientific Reports</i> , 2017, 7, 9110.	1.6	347
5	Analyses of gut microbiota and plasma bile acids enable stratification of patients for antidiabetic treatment. <i>Nature Communications</i> , 2017, 8, 1785.	5.8	312
6	A Large-scale, multicenter serum metabolite biomarker identification study for the early detection of hepatocellular carcinoma. <i>Hepatology</i> , 2018, 67, 662-675.	3.6	268
7	Plasma Phospholipid Metabolic Profiling and Biomarkers of Type 2 Diabetes Mellitus Based on High-Performance Liquid Chromatography/Electrospray Mass Spectrometry and Multivariate Statistical Analysis. <i>Analytical Chemistry</i> , 2005, 77, 4108-4116.	3.2	255
8	Comprehensive two-dimensional gas chromatography/time-of-flight mass spectrometry for metabonomics: Biomarker discovery for diabetes mellitus. <i>Analytica Chimica Acta</i> , 2009, 633, 257-262.	2.6	241
9	Preanalytical Aspects and Sample Quality Assessment in Metabolomics Studies of Human Blood. <i>Clinical Chemistry</i> , 2013, 59, 833-845.	1.5	225
10	Relationship of Serum Trimethylamine N-Oxide (TMAO) Levels with early Atherosclerosis in Humans. <i>Scientific Reports</i> , 2016, 6, 26745.	1.6	224
11	A metabonomic study of hepatitis B-induced liver cirrhosis and hepatocellular carcinoma by using RP-LC and HILIC coupled with mass spectrometry. <i>Molecular BioSystems</i> , 2009, 5, 868.	2.9	215
12	Effects of pre-analytical processes on blood samples used in metabolomics studies. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 4879-4892.	1.9	209
13	Diagnosis of liver cancer using HPLC-based metabonomics avoiding false-positive result from hepatitis and hepatocirrhosis diseases. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004, 813, 59-65.	1.2	200
14	Metabonomics study of liver cancer based on ultra performance liquid chromatography coupled to mass spectrometry with HILIC and RPLC separations. <i>Analytica Chimica Acta</i> , 2009, 650, 3-9.	2.6	199
15	Analytical strategies in lipidomics and applications in disease biomarker discovery. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 2836-2846.	1.2	184
16	Gut microbiome-related effects of berberine and probiotics on type 2 diabetes (the PREMOTÉ study). <i>Nature Communications</i> , 2020, 11, 5015.	5.8	184
17	Pseudotargeted Metabolomics Method and Its Application in Serum Biomarker Discovery for Hepatocellular Carcinoma Based on Ultra High-Performance Liquid Chromatography/Triple Quadrupole Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 8326-8333.	3.2	183
18	Metabonomic fingerprints of fasting plasma and spot urine reveal human pre-diabetic metabolic traits. <i>Metabolomics</i> , 2010, 6, 362-374.	1.4	181

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19	Practical Approach for the Identification and Isomer Elucidation of Biomarkers Detected in a Metabonomic Study for the Discovery of Individuals at Risk for Diabetes by Integrating the Chromatographic and Mass Spectrometric Information. <i>Analytical Chemistry</i> , 2008, 80, 1280-1289.	3.2	178
20	Characterization of flavor compounds in Chinese liquor Moutai by comprehensive two-dimensional gas chromatography/time-of-flight mass spectrometry. <i>Analytica Chimica Acta</i> , 2007, 597, 340-348.	2.6	176
21	Simultaneous extraction of metabolome and lipidome with methyl tert-butyl ether from a single small tissue sample for ultra-high performance liquid chromatography/mass spectrometry. <i>Journal of Chromatography A</i> , 2013, 1298, 9-16.	1.8	173
22	LC-MS-based metabonomics analysis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 866, 64-76.	1.2	168
23	RPLC-Ion-Trap-FTMS Method for Lipid Profiling of Plasma: Method Validation and Application to p53 Mutant Mouse Model. <i>Journal of Proteome Research</i> , 2008, 7, 4982-4991.	1.8	161
24	Effect of traditional Chinese medicine berberine on type 2 diabetes based on comprehensive metabonomics. <i>Talanta</i> , 2010, 81, 766-772.	2.9	160
25	High Performance Liquid Chromatography-Mass Spectrometry for Metabonomics: Potential Biomarkers for Acute Deterioration of Liver Function in Chronic Hepatitis B. <i>Journal of Proteome Research</i> , 2006, 5, 554-561.	1.8	153
26	Discovery and Validation of Plasma Biomarkers for Major Depressive Disorder Classification Based on Liquid Chromatography-Mass Spectrometry. <i>Journal of Proteome Research</i> , 2015, 14, 2322-2330.	1.8	152
27	Metabonomics Study of Intestinal Fistulas Based on Ultrapformance Liquid Chromatography Coupled with Q-TOF Mass Spectrometry (UPLC/Q-TOF MS). <i>Journal of Proteome Research</i> , 2006, 5, 2135-2143.	1.8	149
28	Integration of Metabolomics and Transcriptomics Reveals Major Metabolic Pathways and Potential Biomarker Involved in Prostate Cancer. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 154-163.	2.5	149
29	A support vector machine-recursive feature elimination feature selection method based on artificial contrast variables and mutual information. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 910, 149-155.	1.2	148
30	Changes of the plasma metabolome during an oral glucose tolerance test: is there more than glucose to look at?. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009, 296, E384-E393.	1.8	143
31	Development of a High Coverage Pseudotargeted Lipidomics Method Based on Ultra-High Performance Liquid Chromatography-Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 7608-7616.	3.2	138
32	Stress-induced epinephrine enhances lactate dehydrogenase A and promotes breast cancer stem-like cells. <i>Journal of Clinical Investigation</i> , 2019, 129, 1030-1046.	3.9	138
33	Serum metabolomics reveals the deregulation of fatty acids metabolism in hepatocellular carcinoma and chronic liver diseases. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 203-213.	1.9	127
34	Development of a plasma pseudotargeted metabolomics method based on ultra-high-performance liquid chromatography-mass spectrometry. <i>Nature Protocols</i> , 2020, 15, 2519-2537.	5.5	127
35	Metabolomics Study of Stepwise Hepatocarcinogenesis From the Model Rats to Patients: Potential Biomarkers Effective for Small Hepatocellular Carcinoma Diagnosis. <i>Molecular and Cellular Proteomics</i> , 2012, 11, M111.010694.	2.5	125
36	Quality and safety of Chinese herbal medicines guided by a systems biology perspective. <i>Journal of Ethnopharmacology</i> , 2009, 126, 31-41.	2.0	123

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37	Multiple Reaction Monitoring-Ion Pair Finder: A Systematic Approach To Transform Nontargeted Mode to Pseudotargeted Mode for Metabolomics Study Based on Liquid Chromatography- ⁺ Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 5050-5055.	3.2	119
38	Determination of sulfur-containing compounds in diesel oils by comprehensive two-dimensional gas chromatography with a sulfur chemiluminescence detector. <i>Journal of Chromatography A</i> , 2003, 1019, 101-109.	1.8	118
39	Medium Chain Acylcarnitines Dominate the Metabolite Pattern in Humans under Moderate Intensity Exercise and Support Lipid Oxidation. <i>PLoS ONE</i> , 2010, 5, e11519.	1.1	118
40	Docosahexaenoic acid changes lipid composition and interleukin-2 receptor signaling in membrane rafts. <i>Journal of Lipid Research</i> , 2005, 46, 1904-1913.	2.0	117
41	Metabolomics Study of Hepatocellular Carcinoma: Discovery and Validation of Serum Potential Biomarkers by Using Capillary Electrophoresis- ⁺ Mass Spectrometry. <i>Journal of Proteome Research</i> , 2014, 13, 3420-3431.	1.8	113
42	Analysis of Cigarette Smoke Condensates by Comprehensive Two-Dimensional Gas Chromatography/Time-of-Flight Mass Spectrometry I Acidic Fraction. <i>Analytical Chemistry</i> , 2003, 75, 4441-4451.	3.2	108
43	Interferon- β and tumor necrosis factor- α disrupt epithelial barrier function by altering lipid composition in membrane microdomains of tight junction. <i>Clinical Immunology</i> , 2008, 126, 67-80.	1.4	108
44	Exploration of the serum metabolite signature in patients with rheumatoid arthritis using gas chromatography- ⁺ mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 127, 60-67.	1.4	107
45	Development of Urinary Pseudotargeted LC-MS-Based Metabolomics Method and Its Application in Hepatocellular Carcinoma Biomarker Discovery. <i>Journal of Proteome Research</i> , 2015, 14, 906-916.	1.8	103
46	Integration of lipidomics and transcriptomics unravels aberrant lipid metabolism and defines cholesteryl oleate as potential biomarker of prostate cancer. <i>Scientific Reports</i> , 2016, 6, 20984.	1.6	103
47	Discrimination of Type 2 diabetic patients from healthy controls by using metabonomics method based on their serum fatty acid profiles. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004, 813, 53-58.	1.2	102
48	Comprehensive and Highly Sensitive Urinary Steroid Hormone Profiling Method Based on Stable Isotope-Labeling Liquid Chromatography- ⁺ Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 10245-10251.	3.2	102
49	Circulating Lysophosphatidylcholines Are Markers of a Metabolically Benign Nonalcoholic Fatty Liver. <i>Diabetes Care</i> , 2013, 36, 2331-2338.	4.3	100
50	Next- ⁺ generation transgenic cotton: pyramiding RNAi and Bt counters insect resistance. <i>Plant Biotechnology Journal</i> , 2017, 15, 1204-1213.	4.1	99
51	Effect of a traditional Chinese medicine preparation Xindi soft capsule on rat model of acute blood stasis: A urinary metabonomics study based on liquid chromatography- ⁺ mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 873, 151-158.	1.2	98
52	Current state-of-the-art of nontargeted metabolomics based on liquid chromatography- ⁺ mass spectrometry with special emphasis in clinical applications. <i>Journal of Chromatography A</i> , 2014, 1374, 1-13.	1.8	98
53	Eicosapentaenoic acid modifies lipid composition in caveolae and induces translocation of endothelial nitric oxide synthase. <i>Biochimie</i> , 2007, 89, 169-177.	1.3	96
54	Recent advances in development and characterization of stationary phases for hydrophilic interaction chromatography. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 81, 23-33.	5.8	96

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55	Metabonomics study of atherosclerosis rats by ultra fast liquid chromatography coupled with ion trap-time of flight mass spectrometry. <i>Talanta</i> , 2009, 79, 836-844.	2.9	95
56	Plasma lipidomics reveals potential lipid markers of major depressive disorder. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 6497-6507.	1.9	95
57	Global Metabolic Profiling Identifies a Pivotal Role of Proline and Hydroxyproline Metabolism in Supporting Hypoxic Response in Hepatocellular Carcinoma. <i>Clinical Cancer Research</i> , 2018, 24, 474-485.	3.2	94
58	Comprehensive investigation of tobacco leaves during natural early senescence via multi-platform metabolomics analyses. <i>Scientific Reports</i> , 2016, 6, 37976.	1.6	93
59	Recent methodology in the phytochemical analysis of ginseng. <i>Phytochemical Analysis</i> , 2008, 19, 2-16.	1.2	92
60	Metabolic fingerprinting investigation of <i>Artemisia annua</i> L. in different stages of development by gas chromatography and gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2008, 1186, 412-419.	1.8	92
61	A comparative study of volatile components in green, oolong and black teas by using comprehensive two-dimensional gas chromatography-time-of-flight mass spectrometry and multivariate data analysis. <i>Journal of Chromatography A</i> , 2013, 1313, 245-252.	1.8	91
62	Comprehensive Strategy to Construct In-House Database for Accurate and Batch Identification of Small Molecular Metabolites. <i>Analytical Chemistry</i> , 2018, 90, 7635-7643.	3.2	90
63	Serum 27-nor-5 β -Cholestane-3,7,12,24,25 Pentol Glucuronide Discovered by Metabolomics as Potential Diagnostic Biomarker for Epithelium Ovarian Cancer. <i>Journal of Proteome Research</i> , 2011, 10, 2625-2632.	1.8	89
64	Metabolomic analysis reveals that carnitines are key regulatory metabolites in phase transition of the locusts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 3259-3263.	3.3	89
65	Facile Synthesis of Boronate-Decorated Polyethyleneimine-Grafted Hybrid Magnetic Nanoparticles for the Highly Selective Enrichment of Modified Nucleosides and Ribosylated Metabolites. <i>Analytical Chemistry</i> , 2013, 85, 11585-11592.	3.2	89
66	Analysis of sulfur-containing compounds in crude oils by comprehensive two-dimensional gas chromatography with sulfur chemiluminescence detection. <i>Journal of Separation Science</i> , 2004, 27, 691-698.	1.3	88
67	n-3 polyunsaturated fatty acids prevent disruption of epithelial barrier function induced by proinflammatory cytokines. <i>Molecular Immunology</i> , 2008, 45, 1356-1365.	1.0	88
68	Effects of exogenous methyl jasmonate on artemisinin biosynthesis and secondary metabolites in <i>Artemisia annua</i> L.. <i>Industrial Crops and Products</i> , 2010, 31, 214-218.	2.5	88
69	Metabolic profiling of transgenic rice with <i>cryIAc</i> and <i>sck</i> genes: An evaluation of unintended effects at metabolic level by using GC-FID and GC-MS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 725-732.	1.2	87
70	Exercise-Induced Secretion of FGF21 and Follistatin Are Blocked by Pancreatic Clamp and Impaired in Type 2 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016, 101, 2816-2825.	1.8	86
71	Comprehensive metabolic profiling of Parkinson's disease by liquid chromatography-mass spectrometry. <i>Molecular Neurodegeneration</i> , 2021, 16, 4.	4.4	86
72	Systems Biology Guided by Chinese Medicine Reveals New Markers for Sub-Typing Rheumatoid Arthritis Patients. <i>Journal of Clinical Rheumatology</i> , 2009, 15, 330-337.	0.5	85

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73	Triptolide suppresses IDH1-mutated malignancy via Nrf2-driven glutathione metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9964-9972.	3.3	85
74	Metabolic phenotypes and the gut microbiota in response to dietary resistant starch type 2 in normal-weight subjects: a randomized crossover trial. Scientific Reports, 2019, 9, 4736.	1.6	84
75	Development and evaluation of new imidazolium-based zwitterionic stationary phases for hydrophilic interaction chromatography. Journal of Chromatography A, 2013, 1286, 137-145.	1.8	83
76	Novel, fully automatic hydrophilic interaction/reversed-phase column-switching high-performance liquid chromatographic system for the complementary analysis of polar and apolar compounds in complex samples. Journal of Chromatography A, 2008, 1204, 28-34.	1.8	82
77	A novel approach to transforming a non-targeted metabolic profiling method to a pseudo-targeted method using the retention time locking gas chromatography/mass spectrometry-selected ions monitoring. Journal of Chromatography A, 2012, 1255, 228-236.	1.8	82
78	Docosahexaenoic acid affects endothelial nitric oxide synthase in caveolae. Archives of Biochemistry and Biophysics, 2007, 466, 250-259.	1.4	81
79	Mass-spectrometry-based metabolomics analysis for foodomics. TrAC - Trends in Analytical Chemistry, 2013, 52, 36-46.	5.8	81
80	Clinical significance and prognostic value of urinary nucleosides in breast cancer patients. Clinical Biochemistry, 2005, 38, 24-30.	0.8	80
81	Metabolomics and traditional Chinese medicine. TrAC - Trends in Analytical Chemistry, 2014, 61, 207-214.	5.8	80
82	Retention Time Prediction Improves Identification in Nontargeted Lipidomics Approaches. Analytical Chemistry, 2015, 87, 7698-7704.	3.2	80
83	Strategy for metabonomics research based on high-performance liquid chromatography and liquid chromatography coupled with tandem mass spectrometry. Journal of Chromatography A, 2005, 1084, 214-221.	1.8	79
84	Study of the phase I and phase II metabolism of nephrotoxin aristolochic acid by liquid chromatography/tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2006, 20, 1755-1760.	0.7	79
85	Urinary metabonomic study of lung cancer by a fully automatic hyphenated hydrophilic interaction/RPLC-MS system. Journal of Separation Science, 2010, 33, 1495-1503.	1.3	79
86	Type 2 diabetes alters metabolic and transcriptional signatures of glucose and amino acid metabolism during exercise and recovery. Diabetologia, 2015, 58, 1845-1854.	2.9	79
87	Serum Metabolomics Study of Polycystic Ovary Syndrome Based on Liquid Chromatography-MS. Journal of Proteome Research, 2014, 13, 1101-1111.	1.8	78
88	A data preprocessing strategy for metabolomics to reduce the mask effect in data analysis. Frontiers in Molecular Biosciences, 2015, 2, 4.	1.6	78
89	Plasma metabonomics study of rheumatoid arthritis and its Chinese medicine subtypes by using liquid chromatography and gas chromatography coupled with mass spectrometry. Molecular BioSystems, 2012, 8, 1535.	2.9	77
90	Serum metabonomics study of chronic renal failure by ultra performance liquid chromatography coupled with Q-TOF mass spectrometry. Metabolomics, 2008, 4, 183-189.	1.4	76

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91	Integrated GC-MS and LC-MS plasma metabolomics analysis of ankylosing spondylitis. <i>Analyst</i> , The, 2008, 133, 1214.	1.7	76
92	Genetic, proteomic and metabolic analysis of the regulation of energy storage in rice seedlings in response to drought. <i>Proteomics</i> , 2011, 11, 4122-4138.	1.3	76
93	Noninvasive detection of colorectal cancer by analysis of exhaled breath. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 4757-4763.	1.9	76
94	Recent advances in analytical strategies for mass spectrometry-based lipidomics. <i>Analytica Chimica Acta</i> , 2020, 1137, 156-169.	2.6	76
95	Metabolomics Study on the Effects of the Ginsenoside Rg3 in a β -Cyclodextrin-Based Formulation on Tumor-Bearing Rats by a Fully Automatic Hydrophilic Interaction/Reversed-Phase Column-Switching HPLC-ESI-MS Approach. <i>Analytical Chemistry</i> , 2008, 80, 4680-4688.	3.2	74
96	Study of Induction Chemotherapy Efficacy in Oral Squamous Cell Carcinoma Using Pseudotargeted Metabolomics. <i>Journal of Proteome Research</i> , 2014, 13, 1994-2004.	1.8	74
97	A metabolomics study delineating geographical location-associated primary metabolic changes in the leaves of growing tobacco plants by GC-MS and CE-MS. <i>Scientific Reports</i> , 2015, 5, 16346.	1.6	74
98	Terpenoid metabolic profiling analysis of transgenic <i>Artemisia annua</i> L. by comprehensive two-dimensional gas chromatography time-of-flight mass spectrometry. <i>Metabolomics</i> , 2009, 5, 497-506.	1.4	73
99	Evaluation of ionic liquid stationary phases for one dimensional gas chromatography-mass spectrometry and comprehensive two dimensional gas chromatographic analyses of fatty acids in marine biota. <i>Journal of Chromatography A</i> , 2011, 1218, 3056-3063.	1.8	73
100	A novel surface-confined glucaminium-based ionic liquid stationary phase for hydrophilic interaction/anion-exchange mixed-mode chromatography. <i>Journal of Chromatography A</i> , 2014, 1360, 240-247.	1.8	73
101	Serum Metabolic Profiling Study of Hepatocellular Carcinoma Infected with Hepatitis B or Hepatitis C Virus by Using Liquid Chromatography-Mass Spectrometry. <i>Journal of Proteome Research</i> , 2012, 11, 5433-5442.	1.8	72
102	Nanoparticle Conjugation of Ginsenoside Rg3 Inhibits Hepatocellular Carcinoma Development and Metastasis. <i>Small</i> , 2020, 16, e1905233.	5.2	72
103	Analysis of catecholamines and their metabolites in adrenal gland by liquid chromatography tandem mass spectrometry. <i>Analytica Chimica Acta</i> , 2008, 609, 192-200.	2.6	70
104	Alkaloid profiling of the Chinese herbal medicine Fuzi by combination of matrix-assisted laser desorption ionization mass spectrometry with liquid chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2009, 1216, 2169-2178.	1.8	70
105	Serum metabolic profiling study of lung cancer using ultra high performance liquid chromatography/quadrupole time-of-flight mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014, 966, 147-153.	1.2	70
106	Recent development of ionic liquid stationary phases for liquid chromatography. <i>Journal of Chromatography A</i> , 2015, 1420, 1-15.	1.8	70
107	Current and future perspectives of functional metabolomics in disease studies-A review. <i>Analytica Chimica Acta</i> , 2018, 1037, 41-54.	2.6	70
108	Normal and modified urinary nucleosides represent novel biomarkers for colorectal cancer diagnosis and surgery monitoring. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2005, 20, 1913-1919.	1.4	69

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109	Study of traditional Chinese medicine volatile oils from different geographical origins by comprehensive two-dimensional gas chromatography–time-of-flight mass spectrometry (GC–TOFMS) in combination with multivariate analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007, 43, 1721-1727.	1.4	69
110	Analysis of <i>Artemisia annua</i> L. volatile oil by comprehensive two-dimensional gas chromatography time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2007, 1150, 50-53.	1.8	68
111	Development of a comprehensive two-dimensional hydrophilic interaction chromatography/quadrupole time-of-flight mass spectrometry system and its application in separation and identification of saponins from <i>Quillaja saponaria</i> . <i>Journal of Chromatography A</i> , 2008, 1181, 51-59.	1.8	68
112	Application of Fuzzy c-Means Clustering in Data Analysis of Metabolomics. <i>Analytical Chemistry</i> , 2009, 81, 4468-4475.	3.2	68
113	Systems Biology-Based Diagnostic Principles as Pillars of the Bridge between Chinese and Western Medicine. <i>Planta Medica</i> , 2010, 76, 2036-2047.	0.7	68
114	Characterization of Rheumatoid Arthritis Subtypes Using Symptom Profiles, Clinical Chemistry and Metabolomics Measurements. <i>PLoS ONE</i> , 2012, 7, e44331.	1.1	68
115	A GC-based metabolomics investigation of type 2 diabetes by organic acids metabolic profile. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 850, 236-240.	1.2	67
116	Nontargeted screening of chemical contaminants and illegal additives in food based on liquid chromatography–high resolution mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 96, 89-98.	5.8	67
117	Exhaled volatile organic compounds as lung cancer biomarkers during one-lung ventilation. <i>Scientific Reports</i> , 2014, 4, 7312.	1.6	66
118	Artificial neural network classification based on high-performance liquid chromatography of urinary and serum nucleosides for the clinical diagnosis of cancer. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2002, 780, 27-33.	1.2	64
119	Application of comprehensive two-dimensional gas chromatography–time-of-flight mass spectrometry in the analysis of volatile oil of traditional Chinese medicines. <i>Journal of Chromatography A</i> , 2004, 1034, 199-205.	1.8	64
120	Simultaneous separation of hydrophilic and hydrophobic compounds by using an online HILIC–RPLC system with two detectors. <i>Journal of Separation Science</i> , 2008, 31, 1564-1572.	1.3	64
121	Metabolic profiling based on LC/MS to evaluate unintended effects of transgenic rice with <i>cry1Ac</i> and <i>sck</i> genes. <i>Plant Molecular Biology</i> , 2012, 78, 477-487.	2.0	64
122	Systems toxicology study of doxorubicin on rats using ultra performance liquid chromatography coupled with mass spectrometry based metabolomics. <i>Metabolomics</i> , 2009, 5, 407-418.	1.4	63
123	Mass-spectrometry-based microbial metabolomics: recent developments and applications. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 669-680.	1.9	63
124	Analysis of Urinary Metabolic Signatures of Early Hepatocellular Carcinoma Recurrence after Surgical Removal Using Gas Chromatography–Mass Spectrometry. <i>Journal of Proteome Research</i> , 2012, 11, 4361-4372.	1.8	62
125	A method for handling metabolomics data from liquid chromatography/mass spectrometry: combinational use of support vector machine recursive feature elimination, genetic algorithm and random forest for feature selection. <i>Metabolomics</i> , 2011, 7, 549-558.	1.4	61
126	Effect of Bisphenol A on Rat Metabolic Profiling Studied by Using Capillary Electrophoresis Time-of-Flight Mass Spectrometry. <i>Environmental Science & Technology</i> , 2013, 47, 7457-7465.	4.6	61

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127	Blood volatile compounds as biomarkers for colorectal cancer. <i>Cancer Biology and Therapy</i> , 2014, 15, 200-206.	1.5	61
128	Oral secretions from <i>Mythimna separata</i> insects specifically induce defence responses in maize as revealed by high-dimensional biological data. <i>Plant, Cell and Environment</i> , 2016, 39, 1749-1766.	2.8	61
129	Urinary nucleosides as biological markers for patients with colorectal cancer. <i>World Journal of Gastroenterology</i> , 2005, 11, 3871.	1.4	60
130	Serum Metabolomics Study and Eicosanoid Analysis of Childhood Atopic Dermatitis Based on Liquid Chromatography-Mass Spectrometry. <i>Journal of Proteome Research</i> , 2014, 13, 5715-5723.	1.8	60
131	Determination of radix ginseng volatile oils at different ages by comprehensive two-dimensional gas chromatography/time-of-flight mass spectrometry. <i>Journal of Separation Science</i> , 2008, 31, 3451-3457.	1.3	58
132	Insulin Sensitivity Is Reflected by Characteristic Metabolic Fingerprints - A Fourier Transform Mass Spectrometric Non-Targeted Metabolomics Approach. <i>PLoS ONE</i> , 2010, 5, e13317.	1.1	58
133	Comprehensive hydrophilic interaction and ion-pair reversed-phase liquid chromatography for analysis of di- to deca-oligonucleotides. <i>Journal of Chromatography A</i> , 2012, 1255, 237-243.	1.8	58
134	A novel stop-flow two-dimensional liquid chromatography-mass spectrometry method for lipid analysis. <i>Journal of Chromatography A</i> , 2013, 1321, 65-72.	1.8	58
135	Metabonomics study of urine and plasma in depression and excess fatigue rats by ultra fast liquid chromatography coupled with ion trap-time of flight mass spectrometry. <i>Molecular BioSystems</i> , 2010, 6, 852.	2.9	57
136	Volatile Organic Metabolites Identify Patients with Breast Cancer, Cyclomastopathy and Mammary Gland Fibroma. <i>Scientific Reports</i> , 2014, 4, 5383.	1.6	57
137	Metabolomics and transcriptomics profiles reveal the dysregulation of the tricarboxylic acid cycle and related mechanisms in prostate cancer. <i>International Journal of Cancer</i> , 2018, 143, 396-407.	2.3	57
138	Bioconversion of red ginseng saponins in the gastro-intestinal tract in vitro model studied by high-performance liquid chromatography-high resolution Fourier transform ion cyclotron resonance mass spectrometry. <i>Journal of Chromatography A</i> , 2009, 1216, 2195-2203.	1.8	56
139	Application of plasma lipidomics in studying the response of patients with essential hypertension to antihypertensive drug therapy. <i>Molecular BioSystems</i> , 2011, 7, 3271.	2.9	56
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