Guo-wang Xu

List of Publications by Year
in descending order

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447 papers	22,906 citations	7568 77 h-index	18647 119 g-index
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. Nature Medicine, 2017, 23, 859-868.	30.7	1,074
2	Mass spectrometry-based metabolomics: a guide for annotation, quantification and best reporting practices. Nature Methods, 2021, 18, 747-756.	19.0	403
3	Metabolic Characterization of Hepatocellular Carcinoma Using Nontargeted Tissue Metabolomics. Cancer Research, 2013, 73, 4992-5002.	0.9	353
4	Altered Lipid Metabolism in Recovered SARS Patients Twelve Years after Infection. Scientific Reports, 2017, 7, 9110.	3.3	347
5	Analyses of gut microbiota and plasma bile acids enable stratification of patients for antidiabetic treatment. Nature Communications, 2017, 8, 1785.	12.8	312
6	A Largeâ€scale, multicenter serum metabolite biomarker identification study for the early detection of hepatocellular carcinoma. Hepatology, 2018, 67, 662-675.	7.3	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. Analytical Chemistry, 2005, 77, 4108-4116.	6.5	255
8	Comprehensive two-dimensional gas chromatography/time-of-flight mass spectrometry for metabonomics: Biomarker discovery for diabetes mellitus. Analytica Chimica Acta, 2009, 633, 257-262.	5.4	241
9	Preanalytical Aspects and Sample Quality Assessment in Metabolomics Studies of Human Blood. Clinical Chemistry, 2013, 59, 833-845.	3.2	225
10	Relationship of Serum Trimethylamine N-Oxide (TMAO) Levels with early Atherosclerosis in Humans. Scientific Reports, 2016, 6, 26745.	3.3	224
11	A metabonomic study of hepatitis B-induced liver cirrhosis and hepatocellular carcinoma by using RP-LC and HILIC coupled with mass spectrometry. Molecular BioSystems, 2009, 5, 868.	2.9	215
12	Effects of pre-analytical processes on blood samples used in metabolomics studies. Analytical and Bioanalytical Chemistry, 2015, 407, 4879-4892.	3.7	209
13	Diagnosis of liver cancer using HPLC-based metabonomics avoiding false-positive result from hepatitis and hepatocirrhosis diseases. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2004, 813, 59-65.	2.3	200
14	Metabonomics study of liver cancer based on ultra performance liquid chromatography coupled to mass spectrometry with HILIC and RPLC separations. Analytica Chimica Acta, 2009, 650, 3-9.	5.4	199
15	Analytical strategies in lipidomics and applications in disease biomarker discovery. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 2836-2846.	2.3	184
16	Gut microbiome-related effects of berberine and probiotics on type 2 diabetes (the PREMOTE study). Nature Communications, 2020, 11, 5015.	12.8	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. Analytical Chemistry, 2013, 85, 8326-8333.	6.5	183
18	Metabonomic fingerprints of fasting plasma and spot urine reveal human pre-diabetic metabolic traits. Metabolomics, 2010, 6, 362-374.	3.0	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. Analytical Chemistry, 2008, 80, 1280-1289.	6.5	178
20	Characterization of flavor compounds in Chinese liquor Moutai by comprehensive two-dimensional gas chromatography/time-of-flight mass spectrometry. Analytica Chimica Acta, 2007, 597, 340-348.	5.4	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. Journal of Chromatography A, 2013, 1298, 9-16.	3.7	173
22	LCâ€“MS-based metabonomics analysis. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 866, 64-76.	2.3	168
23	RPLC-Ion-Trap-FTMS Method for Lipid Profiling of Plasma: Method Validation and Application to p53 Mutant Mouse Model. Journal of Proteome Research, 2008, 7, 4982-4991.	3.7	161
24	Effect of traditional Chinese medicine berberine on type 2 diabetes based on comprehensive metabonomics. Talanta, 2010, 81, 766-772.	5.5	160
25	High Performance Liquid Chromatographyâ€”Mass Spectrometry for Metabonomics:Â Potential Biomarkers for Acute Deterioration of Liver Function in Chronic Hepatitis B. Journal of Proteome Research, 2006, 5, 554-561.	3.7	153
26	Discovery and Validation of Plasma Biomarkers for Major Depressive Disorder Classification Based on Liquid Chromatographyâ€“Mass Spectrometry. Journal of Proteome Research, 2015, 14, 2322-2330.	3.7	152
27	Metabonomics Study of Intestinal Fistulas Based on Ultraperformance Liquid Chromatography Coupled with Q-TOF Mass Spectrometry (UPLC/Q-TOF MS). Journal of Proteome Research, 2006, 5, 2135-2143.	3.7	149
28	Integration of Metabolomics and Transcriptomics Reveals Major Metabolic Pathways and Potential Biomarker Involved in Prostate Cancer. Molecular and Cellular Proteomics, 2016, 15, 154-163.	3.8	149
29	A support vector machine-recursive feature elimination feature selection method based on artificial contrast variables and mutual information. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2012, 910, 149-155.	2.3	148
30	Changes of the plasma metabolome during an oral glucose tolerance test: is there more than glucose to look at?. American Journal of Physiology - Endocrinology and Metabolism, 2009, 296, E384-E393.	3.5	143
31	Development of a High Coverage Pseudotargeted Lipidomics Method Based on Ultra-High Performance Liquid Chromatographyâ€“Mass Spectrometry. Analytical Chemistry, 2018, 90, 7608-7616.	6.5	138
32	Stress-induced epinephrine enhances lactate dehydrogenase A and promotes breast cancer stem-like cells. Journal of Clinical Investigation, 2019, 129, 1030-1046.	8.2	138
33	Serum metabolomics reveals the deregulation of fatty acids metabolism in hepatocellular carcinoma and chronic liver diseases. Analytical and Bioanalytical Chemistry, 2012, 403, 203-213.	3.7	127
34	Development of a plasma pseudotargeted metabolomics method based on ultra-high-performance liquid chromatographyâ€“mass spectrometry. Nature Protocols, 2020, 15, 2519-2537.	12.0	127
35	Metabolomics Study of Stepwise Hepatocarcinogenesis From the Model Rats to Patients: Potential Biomarkers Effective for Small Hepatocellular Carcinoma Diagnosis. Molecular and Cellular Proteomics, 2012, 11, M111.010694.	3.8	125
36	Quality and safety of Chinese herbal medicines guided by a systems biology perspective. Journal of Ethnopharmacology, 2009, 126, 31-41.	4.1	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 Chromatographyâ€“Mass Spectrometry. Analytical Chemistry, 2015, 87, 5050-5055.	6.5	119
38	Determination of sulfur-containing compounds in diesel oils by comprehensive two-dimensional gas chromatography with a sulfur chemiluminescence detector. Journal of Chromatography A, 2003, 1019, 101-109.	3.7	118
39	Medium Chain Acylcarnitines Dominate the Metabolite Pattern in Humans under Moderate Intensity Exercise and Support Lipid Oxidation. PLoS ONE, 2010, 5, e11519.	2.5	118
40	Docosahexaenoic acid changes lipid composition and interleukin-2 receptor signaling in membrane rafts. Journal of Lipid Research, 2005, 46, 1904-1913.	4.2	117
41	Metabolomics Study of Hepatocellular Carcinoma: Discovery and Validation of Serum Potential Biomarkers by Using Capillary Electrophoresisâ€“Mass Spectrometry. Journal of Proteome Research, 2014, 13, 3420-3431.	3.7	113
42	Analysis of Cigarette Smoke Condensates by Comprehensive Two-Dimensional Gas Chromatography/Time-of-Flight Mass Spectrometry I Acidic Fraction. Analytical Chemistry, 2003, 75, 4441-4451.	6.5	108
43	Interferon-Î³ and tumor necrosis factor-Î± disrupt epithelial barrier function by altering lipid composition in membrane microdomains of tight junction. Clinical Immunology, 2008, 126, 67-80.	3.2	108
44	Exploration of the serum metabolite signature in patients with rheumatoid arthritis using gas chromatographyâ€“mass spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2016, 127, 60-67.	2.8	107
45	Development of Urinary Pseudotargeted LC-MS-Based Metabolomics Method and Its Application in Hepatocellular Carcinoma Biomarker Discovery. Journal of Proteome Research, 2015, 14, 906-916.	3.7	103
46	Integration of lipidomics and transcriptomics unravels aberrant lipid metabolism and defines cholesteryl oleate as potential biomarker of prostate cancer. Scientific Reports, 2016, 6, 20984.	3.3	103
47	Discrimination of Type 2 diabetic patients from healthy controls by using metabonomics method based on their serum fatty acid profiles. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2004, 813, 53-58.	2.3	102
48	Comprehensive and Highly Sensitive Urinary Steroid Hormone Profiling Method Based on Stable Isotope-Labeling Liquid Chromatographyâ€“Mass Spectrometry. Analytical Chemistry, 2012, 84, 10245-10251.	6.5	102
49	Circulating Lysophosphatidylcholines Are Markers of a Metabolically Benign Nonalcoholic Fatty Liver. Diabetes Care, 2013, 36, 2331-2338.	8.6	100
50	Nextâ€generation transgenic cotton: pyramiding RNAi and Bt counters insect resistance. Plant Biotechnology Journal, 2017, 15, 1204-1213.	8.3	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 chromatographyâ€“mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 873, 151-158.	2.3	98
52	Current state-of-the-art of nontargeted metabolomics based on liquid chromatographyâ€“mass spectrometry with special emphasis in clinical applications. Journal of Chromatography A, 2014, 1374, 1-13.	3.7	98
53	Eicosapentaenoic acid modifies lipid composition in caveolae and induces translocation of endothelial nitric oxide synthase. Biochimie, 2007, 89, 169-177.	2.6	96
54	Recent advances in development and characterization of stationary phases for hydrophilic interaction chromatography. TrAC - Trends in Analytical Chemistry, 2016, 81, 23-33.	11.4	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. Talanta, 2009, 79, 836-844.	5.5	95
56	Plasma lipidomics reveals potential lipid markers of major depressive disorder. Analytical and Bioanalytical Chemistry, 2016, 408, 6497-6507.	3.7	95
57	Global Metabolic Profiling Identifies a Pivotal Role of Proline and Hydroxyproline Metabolism in Supporting Hypoxic Response in Hepatocellular Carcinoma. Clinical Cancer Research, 2018, 24, 474-485.	7.0	94
58	Comprehensive investigation of tobacco leaves during natural early senescence via multi-platform metabolomics analyses. Scientific Reports, 2016, 6, 37976.	3.3	93
59	Recent methodology in the phytochemical analysis of ginseng. Phytochemical Analysis, 2008, 19, 2-16.	2.4	92
60	Metabolic fingerprinting investigation of Artemisia annua L. in different stages of development by gas chromatography and gas chromatographyâ€“mass spectrometry. Journal of Chromatography A, 2008, 1186, 412-419.	3.7	92
61	A comparative study of volatile components in green, oolong and black teas by using comprehensive two-dimensional gas chromatographyâ€“time-of-flight mass spectrometry and multivariate data analysis. Journal of Chromatography A, 2013, 1313, 245-252.	3.7	91
62	Comprehensive Strategy to Construct In-House Database for Accurate and Batch Identification of Small Molecular Metabolites. Analytical Chemistry, 2018, 90, 7635-7643.	6.5	90
63	Serum 27-nor-5Î²-Cholestane-3,7,12,24,25 Pentol Glucuronide Discovered by Metabolomics as Potential Diagnostic Biomarker for Epithelium Ovarian Cancer. Journal of Proteome Research, 2011, 10, 2625-2632.	3.7	89
64	Metabolomic analysis reveals that carnitines are key regulatory metabolites in phase transition of the locusts. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 3259-3263.	7.1	89
65	Facile Synthesis of Boronate-Decorated Polyethyleneimine-Grafted Hybrid Magnetic Nanoparticles for the Highly Selective Enrichment of Modified Nucleosides and Ribosylated Metabolites. Analytical Chemistry, 2013, 85, 11585-11592.	6.5	89
66	Analysis of sulfur-containing compounds in crude oils by comprehensive two-dimensional gas chromatography with sulfur chemiluminescence detection. Journal of Separation Science, 2004, 27, 691-698.	2.5	88
67	n-3 polyunsaturated fatty acids prevent disruption of epithelial barrier function induced by proinflammatory cytokines. Molecular Immunology, 2008, 45, 1356-1365.	2.2	88
68	Effects of exogenous methyl jasmonate on artemisinin biosynthesis and secondary metabolites in Artemisia annua L.. Industrial Crops and Products, 2010, 31, 214-218.	5.2	88
69	Metabolic profiling of transgenic rice with cryIAc and sck genes: An evaluation of unintended effects at metabolic level by using GC-FID and GCâ€“MS. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 725-732.	2.3	87
70	Exercise-Induced Secretion of FGF21 and Follistatin Are Blocked by Pancreatic Clamp and Impaired in Type 2 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 2816-2825.	3.6	86
71	Comprehensive metabolic profiling of Parkinsonâ€™s disease by liquid chromatography-mass spectrometry. Molecular Neurodegeneration, 2021, 16, 4.	10.8	86
72	Systems Biology Guided by Chinese Medicine Reveals New Markers for Sub-Typing Rheumatoid Arthritis Patients. Journal of Clinical Rheumatology, 2009, 15, 330-337.	0.9	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.	7.1	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.	3.3	84
75	Development and evaluation of new imidazolium-based zwitterionic stationary phases for hydrophilic interaction chromatography. Journal of Chromatography A, 2013, 1286, 137-145.	3.7	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.	3.7	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.	3.7	82
78	Docosahexaenoic acid affects endothelial nitric oxide synthase in caveolae. Archives of Biochemistry and Biophysics, 2007, 466, 250-259.	3.0	81
79	Mass-spectrometry-based metabolomics analysis for foodomics. TrAC - Trends in Analytical Chemistry, 2013, 52, 36-46.	11.4	81
80	Clinical significance and prognostic value of urinary nucleosides in breast cancer patients. Clinical Biochemistry, 2005, 38, 24-30.	1.9	80
81	Metabolomics and traditional Chinese medicine. TrAC - Trends in Analytical Chemistry, 2014, 61, 207-214.	11.4	80
82	Retention Time Prediction Improves Identification in Nontargeted Lipidomics Approaches. Analytical Chemistry, 2015, 87, 7698-7704.	6.5	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.	3.7	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.	1.5	79
85	Urinary metabonomic study of lung cancer by a fully automatic hyphenated hydrophilic interaction/RPLCâ€MS system. Journal of Separation Science, 2010, 33, 1495-1503.	2.5	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.	6.3	79
87	Serum Metabolomics Study of Polycystic Ovary Syndrome Based on Liquid Chromatographyâ€“Mass Spectrometry. Journal of Proteome Research, 2014, 13, 1101-1111.	3.7	78
88	A data preprocessing strategy for metabolomics to reduce the mask effect in data analysis. Frontiers in Molecular Biosciences, 2015, 2, 4.	3.5	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.	3.0	76

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91	Integrated GCâ€“MS and LCâ€“MS plasma metabonomics analysis of ankylosing spondylitis. Analyst, The, 2008, 133, 1214.	3.5	76
92	Genetic, proteomic and metabolic analysis of the regulation of energy storage in rice seedlings in response to drought. Proteomics, 2011, 11, 4122-4138.	2.2	76
93	Noninvasive detection of colorectal cancer by analysis of exhaled breath. Analytical and Bioanalytical Chemistry, 2014, 406, 4757-4763.	3.7	76
94	Recent advances in analytical strategies for mass spectrometry-based lipidomics. Analytica Chimica Acta, 2020, 1137, 156-169.	5.4	76
95	Metabonomics Study on the Effects of the Ginsenoside Rg3 in a Î²-Cyclodextrin-Based Formulation on Tumor-Bearing Rats by a Fully Automatic Hydrophilic Interaction/Reversed-Phase Column-Switching HPLCâ†’ESI-MS Approach. Analytical Chemistry, 2008, 80, 4680-4688.	6.5	74
96	Study of Induction Chemotherapy Efficacy in Oral Squamous Cell Carcinoma Using Pseudotargeted Metabolomics. Journal of Proteome Research, 2014, 13, 1994-2004.	3.7	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. Scientific Reports, 2015, 5, 16346.	3.3	74
98	Terpenoid metabolic profiling analysis of transgenic Artemisia annua L. by comprehensive two-dimensional gas chromatography time-of-flight mass spectrometry. Metabolomics, 2009, 5, 497-506.	3.0	73
99	Evaluation of ionic liquid stationary phases for one dimensional gas chromatographyâ€“mass spectrometry and comprehensive two dimensional gas chromatographic analyses of fatty acids in marine biota. Journal of Chromatography A, 2011, 1218, 3056-3063.	3.7	73
100	A novel surface-confined glucaminium-based ionic liquid stationary phase for hydrophilic interaction/anion-exchange mixed-mode chromatography. Journal of Chromatography A, 2014, 1360, 240-247.	3.7	73
101	Serum Metabolic Profiling Study of Hepatocellular Carcinoma Infected with Hepatitis B or Hepatitis C Virus by Using Liquid Chromatographyâ€“Mass Spectrometry. Journal of Proteome Research, 2012, 11, 5433-5442.	3.7	72
102	Nanoparticle Conjugation of Ginsenoside Rg3 Inhibits Hepatocellular Carcinoma Development and Metastasis. Small, 2020, 16, e1905233.	10.0	72
103	Analysis of catecholamines and their metabolites in adrenal gland by liquid chromatography tandem mass spectrometry. Analytica Chimica Acta, 2008, 609, 192-200.	5.4	70
104	Alkaloid profiling of the Chinese herbal medicine Fuzi by combination of matrix-assisted laser desorption ionization mass spectrometry with liquid chromatographyâ€“mass spectrometry. Journal of Chromatography A, 2009, 1216, 2169-2178.	3.7	70
105	Serum metabolic profiling study of lung cancer using ultra high performance liquid chromatography/quadrupole time-of-flight mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2014, 966, 147-153.	2.3	70
106	Recent development of ionic liquid stationary phases for liquid chromatography. Journal of Chromatography A, 2015, 1420, 1-15.	3.7	70
107	Current and future perspectives of functional metabolomics in disease studiesâ€“A review. Analytica Chimica Acta, 2018, 1037, 41-54.	5.4	70
108	Normal and modified urinary nucleosides represent novel biomarkers for colorectal cancer diagnosis and surgery monitoring. Journal of Gastroenterology and Hepatology (Australia), 2005, 20, 1913-1919.	2.8	69

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109	Study of traditional Chinese medicine volatile oils from different geographical origins by comprehensive two-dimensional gas chromatographyâ€“time-of-flight mass spectrometry (GCÂ—GCâ€“TOFMS) in combination with multivariate analysis. Journal of Pharmaceutical and Biomedical Analysis, 2007, 43, 1721-1727.	2.8	69
110	Analysis of Artemisia annua L. volatile oil by comprehensive two-dimensional gas chromatography time-of-flight mass spectrometry. Journal of Chromatography A, 2007, 1150, 50-53.	3.7	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 Quillaja saponaria. Journal of Chromatography A, 2008, 1181, 51-59.	3.7	68
112	Application of Fuzzy c-Means Clustering in Data Analysis of Metabolomics. Analytical Chemistry, 2009, 81, 4468-4475.	6.5	68
113	Systems Biology-Based Diagnostic Principles as Pillars of the Bridge between Chinese and Western Medicine. Planta Medica, 2010, 76, 2036-2047.	1.3	68
114	Characterization of Rheumatoid Arthritis Subtypes Using Symptom Profiles, Clinical Chemistry and Metabolomics Measurements. PLoS ONE, 2012, 7, e44331.	2.5	68
115	A GC-based metabonomics investigation of type 2 diabetes by organic acids metabolic profile. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 850, 236-240.	2.3	67
116	Nontargeted screening of chemical contaminants and illegal additives in food based on liquid chromatographyâ€“high resolution mass spectrometry. TrAC - Trends in Analytical Chemistry, 2017, 96, 89-98.	11.4	67
117	Exhaled volatile organic compounds as lung cancer biomarkers during one-lung ventilation. Scientific Reports, 2014, 4, 7312.	3.3	66
118	Artificial neural network classification based on high-performance liquid chromatography of urinary and serum nucleosides for the clinical diagnosis of cancer. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2002, 780, 27-33.	2.3	64
119	Application of comprehensive two-dimensional gas chromatographyâ€“time-of-flight mass spectrometry in the analysis of volatile oil of traditional Chinese medicines. Journal of Chromatography A, 2004, 1034, 199-205.	3.7	64
120	Simultaneous separation of hydrophilic and hydrophobic compounds by using an online HILICâ€RPLC system with two detectors. Journal of Separation Science, 2008, 31, 1564-1572.	2.5	64
121	Metabolic profiling based on LC/MS to evaluate unintended effects of transgenic rice with cry1Ac and sck genes. Plant Molecular Biology, 2012, 78, 477-487.	3.9	64
122	Systems toxicology study of doxorubicin on rats using ultra performance liquid chromatography coupled with mass spectrometry based metabolomics. Metabolomics, 2009, 5, 407-418.	3.0	63
123	Mass-spectrometry-based microbial metabolomics: recent developments and applications. Analytical and Bioanalytical Chemistry, 2015, 407, 669-680.	3.7	63
124	Analysis of Urinary Metabolic Signatures of Early Hepatocellular Carcinoma Recurrence after Surgical Removal Using Gas Chromatographyâ€“Mass Spectrometry. Journal of Proteome Research, 2012, 11, 4361-4372.	3.7	62
125	A method for handling metabonomics data from liquid chromatography/mass spectrometry: combinational use of support vector machine recursive feature elimination, genetic algorithm and random forest for feature selection. Metabolomics, 2011, 7, 549-558.	3.0	61
126	Effect of Bisphenol A on Rat Metabolic Profiling Studied by Using Capillary Electrophoresis Time-of-Flight Mass Spectrometry. Environmental Science & Technology, 2013, 47, 7457-7465.	10.0	61

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127	Blood volatile compounds as biomarkers for colorectal cancer. Cancer Biology and Therapy, 2014, 15, 200-206.	3.4	61
128	Oral secretions from Mythimna separata insects specifically induce defence responses in maize as revealed by highâ€dimensional biological data. Plant, Cell and Environment, 2016, 39, 1749-1766.	5.7	61
129	Urinary nucleosides as biological markers for patients with colorectal cancer. World Journal of Gastroenterology, 2005, 11, 3871.	3.3	60
130	Serum Metabolomics Study and Eicosanoid Analysis of Childhood Atopic Dermatitis Based on Liquid Chromatographyâ€“Mass Spectrometry. Journal of Proteome Research, 2014, 13, 5715-5723.	3.7	60
131	Determination of radix ginseng volatile oils at different ages by comprehensive twoâ€dimensional gas chromatography/timeâ€ofâ€flight mass spectrometry. Journal of Separation Science, 2008, 31, 3451-3457.	2.5	58
132	Insulin Sensitivity Is Reflected by Characteristic Metabolic Fingerprints - A Fourier Transform Mass Spectrometric Non-Targeted Metabolomics Approach. PLoS ONE, 2010, 5, e13317.	2.5	58
133	Comprehensive hydrophilic interaction and ion-pair reversed-phase liquid chromatography for analysis of di- to deca-oligonucleotides. Journal of Chromatography A, 2012, 1255, 237-243.	3.7	58
134	A novel stop-flow two-dimensional liquid chromatographyâ€“mass spectrometry method for lipid analysis. Journal of Chromatography A, 2013, 1321, 65-72.	3.7	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. Molecular BioSystems, 2010, 6, 852.	2.9	57
136	Volatile Organic Metabolites Identify Patients with Breast Cancer, Cyclomastopathy and Mammary Gland Fibroma. Scientific Reports, 2014, 4, 5383.	3.3	57
137	Metabolomics and transcriptomics profiles reveal the dysregulation of the tricarboxylic acid cycle and related mechanisms in prostate cancer. International Journal of Cancer, 2018, 143, 396-407.	5.1	57
138	Bioconversion of red ginseng saponins in the gastro-intestinal tract in vitro model studied by high-performance liquid chromatographyâ€“high resolution Fourier transform ion cyclotron resonance mass spectrometry. Journal of Chromatography A, 2009, 1216, 2195-2203.	3.7	56
139	Application of plasma lipidomics in studying the response of patients with essential hypertension to antihypertensive drug therapy. Molecular BioSystems, 2011, 7, 3271.	2.9	56
140	New advances in analytical methods for mass spectrometry-based large-scale metabolomics study. TrAC - Trends in Analytical Chemistry, 2019, 121, 115665.	11.4	56
141	Integrated Metabolomics and Lipidomics Analyses Reveal Metabolic Reprogramming in Human Glioma with IDH1 Mutation. Journal of Proteome Research, 2019, 18, 960-969.	3.7	56
142	<scp>MYC</scp>â€driven inhibition of the glutamateâ€cysteine ligase promotes glutathione depletion in liver cancer. EMBO Reports, 2017, 18, 569-585.	4.5	55
143	Discovery and validation of potential urinary biomarkers for bladder cancer diagnosis using a pseudotargeted GC-MS metabolomics method. Oncotarget, 2017, 8, 20719-20728.	1.8	55
144	Structural identification of human blood phospholipids using liquid chromatography/quadrupole-linear ion trap mass spectrometry. Analytica Chimica Acta, 2004, 525, 1-10.	5.4	54

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145	Serum or plasma, what is the difference? Investigations to facilitate the sample material selection decision making process for metabolomics studies and beyond. Analytica Chimica Acta, 2018, 1037, 293-300.	5.4	54
146	Deep Annotation of Hydroxycinnamic Acid Amides in Plants Based on Ultra-High-Performance Liquid Chromatographyâ€“High-Resolution Mass Spectrometry and Its In Silico Database. Analytical Chemistry, 2018, 90, 14321-14330.	6.5	54
147	Artificial neural network classification based on capillary electrophoresis of urinary nucleosides for the clinical diagnosis of tumors. Journal of Chromatography A, 1998, 828, 489-496.	3.7	53
148	Metabolomics study of diabetic retinopathy using gas chromatographyâ€“mass spectrometry: a comparison of stages and subtypes diagnosed by Western and Chinese medicine. Molecular BioSystems, 2011, 7, 2228.	2.9	53
149	Exhaled breath volatile biomarker analysis for thyroid cancer. Translational Research, 2015, 166, 188-195.	5.0	53
150	Study of urinary nucleosides as biological marker in cancer patients analyzed by micellar electrokinetic capillary chromatography. Electrophoresis, 2002, 23, 4104-4109.	2.4	52
151	Determination of urinary oxidative DNA damage marker 8-hydroxy-2â€²-deoxyguanosine and the association with cigarette smoking. Talanta, 2004, 63, 617-623.	5.5	52
152	The lipid profile of brown adipose tissue is sex-specific in mice. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 1563-1570.	2.4	52
153	Multiplatform Metabolomics Reveals Novel Serum Metabolite Biomarkers in Diabetic Retinopathy Subjects. Advanced Science, 2020, 7, 2001714.	11.2	52
154	Urinary hydrophilic and hydrophobic metabolic profiling based on liquid chromatographyâ€mass spectrometry methods: Differential metabolite discovery specific to ovarian cancer. Electrophoresis, 2012, 33, 3361-3369.	2.4	51
155	Simultaneous metabolomics and lipidomics analysis based on novel heart-cutting two-dimensional liquid chromatography-mass spectrometry. Analytica Chimica Acta, 2017, 966, 34-40.	5.4	51
156	Urinary profiling investigation of metabolites withcis-diol structure from cancer patients based on UPLC-MS and HPLC-MS as well as multivariate statistical analysis. Journal of Separation Science, 2006, 29, 2444-2451.	2.5	50
157	Nontargeted Modification-Specific Metabolomics Study Based on Liquid Chromatographyâ€“High-Resolution Mass Spectrometry. Analytical Chemistry, 2014, 86, 9146-9153.	6.5	50
158	The development of plasma pseudotargeted GC-MS metabolic profiling and its application in bladder cancer. Analytical and Bioanalytical Chemistry, 2016, 408, 6741-6749.	3.7	50
159	Determination of urinary 8-hydroxy-2â€²-deoxyguanosine by two approachesâ€”capillary electrophoresis and GC/MS: An assay for in vivo oxidative DNA damage in cancer patients. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2005, 827, 83-87.	2.3	49
160	Effect of the traditional Chinese medicine tongxinluo on endothelial dysfunction rats studied by using urinary metabonomics based on liquid chromatographyâ€“mass spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2011, 56, 86-92.	2.8	49
161	USP10 suppresses tumor progression by inhibiting mTOR activation in hepatocellular carcinoma. Cancer Letters, 2018, 436, 139-148.	7.2	49
162	Lipidomics Analysis Reveals Efficient Storage of Hepatic Triacylglycerides Enriched in Unsaturated Fatty Acids after One Bout of Exercise in Mice. PLoS ONE, 2010, 5, e13318.	2.5	49

#	Article	IF	Citations
163	USP22 regulates lipidome accumulation by stabilizing PPARÎ³ in hepatocellular carcinoma. Nature Communications, 2022, 13, 2187.	12.8	49
164	Preparation and evaluation of a novel hybrid monolithic column based on pentafluorobenzyl imidazolium bromide ionic liquid. Journal of Chromatography A, 2015, 1375, 101-109.	3.7	48
165	Metabolomics Study of Roux-en-Y Gastric Bypass Surgery (RYGB) to Treat Type 2 Diabetes Patients Based on Ultraperformance Liquid Chromatographyâ€“Mass Spectrometry. Journal of Proteome Research, 2016, 15, 1288-1299.	3.7	48
166	Alteration of Leaf Metabolism in Bt-Transgenic Rice (Oryza sativa L.) and Its Wild Type under Insecticide Stress. Journal of Proteome Research, 2012, 11, 4351-4360.	3.7	47
167	Quantitative determination of compounds in tobacco essential oils by comprehensive two-dimensional gas chromatography coupled to time-of-flight mass spectrometry. Journal of Chromatography A, 2005, 1086, 107-114.	3.7	46
168	Analysis of acetylcholine, choline and butyrobetaine in human liver tissues by hydrophilic interaction liquid chromatography-tandem mass spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2008, 47, 870-875.	2.8	46
169	Effect of Allium macrostemon on a rat model of depression studied by using plasma lipid and acylcarnitine profiles from liquid chromatography/mass spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2014, 89, 122-129.	2.8	46
170	Multidimensional liquid chromatography-mass spectrometry for metabolomic and lipidomic analyses. TrAC - Trends in Analytical Chemistry, 2019, 120, 115302.	11.4	46
171	Release of lysophospholipid â€˜find-meâ€™ signals during apoptosis requires the ATP-binding cassette transporter A1. Autoimmunity, 2012, 45, 568-573.	2.6	45
172	Analysis of bacterial fatty acids by flow modulated comprehensive two-dimensional gas chromatography with parallel flame ionization detector/mass spectrometry. Journal of Chromatography A, 2010, 1217, 4448-4453.	3.7	44
173	Optimization of large-scale pseudotargeted metabolomics method based on liquid chromatographyâ€“mass spectrometry. Journal of Chromatography A, 2016, 1437, 127-136.	3.7	44
174	Serum metabolic profiling of abnormal savda by liquid chromatography/mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 871, 322-327.	2.3	43
175	Characterization of cigarette smoke condensates by comprehensive two-dimensional gas chromatography/time-of-flight mass spectrometry (GCÃ—GC/TOFMS) Part 2: Basic fraction. Journal of Separation Science, 2004, 27, 101-109.	2.5	42
176	Strategy for Comprehensive Identification of Acylcarnitines Based on Liquid Chromatographyâ€“High-Resolution Mass Spectrometry. Analytical Chemistry, 2018, 90, 5712-5718.	6.5	42
177	Metabolomic identification of potential phospholipid biomarkers for chronic glomerulonephritis by using high performance liquid chromatographyâ€“mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 860, 134-140.	2.3	41
178	The Application of Chromatography-Mass Spectrometry: Methods to Metabonomics. Chromatographia, 2009, 69, 23-32.	1.3	41
179	Serum lipid profiling of patients with chronic hepatitis <scp>B</scp>, cirrhosis, and hepatocellular carcinoma by ultra fast <scp>LC</scp>/<scp>IT</scp>â€«<scp>TOF MS</scp>. Electrophoresis, 2013, 34, 2848-2856.	2.4	41
180	Stable Isotope-Assisted Lipidomics Combined with Nontargeted Isotopomer Filtering, a Tool to Unravel the Complex Dynamics of Lipid Metabolism. Analytical Chemistry, 2013, 85, 4651-4657.	6.5	41

#	Article	IF	Citations
181	Study of surface-bonded dicationic ionic liquids as stationary phases for hydrophilic interaction chromatography. Journal of Chromatography A, 2014, 1330, 40-50.	3.7	41
182	Preparation and evaluation of surface-bonded tricationic ionic liquid silica as stationary phases for high-performance liquid chromatography. Journal of Chromatography A, 2015, 1396, 62-71.	3.7	41
183	Nontargeted Screening Method for Illegal Additives Based on Ultrahigh-Performance Liquid Chromatographyâ€“High-Resolution Mass Spectrometry. Analytical Chemistry, 2016, 88, 8870-8877.	6.5	41
184	Synthesis of magnetic mesoporous metal-organic framework-5 for the effective enrichment of malachite green and crystal violet in fish samples. Journal of Chromatography A, 2018, 1560, 19-25.	3.7	41
185	Application of probabilistic neural network in the clinical diagnosis of cancers based on clinical chemistry data. Analytica Chimica Acta, 2002, 471, 77-86.	5.4	40
186	Determination of monoamines in urine by capillary electrophoresis with field-amplified sample stacking and amperometric detection. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2006, 835, 55-61.	2.3	40
187	Urinary metabolic profiling of colorectal carcinoma based on online affinity solid phase extraction-high performance liquid chromatography and ultra performance liquid chromatography-mass spectrometry. Molecular BioSystems, 2010, 6, 1947.	2.9	40
188	Ion Fusion of High-Resolution LCâ€“MS-Based Metabolomics Data to Discover More Reliable Biomarkers. Analytical Chemistry, 2014, 86, 3793-3800.	6.5	40
189	Association of Serum Bile Acids Profile and Pathway Dysregulation With the Risk of Developing Diabetes Among Normoglycemic Chinese Adults: Findings From the 4C Study. Diabetes Care, 2021, 44, 499-510.	8.6	40
190	Accelerated solvent extraction for GC-based tobacco fingerprinting and its comparison with simultaneous distillation and extraction. Talanta, 2010, 81, 650-656.	5.5	39
191	On-line stop-flow two-dimensional liquid chromatographyâ€“mass spectrometry method for the separation and identification of triterpenoid saponins from ginseng extract. Analytical and Bioanalytical Chemistry, 2015, 407, 331-341.	3.7	39
192	A random forest of combined features in the classification of cut tobacco based on gas chromatography fingerprinting. Talanta, 2010, 82, 1571-1575.	5.5	38
193	A fully automated system with on-line micro solid-phase extraction combined with capillary liquid chromatographyâ€“tandem mass spectrometry for high throughput analysis of microcystins and nodularin-R in tap water and lake water. Journal of Chromatography A, 2011, 1218, 1743-1748.	3.7	38
194	Investigation of the Relationship between the Metabolic Profile of Tobacco Leaves in Different Planting Regions and Climate Factors Using a Pseudotargeted Method Based on Gas Chromatography/Mass Spectrometry. Journal of Proteome Research, 2013, 12, 5072-5083.	3.7	38
195	Lysophosphatidylcholines activate PPARÎ´ and protect human skeletal muscle cells from lipotoxicity. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 1980-1992.	2.4	38
196	Serum Metabolomics Study of Nonsmoking Female Patients with Non-Small Cell Lung Cancer Using Gas Chromatographyâ€“Mass Spectrometry. Journal of Proteome Research, 2019, 18, 2175-2184.	3.7	38
197	Serum metabolic profiling and features of papillary thyroid carcinoma and nodular goiter. Molecular BioSystems, 2011, 7, 2608.	2.9	37
198	Evaluation of automated sample preparation, retention time locked gas chromatographyâ€“mass spectrometry and data analysis methods for the metabolomic study of Arabidopsis species. Journal of Chromatography A, 2011, 1218, 3247-3254.	3.7	37

#	Article	IF	Citations
199	Method for liver tissue metabolic profiling study and its application in type 2 diabetic rats based on ultra performance liquid chromatographyâ€“mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2011, 879, 961-967.	2.3	37
200	Large-scaled human serum sphingolipid profiling by using reversed-phase liquid chromatography coupled with dynamic multiple reaction monitoring of mass spectrometry: Method development and application in hepatocellular carcinoma. Journal of Chromatography A, 2013, 1320, 103-110.	3.7	37
201	Application of LC-MS-based metabolomics method in differentiating septic survivors from non-survivors. Analytical and Bioanalytical Chemistry, 2016, 408, 7641-7649.	3.7	37
202	Surface-bonded amide-functionalized imidazolium ionic liquid as stationary phase for hydrophilic interaction liquid chromatography. Journal of Chromatography A, 2018, 1559, 141-148.	3.7	37
203	Human Prostate Cancer Is Characterized by an Increase in Urea Cycle Metabolites. Cancers, 2020, 12, 1814.	3.7	37
204	Serum lipid profiling of patients with chronic hepatitis B, cirrhosis, and hepatocellular carcinoma by ultra fast LC/IT-TOF MS. Electrophoresis, 2013, 34, 2848-56.	2.4	37
205	On-line two dimensional liquid chromatography/mass spectrometry for the analysis of triacylglycerides in peanut oil and mouse tissue. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2012, 895-896, 48-55.	2.3	36
206	Interpretation of comprehensive two-dimensional gas chromatography data using advanced chemometrics. TrAC - Trends in Analytical Chemistry, 2014, 53, 150-166.	11.4	36
207	Proline metabolism in cancer. Amino Acids, 2021, 53, 1769-1777.	2.7	36
208	Characterization of complex hydrocarbons in cigarette smoke condensate by gas chromatographyâ€“mass spectrometry and comprehensive two-dimensional gas chromatographyâ€“time-of-flight mass spectrometry. Journal of Chromatography A, 2004, 1043, 265-273.	3.7	35
209	Gas chromatographyâ€mass spectrometric method for metabolic profiling of tobacco leaves. Journal of Separation Science, 2011, 34, 1447-1454.	2.5	35
210	A weighted relative difference accumulation algorithm for dynamic metabolomics data: long-term elevated bile acids are risk factors for hepatocellular carcinoma. Scientific Reports, 2015, 5, 8984.	3.3	35
211	Purity matters: A workflow for the valid high-resolution lipid profiling of mitochondria from cell culture samples. Scientific Reports, 2016, 6, 21107.	3.3	35
212	ORP4L Extracts and Presents PIP2 from Plasma Membrane for PLCÎ²3 Catalysis: Targeting It Eradicates Leukemia Stem Cells. Cell Reports, 2019, 26, 2166-2177.e9.	6.4	35
213	Modified metabolites mapping by liquid chromatography-high resolution mass spectrometry using full scan/all ion fragmentation/neutral loss acquisition. Journal of Chromatography A, 2019, 1583, 80-87.	3.7	35
214	A multi-omics investigation of the molecular characteristics and classification of six metabolic syndrome relevant diseases. Theranostics, 2020, 10, 2029-2046.	10.0	35
215	Alteration of Metabolic Profile and Potential Biomarkers in the Plasma of Alzheimerâ€™s Disease. , 2020, 11, 1459.		35
216	Comparison of comprehensive two-dimensional gas chromatography/time-of-flight mass spectrometry and gas chromatographyâ€“mass spectrometry for the analysis of tobacco essential oils. Analytica Chimica Acta, 2005, 545, 224-231.	5.4	34

#	Article	IF	Citations
217	Deconvolution of overlapped peaks based on the exponentially modified Gaussian model in comprehensive two-dimensional gas chromatography. Journal of Chromatography A, 2005, 1086, 160-164.	3.7	34
218	Determination of fentanyl in human breath by solid-phase microextraction and gas chromatographyâ€“mass spectrometry. Microchemical Journal, 2009, 91, 149-152.	4.5	34
219	Ultra-high capacity liquid chromatography chip/quadrupole time-of-flight mass spectrometry for pharmaceutical analysis. Journal of Chromatography A, 2011, 1218, 3669-3674.	3.7	34
220	Pseudotargeted Method Based on Parallel Column Two-Dimensional Liquid Chromatography-Mass Spectrometry for Broad Coverage of Metabolome and Lipidome. Analytical Chemistry, 2020, 92, 6043-6050.	6.5	34
221	Application of capillary zone electrophoresis in the separation and determination of the curcuminoids in urine. Journal of Pharmaceutical and Biomedical Analysis, 2005, 38, 133-138.	2.8	33
222	Metabolomics study of cured tobacco using liquid chromatography with mass spectrometry: Method development and its application in investigating the chemical differences of tobacco from three growing regions. Journal of Separation Science, 2014, 37, 1067-1074.	2.5	33
223	High-sensitivity detection of biogenic amines with multiple reaction monitoring in fish based on benzoyl chloride derivatization. Journal of Chromatography A, 2016, 1465, 30-37.	3.7	33
224	Ion-Pair Selection Method for Pseudotargeted Metabolomics Based on SWATH MS Acquisition and Its Application in Differential Metabolite Discovery of Type 2 Diabetes. Analytical Chemistry, 2018, 90, 11401-11408.	6.5	33
225	Capillary electrophoresis with end-column amperometric detection of urinary 8-hydroxy-2'-deoxyguanosine. Electrophoresis, 2003, 24, 1411-1415.	2.4	32
226	Metabolomics for tumor marker discovery and identification based on chromatographyâ€“mass spectrometry. Expert Review of Molecular Diagnostics, 2013, 13, 339-348.	3.1	32
227	Comprehensive two-dimensional chromatography for analyzing complex samples: recent new advances. Analytical Methods, 2014, 6, 7112-7123.	2.7	32
228	Metabolic Profiling with Gas Chromatographyâ€“Mass Spectrometry and Capillary Electrophoresisâ€“Mass Spectrometry Reveals the Carbonâ€“Nitrogen Status of Tobacco Leaves Across Different Planting Areas. Journal of Proteome Research, 2016, 15, 468-476.	3.7	32
229	Plasma disturbance of phospholipid metabolism in major depressive disorder by integration of proteomics and metabolomics. Neuropsychiatric Disease and Treatment, 2018, Volume 14, 1451-1461.	2.2	32
230	Determination of urinary nucleosides by direct injection and coupled-column high-performance liquid chromatography. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2005, 819, 85-90.	2.3	31
231	Identification of unknown compounds on the basis of retention index data in comprehensive two-dimensional gas chromatography. Journal of Separation Science, 2007, 30, 868-874.	2.5	31
232	Urinary metabonomics study in a rat model in response to protein-energy malnutrition by using gas chromatography-mass spectrometry and liquid chromatography-mass spectrometry. Molecular BioSystems, 2010, 6, 2157.	2.9	31
233	Effect of a traditional Chinese medicine prescription Quzhuotongbi decoction on hyperuricemia model rats studied by using serum metabolomics based on gas chromatographyâ€“mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1026, 272-278.	2.3	31
234	Serum metabolome and targeted bile acid profiling reveals potential novel biomarkers for drug-induced liver injury. Medicine (United States), 2019, 98, e16717.	1.0	31

#	Article	IF	Citations
235	Metabolomics of lung cancer: Analytical platforms and their applications. Journal of Separation Science, 2020, 43, 120-133.	2.5	31
236	Analysis of coenzyme Q10 in human plasma by column-switching liquid chromatography. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2004, 805, 297-301.	2.3	30
237	Metabolic profiling study of early and late recurrence of hepatocellular carcinoma based on liquid chromatography-mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2014, 966, 163-170.	2.3	30
238	Plasma Lipidomics Investigation of Hemodialysis Effects by Using Liquid Chromatographyâ€“Mass Spectrometry. Journal of Proteome Research, 2016, 15, 1986-1994.	3.7	30
239	Quality Control of Serum and Plasma by Quantification of (4E,14Z)-Sphingadienine-C18-1-Phosphate Uncovers Common Preanalytical Errors During Handling of Whole Blood. Clinical Chemistry, 2018, 64, 810-819.	3.2	30
240	Metabolomics profiling of metformin-mediated metabolic reprogramming bypassing AMPKÎ±. Metabolism: Clinical and Experimental, 2019, 91, 18-29.	3.4	30
241	Hypotaurine evokes a malignant phenotype in glioma through aberrant hypoxic signaling. Oncotarget, 2016, 7, 15200-15214.	1.8	30
242	Determination of arsenic species by capillary zone electrophoresis with large-volume field-amplified stacking injection. Electrophoresis, 2001, 22, 3567-3572.	2.4	29
243	Study of urinary steroid hormone disorders: difference between hepatocellular carcinoma in early stage and cirrhosis. Analytical and Bioanalytical Chemistry, 2014, 406, 4325-4335.	3.7	29
244	Linking bioenergetic function of mitochondria to tissue-specific molecular fingerprints. American Journal of Physiology - Endocrinology and Metabolism, 2019, 317, E374-E387.	3.5	29
245	Effect ofHelicobacter pyloriinfection onp53expression of gastric mucosa and adenocarcinoma with microsatellite instability. World Journal of Gastroenterology, 2005, 11, 4363.	3.3	28
246	A Novel Strategy for Large-Scale Metabolomics Study by Calibrating Gross and Systematic Errors in Gas Chromatographyâ€“Mass Spectrometry. Analytical Chemistry, 2016, 88, 2234-2242.	6.5	28
247	Determination of retention indices in constant inlet pressure mode and conversion among different column temperature conditions in comprehensive two-dimensional gas chromatography. Journal of Chromatography A, 2007, 1150, 28-36.	3.7	27
248	Phenotype differentiation of three E. coli strains by GC-FID and GCâ€“MS based metabolomics. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 871, 220-226.	2.3	27
249	Therapeutic effect of Yunnan Baiyao on rheumatoid arthritis was partially due to regulating arachidonic acid metabolism in osteoblasts. Journal of Pharmaceutical and Biomedical Analysis, 2012, 59, 130-137.	2.8	27
250	Production and Release of Acylcarnitines by Primary Myotubes Reflect the Differences in Fasting Fat Oxidation of the Donors. Journal of Clinical Endocrinology and Metabolism, 2013, 98, E1137-E1142.	3.6	27
251	Study of polar metabolites in tobacco from different geographical origins by using capillary electrophoresisâ€“mass spectrometry. Metabolomics, 2014, 10, 805-815.	3.0	27
252	Therapeutic effect and autophagy regulation of myriocin in nonalcoholic steatohepatitis. Lipids in Health and Disease, 2019, 18, 179.	3.0	27

#	Article	IF	Citations
253	Muscle-Liver Substrate Fluxes in Exercising Humans and Potential Effects on Hepatic Metabolism. Journal of Clinical Endocrinology and Metabolism, 2020, 105, 1196-1209.	3.6	27
254	Rapid lipidomic profiling based on ultra-high performance liquid chromatographyâ€“mass spectrometry and its application in diabetic retinopathy. Analytical and Bioanalytical Chemistry, 2020, 412, 3585-3594.	3.7	27
255	Combined berberine and probiotic treatment as an effective regimen for improving postprandial hyperlipidemia in type 2 diabetes patients: a double blinded placebo controlled randomized study. Gut Microbes, 2022, 14, 2003176.	9.8	27
256	A high throughput metabolomics method and its application in female serum samples in a normal menstrual cycle based on liquid chromatography-mass spectrometry. Talanta, 2018, 185, 483-490.	5.5	26
257	Plasma phospholipid metabolic profiling and biomarkers of mouse IgA nephropathy. Metabolomics, 2006, 2, 95-104.	3.0	25
258	Classification and differential metabolite discovery of liver diseases based on plasma metabolic profiling and support vector machines. Journal of Separation Science, 2011, 34, 3029-3036.	2.5	25
259	Serum Metabolomics Study of the Acute Graft Rejection in Human Renal Transplantation Based on Liquid Chromatographyâ€“Mass Spectrometry. Journal of Proteome Research, 2014, 13, 2659-2667.	3.7	25
260	Comprehensive Analysis of Short-, Medium-, and Long-Chain Acyl-Coenzyme A by Online Two-Dimensional Liquid Chromatography/Mass Spectrometry. Analytical Chemistry, 2017, 89, 12902-12908.	6.5	25
261	A Highâ€Fat Diet Rich in Saturated and Monoâ€Unsaturated Fatty Acids Induces Disturbance of Thyroid Lipid Profile and Hypothyroxinemia in Male Rats. Molecular Nutrition and Food Research, 2018, 62, e1700599.	3.3	25
262	Metabolic changes in primary, secondary, and lipid metabolism in tobacco leaf in response to topping. Analytical and Bioanalytical Chemistry, 2018, 410, 839-851.	3.7	25
263	Integration of Proteomics and Metabolomics Revealed Metaboliteâ€“Protein Networks in ACTH-Secreting Pituitary Adenoma. Frontiers in Endocrinology, 2018, 9, 678.	3.5	25
264	Single-cell Metabolomics Analysis by Microfluidics and Mass Spectrometry: Recent New Advances. Journal of Analysis and Testing, 2020, 4, 198-209.	5.1	25
265	Metabolome-wide association study of serum exogenous chemical residues in a cohort with 5 major chronic diseases. Environment International, 2022, 158, 106919.	10.0	25
266	Resolution prediction and optimization of temperature programme in comprehensive two-dimensional gas chromatography. Journal of Chromatography A, 2005, 1086, 175-184.	3.7	24
267	Secondary Metabolic Profiling and Artemisinin Biosynthesis of Two Genotypes ofArtemisia annua. Planta Medica, 2009, 75, 1625-1633.	1.3	24
268	A simultaneous extraction method for metabolome and lipidome and its application in cry1Ac and sck-transgenic rice leaf treated with insecticide based on LCâ€“MS analysis. Metabolomics, 2014, 10, 1197-1209.	3.0	24
269	GC/MS-based metabolomic studies reveal key roles of glycine inÂregulating silk synthesis in silkworm, Bombyx mori. Insect Biochemistry and Molecular Biology, 2015, 57, 41-50.	2.7	24
270	Serum metabolomics study of Traditional Chinese medicine formula intervention to polycystic ovary syndrome. Journal of Pharmaceutical and Biomedical Analysis, 2016, 120, 127-133.	2.8	24

#	Article	IF	Citations
271	Rational Synthesis of Aptamer-Functionalized Polyethylenimine-Modified Magnetic Graphene Oxide Composites for Highly Efficient Enrichment and Comprehensive Metabolomics Analysis of Exosomes. Analytical Chemistry, 2020, 92, 15497-15505.	6.5	24
272	Lipid Profiling Reveals Different Therapeutic Effects of Metformin and Glipizide in Patients With Type 2 Diabetes and Coronary Artery Disease. Diabetes Care, 2014, 37, 2804-2812.	8.6	23
273	Recent advances in using mass spectrometry for mitochondrial metabolomics and lipidomics - A review. Analytica Chimica Acta, 2018, 1037, 3-12.	5.4	23
274	Screening and Determination of Potential Risk Substances Based on Liquid Chromatographyâ€“High-Resolution Mass Spectrometry. Analytical Chemistry, 2018, 90, 8454-8461.	6.5	23
275	Linking biological activity with herbal constituents by systems biology-based approaches: effects of Panax ginseng in type 2 diabetic Goto-Kakizaki rats. Molecular BioSystems, 2011, 7, 3094.	2.9	22
276	Metabonomics study of the acute graft rejection in rat renal transplantation using reversed-phase liquid chromatography and hydrophilic interaction chromatography coupled with mass spectrometry. Molecular BioSystems, 2012, 8, 871.	2.9	22
277	A novel strategy to evaluate the quality of traditional Chinese medicine based on the correlation analysis of chemical fingerprint and biological effect. Journal of Pharmaceutical and Biomedical Analysis, 2013, 83, 57-64.	2.8	22
278	Synthesis of a new type of echinus-like Fe3O4@TiO2 coreâ€“shell-structured microspheres and their applications in selectively enriching phosphopeptides and removing phospholipids. Journal of Chromatography A, 2013, 1275, 9-16.	3.7	22
279	Molecular interaction study of flavonoids with human serum albumin using native mass spectrometry and molecular modeling. Analytical and Bioanalytical Chemistry, 2018, 410, 827-837.	3.7	22
280	Identification and determination of glycosides in tobacco leaves by liquid chromatography with atmospheric pressure chemical ionization tandem mass spectrometry. Journal of Separation Science, 2007, 30, 289-296.	2.5	21
281	Facile synthesis of Fe₃ O₄ @polyethyleneimine modified with 4-formylphenylboronic acid for the highly selective extraction of major catecholamines from human urine. Journal of Separation Science, 2015, 38, 2857-2864.	2.5	21
282	Free amino acids and small molecular acids profiling of marine microalga Isochrysis zhangjiangensis under nitrogen deficiency. Algal Research, 2016, 13, 207-217.	4.6	21
283	Parallel derivatization strategy coupled with liquid chromatography-mass spectrometry for broad coverage of steroid hormones. Journal of Chromatography A, 2020, 1614, 460709.	3.7	21
284	Serum Metabolomics for Biomarker Screening of Esophageal Squamous Cell Carcinoma and Esophageal Squamous Dysplasia Using Gas Chromatography-Mass Spectrometry. ACS Omega, 2020, 5, 26402-26412.	3.5	21
285	Integrating transcriptome and metabolome reveals molecular networks involved in genetic and environmental variation in tobacco. DNA Research, 2020, 27, .	3.4	21
286	Characterization of nitrogen-containing compounds in petroleum fractions by online reversed-phase liquid chromatography-electrospray ionization Orbitrap mass spectrometry. Fuel, 2021, 284, 119035.	6.4	21
287	Capillary electrophoretic analysis of arsenic species with indirect laser induced fluorescence detection. Journal of Separation Science, 2002, 25, 155-159.	2.5	20
288	Rapid detection ofStaphylococcus aureus by a combination of monoclonal antibody-coated latex and capillary electrophoresis. Electrophoresis, 2006, 27, 1784-1789.	2.4	20

#	Article	IF	Citations
289	Effect of PA-MSHA vaccine on plasma phospholipids metabolic profiling and the ratio of Th2/Th1 cells within immune organ of mouse IgA nephropathy. Journal of Pharmaceutical and Biomedical Analysis, 2007, 43, 646-654.	2.8	20
290	Study on the effect of eicosapentaenoic acid on phospholipids composition in membrane microdomains of tight junctions of epithelial cells by liquid chromatography/electrospray mass spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2008, 47, 343-350.	2.8	20
291	A metabolomics-based method for studying the effect of yfcC gene in Escherichia coli on metabolism. Analytical Biochemistry, 2014, 451, 48-55.	2.4	20
292	Lipidome and metabolome analysis of fresh tobacco leaves in different geographical regions using liquid chromatographyâ€“mass spectrometry. Analytical and Bioanalytical Chemistry, 2015, 407, 5009-5020.	3.7	20
293	Metabolic Profiling Reveals Biochemical Pathways and Potential Biomarkers of Spinocerebellar Ataxia 3. Frontiers in Molecular Neuroscience, 2019, 12, 159.	2.9	20
294	Switching from Fatty Acid Oxidation to Glycolysis Improves the Outcome of Acuteâ€Onâ€Chronic Liver Failure. Advanced Science, 2020, 7, 1902996.	11.2	20
295	Alteration of lipids and amino acids in plasma distinguish schizophrenia patients from controls: A targeted metabolomics study. Psychiatry and Clinical Neurosciences, 2021, 75, 138-144.	1.8	20
296	Analysis of free amino acids in flueâ€cured tobacco leaves using ultraâ€high performance liquid chromatography with single quadrupole mass spectrometry. Journal of Separation Science, 2013, 36, 2868-2877.	2.5	19
297	Online Three Dimensional Liquid Chromatography/Mass Spectrometry Method for the Separation of Complex Samples. Analytical Chemistry, 2017, 89, 1433-1438.	6.5	19
298	Serum Monounsaturated Triacylglycerol Predicts Steatohepatitis in Patients with Non-alcoholic Fatty Liver Disease and Chronic Hepatitis B. Scientific Reports, 2017, 7, 10517.	3.3	18
299	Carboxymethylated polyethylenimine modified magnetic nanoparticles specifically for purification of Hisâ€tagged protein. Journal of Separation Science, 2019, 42, 744-753.	2.5	18
300	Liquid Chromatographyâ€“Mass Spectrometry-Based Tissue Metabolic Profiling Reveals Major Metabolic Pathway Alterations and Potential Biomarkers of Lung Cancer. Journal of Proteome Research, 2020, 19, 3750-3760.	3.7	18
301	Metabolic Alterations Related to Glioma Grading Based on Metabolomics and Lipidomics Analyses. Metabolites, 2020, 10, 478.	2.9	18
302	High-throughput single cell metabolomics and cellular heterogeneity exploration by inertial microfluidics coupled with pulsed electric field-induced electrospray ionization-high resolution mass spectrometry. Analytica Chimica Acta, 2022, 1221, 340116.	5.4	18
303	Identification of phospholipid structures in human blood by direct-injection quadrupole-linear ion-trap mass spectrometry. Rapid Communications in Mass Spectrometry, 2005, 19, 2443-2453.	1.5	17
304	Synthesis of silica-based benzeneboronic acid affinity materials and application as pre-column in coupled-column high-performance liquid chromatography. Analytica Chimica Acta, 2006, 580, 181-187.	5.4	17
305	Optimization of a GCâ€“MS metabolic fingerprint method and its application in characterizing engineered bacterial metabolic shift. Journal of Separation Science, 2009, 32, 2281-2288.	2.5	17
306	Study of metabolite differences of flue-cured tobacco from different regions using a pseudotargeted gas chromatography with mass spectrometry selected-ion monitoring method. Journal of Separation Science, 2014, 37, 2177-2184.	2.5	17

#	Article	IF	Citations
307	Clinical and non-targeted metabolomic profiling of homozygous carriers of Transcription Factor 7-like 2 variant rs7903146. Scientific Reports, 2014, 4, 5296.	3.3	17
308	Muscle and liver-specific alterations in lipid and acylcarnitine metabolism after a single bout of exercise in mice. Scientific Reports, 2016, 6, 22218.	3.3	17
309	An alignment algorithm for LC-MS-based metabolomics dataset assisted by MS/MS information. Analytica Chimica Acta, 2017, 990, 96-102.	5.4	17
310	Serum Metabolomics Study of Gliclazide-Modified-Release-Treated Type 2 Diabetes Mellitus Patients Using a Gas Chromatographyâ€“Mass Spectrometry Method. Journal of Proteome Research, 2018, 17, 1575-1585.	3.7	17
311	Enhancement of mitochondrial biogenesis and paradoxical inhibition of lactate dehydrogenase mediated by 14â€³â€³Î· in oncocytomas. Journal of Pathology, 2018, 245, 361-372.	4.5	17
312	Which is the urine sample material of choice for metabolomics-driven biomarker studies?. Analytica Chimica Acta, 2020, 1105, 120-127.	5.4	17
313	Method for the Analysis of 8-Hydroxy-2'-deoxyguanosine in Urine by Gas Chromatography.. Analytical Sciences, 2001, 17, 779-781.	1.6	16
314	Rapid characterization of the sucrose esters from oriental tobacco using liquid chromatography/ion trap mass spectrometry. Rapid Communications in Mass Spectrometry, 2006, 20, 2816-2822.	1.5	16
315	Metabolic responses of rice leaves and seeds under transgenic backcross breeding and pesticide stress by pseudotargeted metabolomics. Metabolomics, 2015, 11, 1802-1814.	3.0	16
316	Differential Amino Acid, Carbohydrate and Lipid Metabolism Perpetuations Involved in a Subtype of Rheumatoid Arthritis with Chinese Medicine Cold Pattern. International Journal of Molecular Sciences, 2016, 17, 1757.	4.1	16
317	Plasma bile acid changes in type 2 diabetes correlated with insulin secretion in twoâ€step hyperglycemic clamp. Journal of Diabetes, 2018, 10, 874-885.	1.8	16
318	A comprehensive strategy for studying protein-metabolite interactions by metabolomics and native mass spectrometry. Talanta, 2019, 194, 63-72.	5.5	16
319	Identification of SPOP related metabolic pathways in prostate cancer. Oncotarget, 2017, 8, 103032-103046.	1.8	16
320	Quality evaluation of volatile oils of Traditional Chinese Medicines by using comprehensive two-dimensional gas chromatography (GCÃ—GC). Chromatographia, 2003, 57, S265-S270.	1.3	15
321	Profiling and Association Mapping of Grain Metabolites in a Subset of the Core Collection of Chinese Rice Germplasm (Oryza sativaL.). Journal of Agricultural and Food Chemistry, 2011, 59, 9257-9264.	5.2	15
322	Chipâ€based nanoflow high performance liquid chromatography coupled to mass spectrometry for profiling of soybean flavonoids. Electrophoresis, 2012, 33, 2399-2406.	2.4	15
323	Lipidomics Reveals Multiple Pathway Effects of a Multi-Components Preparation on Lipid Biochemistry in ApoE*3Leiden.CETP Mice. PLoS ONE, 2012, 7, e30332.	2.5	15
324	A lipidomics study reveals hepatic lipid signatures associating with deficiency of the LDL receptor in a rat model. Biology Open, 2016, 5, 979-986.	1.2	15

#	Article	IF	Citations
325	Plasma metabolomics profiling of maintenance hemodialysis based on capillary electrophoresis - time of flight mass spectrometry. Scientific Reports, 2017, 7, 8150.	3.3	15
326	Comprehensive Profiling by Nonâ€targeted Stable Isotope Tracing Capillary Electrophoresisâ€Mass Spectrometry: A New Tool Complementing Metabolomic Analyses of Polar Metabolites. Chemistry - A European Journal, 2019, 25, 5427-5432.	3.3	15
327	Nontargeted screening method for veterinary drugs and their metabolites based on fragmentation characteristics from ultrahigh-performance liquid chromatography-high-resolution mass spectrometry. Food Chemistry, 2022, 369, 130928.	8.2	15
328	Determination of Sugars in Tobacco Leaf by HPLC with Evaporative Light Scattering Detection. Journal of Liquid Chromatography and Related Technologies, 2006, 29, 1281-1289.	1.0	14
329	Investigation on response of the metabolites in tricarboxylic acid cycle of Escherichi coli and Pseudomonas aeruginosa to antibiotic perturbation by capillary electrophoresis. Journal of Pharmaceutical and Biomedical Analysis, 2007, 44, 180-187.	2.8	14
330	Simultaneous determination of non-volatile, semi-volatile, and volatile organic acids in tobacco by SIMâ€“Scan mode GCâ€“MS. Journal of Separation Science, 2008, 31, 721-726.	2.5	14
331	Liquid chromatography/mass spectrometryâ€based metabolic profiling to elucidate chemical differences of tobacco leaves between Zimbabwe and China. Journal of Separation Science, 2011, 34, 119-126.	2.5	14
332	Metabolic profiling of transgenic rice progeny using gas chromatographyâ€“mass spectrometry: the effects of gene insertion, tissue culture and breeding. Metabolomics, 2012, 8, 529-539.	3.0	14
333	Activation of choline kinase drives aberrant choline metabolism in esophageal squamous cell carcinomas. Journal of Pharmaceutical and Biomedical Analysis, 2018, 155, 148-156.	2.8	14
334	Quantitative structure-retention relationships model for retention time prediction of veterinary drugs in food matrixes. International Journal of Mass Spectrometry, 2018, 434, 172-178.	1.5	14
335	Lipid alterations and subtyping maker discovery of lung cancer based on nontargeted tissue lipidomics using liquid chromatographyâ€“mass spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2020, 190, 113520.	2.8	14
336	Capillary Electrophoresis of Urinary Normal and Modified Nucleosides of Cancer Patients. , 2001, 162, 459-474.		13
337	Enhancing the sensitivity of capillary electrophoresis using a microcolumn solid phase extraction setup. Journal of Separation Science, 2003, 26, 1527-1532.	2.5	13
338	Detection of K-ras exon 1 mutations by constant denaturant capillary electrophoresis. Biomedical Chromatography, 2004, 18, 538-541.	1.7	13
339	Methylation analysis of hMLH1 gene promoter by a bisulfite-sensitive single-strand conformation polymorphismâ€“capillary electrophoresis method. Biomedical Chromatography, 2006, 20, 815-820.	1.7	13
340	Evaluation and optimization of sample preparation methods for metabolic profiling analysis of Escherichia coli. Electrophoresis, 2015, 36, 2140-2147.	2.4	13
341	Metabolic profiling analysis of Siraitia grosvenorii revealed different characteristics of green fruit and saccharified yellow fruit. Journal of Pharmaceutical and Biomedical Analysis, 2017, 145, 158-168.	2.8	13
342	A novel analysis method for biomarker identification based on horizontal relationship: identifying potential biomarkers from large-scale hepatocellular carcinoma metabolomics data. Analytical and Bioanalytical Chemistry, 2019, 411, 6377-6386.	3.7	13

#	Article	IF	Citations
343	Synthesis of metal-organic framework-5@chitosan material for the analysis of microcystins and nodularin based on ultra-performance liquid chromatography-tandem mass spectrometry. Journal of Chromatography A, 2020, 1623, 461198.	3.7	13
344	Serum lipidomic biomarkers for non-small cell lung cancer in nonsmoking female patients. Journal of Pharmaceutical and Biomedical Analysis, 2020, 185, 113220.	2.8	13
345	Liquid Chromatographyâ€“Mass Spectrometry-Based Nontargeted Metabolomics Predicts Prognosis of Hepatocellular Carcinoma after Curative Resection. Journal of Proteome Research, 2020, 19, 3533-3541.	3.7	13
346	Deep Neural Network Pretrained by Weighted Autoencoders and Transfer Learning for Retention Time Prediction of Small Molecules. Analytical Chemistry, 2021, 93, 15651-15658.	6.5	13
347	A single-strand conformation polymorphism method by capillary electrophoresis with laser-induced fluorescence for detection of the T1151A mutation in hMLH1 gene. Electrophoresis, 2003, 24, 2316-2321.	2.4	12
348	Removal of false positive features to generate authentic peak table for high-resolution mass spectrometry-based metabolomics study. Analytica Chimica Acta, 2019, 1067, 79-87.	5.4	12
349	Strategy for Nontargeted Metabolomic Annotation and Quantitation Using a High-Resolution Spectral-Stitching Nanoelectrospray Direct-Infusion Mass Spectrometry with Data-Independent Acquisition. Analytical Chemistry, 2021, 93, 10528-10537.	6.5	12
350	A modified k-TSP algorithm and its application in LCâ€“MS-based metabolomics study of hepatocellular carcinoma and chronic liver diseases. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2014, 966, 100-108.	2.3	11
351	Highly efficient solid-phase derivatization of sugar phosphates with titanium-immobilized hydrophilic polydopamine-coated silica. Journal of Chromatography A, 2016, 1457, 125-133.	3.7	11
352	Metabolomics Toward Biomarker Discovery. Methods in Molecular Biology, 2017, 1619, 467-475.	0.9	11
353	Metabolomeâ€Genomeâ€Wide Association Study (mGWAS) Reveals Novel Metabolites Associated with Future Type 2 Diabetes Risk and Susceptibility Loci in a Caseâ€Control Study in a Chinese Prospective Cohort. Global Challenges, 2021, 5, 2000088.	3.6	11
354	Gut microbiota-related metabolome analysis based on chromatography-mass spectrometry. TrAC - Trends in Analytical Chemistry, 2021, 143, 116375.	11.4	11
355	Overexpression of hMSH2 and hMLH1 protein in certain gastric cancers and their surrounding mucosae. Oncology Reports, 0, , .	2.6	11
356	Exercise prevents fatty liver by modifying the compensatory response of mitochondrial metabolism to excess substrate availability. Molecular Metabolism, 2021, 54, 101359.	6.5	11
357	Data analysis methods for defining biomarkers from omics data. Analytical and Bioanalytical Chemistry, 2022, 414, 235-250.	3.7	11
358	Metabonomics Study of Intestinal Transplantation Using Ultrahigh-Performance Liquid Chromatography Time-of-Flight Mass Spectrometry. Digestion, 2008, 77, 122-130.	2.3	10
359	Breath pentane: an indicator for early and continuous monitoring of lipid peroxidation in hepatic ischaemiaâ€reperfusion injury. European Journal of Anaesthesiology, 2009, 26, 513-519.	1.7	10
360	Plasma and Liver Lipidomics Response to an Intervention of Rimonabant in ApoE*3Leiden.CETP Transgenic Mice. PLoS ONE, 2011, 6, e19423.	2.5	10

#	Article	IF	Citations
361	Sampleâ€directed pseudotargeted method for the metabolic profiling analysis of rice seeds based on liquid chromatography with mass spectrometry. Journal of Separation Science, 2016, 39, 247-255.	2.5	10
362	How to Screen and Prevent Metabolic Syndrome in Patients of PCOS Early: Implications From Metabolomics. Frontiers in Endocrinology, 2021, 12, 659268.	3.5	10
363	Plasma Metabolomics for Discovery of Early Metabolic Markers of Prostate Cancer Based on Ultra-High-Performance Liquid Chromatography-High Resolution Mass Spectrometry. Cancers, 2021, 13, 3140.	3.7	10
364	Low-dose PCB126 exposure disrupts cardiac metabolism and causes hypertrophy and fibrosis in mice. Environmental Pollution, 2021, 290, 118079.	7.5	10
365	MetEx: A Targeted Extraction Strategy for Improving the Coverage and Accuracy of Metabolite Annotation in Liquid Chromatographyâ€“High-Resolution Mass Spectrometry Data. Analytical Chemistry, 2022, 94, 8561-8569.	6.5	10
366	Independent component analysis in non-hypothesis driven metabolomics: Improvement of pattern discovery and simplification of biological data interpretation demonstrated with plasma samples of exercising humans. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2012, 910, 156-162.	2.3	9
367	Chemical properties investigation of commercial cigarettes by a â€œpseudoâ€targeted method using GC-MS-selected ions monitoring. Journal of Separation Science, 2013, 36, 1545-1552.	2.5	9
368	Preparation of mesoporous SiO₂@azobenzeneâ€“COOH chemoselective nanoprobes for comprehensive mapping of amino metabolites in human serum. Chemical Communications, 2015, 51, 11321-11324.	4.1	9
369	Metabolic profiling reveals distinct metabolic alterations in different subtypes of pituitary adenomas and confers therapeutic targets. Journal of Translational Medicine, 2019, 17, 291.	4.4	9
370	Serum Metabolic Profiling Identifies a Biomarker Panel for Improvement of Prostate Cancer Diagnosis. Frontiers in Oncology, 2021, 11, 666320.	2.8	9
371	Metabolomics insights into the prenatal exposure effects of polybrominated diphenyl ethers on neonatal birth outcomes. Science of the Total Environment, 2022, 836, 155601.	8.0	9
372	Rapid identification of pathogenic bacteria by capillary electrophoretic analysis of rRNA genes. Journal of Separation Science, 2005, 28, 513-521.	2.5	8
373	Rapid quantification of sucrose esters in oriental tobacco by liquid chromatography-ion trap mass spectrometry. Journal of Separation Science, 2007, 30, 35-41.	2.5	8
374	Separation and detection of polar cuticular components from Oriental tobacco leaf by integration of normalâ€phase liquid chromatography fractionation with reversedâ€phase liquid chromatographyâ€mass spectrometry. Journal of Separation Science, 2010, 33, 3429-3436.	2.5	8
375	Systematic, Modifying Group-Assisted Strategy Expanding Coverage of Metabolite Annotation in Liquid Chromatographyâ€“Mass Spectrometry-Based Nontargeted Metabolomics Studies. Analytical Chemistry, 2021, 93, 10916-10924.	6.5	8
376	Determination of candidate metabolite biomarkers associated with recurrence of HCV-related hepatocellular carcinoma. Oncotarget, 2018, 9, 6245-6258.	1.8	8
377	Metabolic Reprogramming and Its Relationship to Survival in Hepatocellular Carcinoma. Cells, 2022, 11, 1066.	4.1	8
378	Simultaneous analysis of microsatellite instability and loss of heterozygosity by capillary electrophoresis with a homemade kit. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2006, 834, 122-127.	2.3	7

#	Article	IF	Citations
379	Application of L-EDA in metabonomics data handling: global metabolite profiling and potential biomarker discovery of epithelial ovarian cancer prognosis. Metabolomics, 2011, 7, 614-622.	3.0	7
380	Breath Pentane as a Potential Biomarker for Survival in Hepatic Ischemia and Reperfusion Injuryâ€"A Pilot Study. PLoS ONE, 2012, 7, e44940.	2.5	7
381	A rapid GC method coupled with quadrupole or time of flight mass spectrometry for metabolomics analysis. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2020, 1160, 122355.	2.3	7
382	Recent development of nanoparticle-assisted metabolites analysis with mass spectrometry. Journal of Chromatography A, 2021, 1636, 461785.	3.7	7
383	HPLC-MS-Based Metabonomics Reveals Disordered Lipid Metabolism in Patients with Metabolic Syndrome. Journal of Analytical Science and Technology, 2011, 2, A173-A178.	2.1	7
384	Optimization of Gas Chromatographic Analytical Methods for Toxic Compounds in Air. Analytical Sciences, 1994, 10, 241-245.	1.6	6
385	Fluorescent-based Single-strand Conformation Polymorphism/Heteroduplex Capillary Electrophoretic Mutation Analysis of the P53 Gene. Analytical Sciences, 2004, 20, 1001-1005.	1.6	6
386	Synthesis and Application of a Nitrobenzeneboronic Acid-substituated Silica for Affinity Chromatography. Chinese Journal of Analytical Chemistry, 2006, 34, 1366-1370.	1.7	6
387	Novel affinity monolithic column modified with cuprous sulfide nanoparticles for the selective enrichment of lowâ€molecularâ€weight electronâ€rich analytes. Journal of Separation Science, 2015, 38, 982-989.	2.5	6
388	Serum lipid profiling analysis and potential marker discovery for ovarian cancer based on liquid chromatographyâ€"Mass spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2021, 199, 114048.	2.8	6
389	Sample Collection and Preparation of Biofluids and Extracts for Liquid Chromatography-Mass Spectrometry. Methods in Molecular Biology, 2015, 1277, 51-59.	0.9	6
390	Comparison of Erythrocyte Membrane Lipid Profiles between NAFLD Patients with or without Hyperlipidemia. International Journal of Endocrinology, 2020, 2020, 1-12.	1.5	6
391	Simultaneous genotyping of multiplex single nucleotide polymorphisms of the K-ras gene with a home-made kit. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2003, 795, 55-60.	2.3	5
392	HMLH1 gene mutation in gastric cancer patients and their kindred. World Journal of Gastroenterology, 2005, 11, 3144.	3.3	5
393	Untargeted Lipidomics Reveals Specific Lipid Abnormalities in Nonfunctioning Human Pituitary Adenomas. Journal of Proteome Research, 2020, 19, 455-463.	3.7	5
394	A graph density-based strategy for features fusion from different peak extract software to achieve more metabolites in metabolic profiling from high-resolution mass spectrometry. Analytica Chimica Acta, 2020, 1139, 8-14.	5.4	5
395	Alternate reversed-phase and hydrophilic interaction liquid chromatography coupled with mass spectrometry for broad coverage in metabolomics analysis. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2020, 1152, 122266.	2.3	5
396	Metabolite Triplet in Serum Improves the Diagnostic Accuracy of Prediabetes and Diabetes Screening. Journal of Proteome Research, 2021, 20, 1005-1014.	3.7	5

#	Article	IF	Citations
397	Facile Synthesis of Antibody-Coupled Polydopamine-Coated Magnetic Graphene Oxide Composites for Efficient Immunopurification and Metabolomics Analysis of Mitochondria. Analytical Chemistry, 2021, 93, 11099-11107.	6.5	5
398	Development of a novel analytical method for inflammation and immunity-related metabolites in serum based on liquid chromatography tandem mass spectrometry. Talanta, 2021, 234, 122631.	5.5	5
399	Capillary Electrophoresis of Oxidative Dna Damage. , 2008, 384, 431-440.		5
400	Metabolic Reprogramming and Risk Stratification of Hepatocellular Carcinoma Studied by Using Gas Chromatographyâ€“Mass Spectrometry-Based Metabolomics. Cancers, 2022, 14, 231.	3.7	5
401	Effect of docosahexaenoic acid on interleukin-2 receptor signaling pathway in lipid rafts. Science in China Series C: Life Sciences, 2006, 49, 63-72.	1.3	4
402	Quantification of cis-Abienol in Oriental Tobacco Leaves by LC. Chromatographia, 2007, 66, 529-532.	1.3	4
403	Measurement of pentane in expiratory gas during rabbit hepatic ischemia/reperfusion by solid-phase microextraction and gas chromatographyâ€“mass spectrometry (SPME GC/MS). Journal of Breath Research, 2012, 6, 026003.	3.0	4
404	Sexâ€specific plasma metabolome signatures in major depressive disorder. Psychiatry and Clinical Neurosciences, 2019, 73, 713-714.	1.8	4
405	Lipid Profiling of 20 Mammalian Cells by Capillary Microsampling Combined with High-Resolution Spectral Stitching Nanoelectrospray Ionization Direct-Infusion Mass Spectrometry. Analytical Chemistry, 2021, 93, 10031-10038.	6.5	4
406	Association of plasma branchedâ€chain amino acids with overweight: A Mendelian randomization analysis. Obesity, 2021, 29, 1708-1718.	3.0	4
407	Capillary Electrophoresis of Gene Mutation. , 2008, 384, 441-455.		4
408	Comprehensive metabolite quantitative assay based on alternate metabolomics and lipidomics analyses. Analytica Chimica Acta, 2022, 1215, 339979.	5.4	4
409	Studies on Pathway of Producing Terephthalic Acid by Microorganism Coordinated Catalysis. Chinese Journal of Analytical Chemistry, 2008, 36, 1024-1028.	1.7	3
410	Highâ€throughput metabolic profiling based on small amount of hepatic cells. Electrophoresis, 2017, 38, 2296-2303.	2.4	3
411	A high throughput lipidomics method and its application in atrial fibrillation based on 96-well plate pretreatment and liquid chromatography-mass spectrometry. Journal of Chromatography A, 2021, 1651, 462271.	3.7	3
412	Comparison of the metabolome in urine prior and eight weeks after radical prostatectomy uncovers pathologic and molecular features of prostate cancer. Journal of Pharmaceutical and Biomedical Analysis, 2021, 205, 114288.	2.8	3
413	LC-MS Metabonomics Methodology in Biomarker Discovery. Methods in Pharmacology and Toxicology, 2008, , 291-315.	0.2	3
414	Novel Stable Isotope-Resolved Metabolomics Method for a Small Number of Cells Using Chip-Based Nanoelectrospray Mass Spectrometry. Analytical Chemistry, 2021, 93, 13765-13773.	6.5	3

#	Article	IF	Citations
415	A data processing pipeline for petroleomics based on liquid chromatography-high resolution mass spectrometry. Journal of Chromatography A, 2022, 1673, 463194.	3.7	3
416	Determination of Trace RA by Capillary Electrophoresis-Solid-Phase Microextraction with Direct UV Detection. Journal of Chromatographic Science, 2003, 41, 301-304.	1.4	2
417	Differences between the metabolic profiles of decompensated and compensated cirrhosis patients with Hepatitis B virus infections under high-performance liquid chromatography-mass spectrometry. Metabolomics, 2012, 8, 845-853.	3.0	2
418	Identification and regulation of the xenometabolite derivatives cis- and trans-3,4-methylene-heptanoylcarnitine in plasma and skeletal muscle of exercising humans. American Journal of Physiology - Endocrinology and Metabolism, 2020, 318, E701-E709.	3.5	2
419	Prognosis prediction of hepatocellular carcinoma after surgical resection based on serum metabolic profiling from gas chromatography-mass spectrometry. Analytical and Bioanalytical Chemistry, 2021, 413, 3153-3165.	3.7	2
420	Serum Metabonomics Reveals Risk Factors in Different Periods of Cerebral Infarction in Humans. Frontiers in Molecular Biosciences, 2021, 8, 784288.	3.5	2
421	In-depth characterization of nitrogen heterocycles of petroleum by liquid chromatography-energy-resolved high resolution tandem mass spectrometry. Talanta, 2022, 249, 123654.	5.5	2
422	Mismatch repair gene hMSH2 protein as predictive maker for gastric carcinoma. Chinese-German Journal of Clinical Oncology, 2007, 6, 37-39.	0.1	1
423	Preface. Analytica Chimica Acta, 2018, 1037, 1-2.	5.4	1
424	Protein profiling analysis based on matrix-assisted laser desorption/ionization-Fourier transform ion cyclotron resonance mass spectrometry and its application in typing Streptomyces isolates. Talanta, 2020, 208, 120439.	5.5	1
425	Untargeted Defining Proteinâ€“Metabolites Interaction Based on Label-Free Kinetic Size Exclusion Chromatography-Mass Spectrometry. Analytical Chemistry, 2020, 92, 7657-7665.	6.5	1
426	Liquid Chromatography-Mass Spectrometry of Biofluids and Extracts. Methods in Molecular Biology, 2015, 1277, 61-73.	0.9	1
427	Title is missing!. Chinese Journal of Chromatography (Se Pu), 2011, 29, 97-98.	0.8	1
428	Validation of Transitions by Intelligent Selected Reaction Monitoring-Mass Spectrometry for Protein Absolute Quantitation. Chinese Journal of Analytical Chemistry, 2012, 40, 59.	1.7	1
429	Nontargeted screening of veterinary drugs and their metabolites in milk based on mass defect filtering using liquid chromatographyâ€“highâ€resolution mass spectrometry. Electrophoresis, 2022, 43, 1822-1831.	2.4	1
430	Diagnostic Performance of Sex-Specific Modified Metabolite Patterns in Urine for Screening of Prediabetes. Frontiers in Endocrinology, 0, 13, .	3.5	1
431	The Effect of Helicobacter Pylori Infection on Expression of hMSH2, hMLH1 and p53 in Gastric Carcinogenesis. Chinese-German Journal of Clinical Oncology, 2005, 4, 209-212.	0.1	0
432	The effect ofHelicobacter pylori infection on hMSH2 and P53 proteins in gastric carcinogenesis. Chinese Journal of Clinical Oncology, 2005, 2, 791-795.	0.0	0

#	Article	IF	Citations
433	Changes of hMSH2 and hMLH1 Expression in Nasopharyngeal carcinoma cells after X-radiation. Chinese Journal of Clinical Oncology, 2005, 2, 700-705.	0.0	0
434	The role of expression of mismatch repair proteins hMSH2 and hMLH1 in gastric carcinogenesis and its clinical significance. Chinese Journal of Clinical Oncology, 2007, 4, 351-354.	0.0	0
435	A new two-dimensional LCâ€“MS/MS-based metabonomics method and its applications in the traditional Chinese medicines and diseases. Journal of Biotechnology, 2008, 136, S26.	3.8	0
436	Hanfa Zou, 1961â€“2016. Journal of Chromatography A, 2017, 1498, 2-7.	3.7	0
437	Reply. Hepatology, 2018, 67, 2483-2484.	7.3	0
438	EXTH-03. TRIPTOLIDE, A NOVEL THERAPEUTIC AGENT FOR IDH1-MUTATED GLIOMA. Neuro-Oncology, 2019, 21, vi82-vi83.	1.2	0
439	Metabolomic in Parkinsonâ€™s. Neuromethods, 2022, , 181-213.	0.3	0
440	Metabonomics of Hepatocellular Carcinoma. , 2012, , 155-177.		0
441	Screening of Metabolite Regulating Lactic Acid Production ofExiguobacterium aurantiacumATCC49676 by Metabolic Fingerprint Analysis. Acta Chimica Sinica, 2012, 70, 2513.	1.4	0
442	Determination of Steroid Hormones in Mouse Brain by Online Capillary Solid Phase Extraction-Nano Liquid Chromatography-Tandem Mass Spectrometry. Chinese Journal of Analytical Chemistry, 2013, 41, 517.	1.7	0
443	Determination of Nucleosides inEscherichia coliby Rapid Resolution Liquid Chromatography-Tandem Quadrupole Mass Spectrometry. Chinese Journal of Analytical Chemistry, 2013, 41, 36.	1.7	0
444	Mass Spectrometry-Based Lipidomics for Biomarker Research. , 2014, , 1-20.		0
445	Abstract 1839: Development of urinary pseudo-targeted LC-MS based metabolomics method and its application in hepatocellular carcinoma biomarker discovery. , 2015, , .		0
446	Two-Dimensional Liquid Chromatography-Mass Spectrometry of Lipids. , 2016, , 1-14.		0
447	Metabolic Activity of the Liver during Exerciseâ€”A Metabolomics Approach. Diabetes, 2018, 67, .	0.6	0