

Xin Lu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67
papers

1,874
citations

27
h-index

41
g-index

69
ext. papers

2,373
ext. citations

5.3
avg, IF

4.47
L-index

#	Paper	IF	Citations
67	A Large-scale, multicenter serum metabolite biomarker identification study for the early detection of hepatocellular carcinoma. <i>Hepatology</i> , 2018 , 67, 662-675	11.2	152
66	LC-MS-based metabolomics analysis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008 , 866, 64-76	3.2	127
65	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, 4441-51	7.8	95
64	Integration of Metabolomics and Transcriptomics Reveals Major Metabolic Pathways and Potential Biomarker Involved in Prostate Cancer. <i>Molecular and Cellular Proteomics</i> , 2016 , 15, 154-63	7.6	87
63	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	4.9	82
62	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, 5050-5	7.8	74
61	Serum metabolomics study of chronic renal failure by ultra performance liquid chromatography coupled with Q-TOF mass spectrometry. <i>Metabolomics</i> , 2008 , 4, 183-189	4.7	67
60	A data preprocessing strategy for metabolomics to reduce the mask effect in data analysis. <i>Frontiers in Molecular Biosciences</i> , 2015 , 2, 4	5.6	60
59	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	4.7	60
58	Comprehensive Strategy to Construct In-House Database for Accurate and Batch Identification of Small Molecular Metabolites. <i>Analytical Chemistry</i> , 2018 , 90, 7635-7643	7.8	52
57	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	4.9	44
56	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	7.5	43
55	Comprehensive investigation of tobacco leaves during natural early senescence via multi-platform metabolomics analyses. <i>Scientific Reports</i> , 2016 , 6, 37976	4.9	43
54	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	8.4	40
53	Characterization of cigarette smoke condensates by comprehensive two-dimensional gas chromatography/time-of-flight mass spectrometry (GC x GC/TOFMS). Part 2: basic fraction. <i>Journal of Separation Science</i> , 2004 , 27, 101-9	3.4	36
52	Discovery and validation of potential urinary biomarkers for bladder cancer diagnosis using a pseudotargeted GC-MS metabolomics method. <i>Oncotarget</i> , 2017 , 8, 20719-20728	3.3	36
51	The development of plasma pseudotargeted GC-MS metabolic profiling and its application in bladder cancer. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 6741-9	4.4	34

50	Study of surface-bonded dicationic ionic liquids as stationary phases for hydrophilic interaction chromatography. <i>Journal of Chromatography A</i> , 2014 , 1330, 40-50	4.5	34
49	Synthesis of magnetic mesoporous metal-organic framework-5 for the effective enrichment of malachite green and crystal violet in fish samples. <i>Journal of Chromatography A</i> , 2018 , 1560, 19-25	4.5	33
48	Strategy for Comprehensive Identification of Acylcarnitines Based on Liquid Chromatography-High-Resolution Mass Spectrometry. <i>Analytical Chemistry</i> , 2018 , 90, 5712-5718	7.8	31
47	Characterization of complex hydrocarbons in cigarette smoke condensate by gas chromatography-mass spectrometry and comprehensive two-dimensional gas chromatography-time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2004 , 1043, 265-73	4.5	31
46	Nontargeted Screening Method for Illegal Additives Based on Ultrahigh-Performance Liquid Chromatography-High-Resolution Mass Spectrometry. <i>Analytical Chemistry</i> , 2016 , 88, 8870-7	7.8	31
45	Preparation and evaluation of surface-bonded tricationic ionic liquid silica as stationary phases for high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2015 , 1396, 62-71	4.5	30
44	Comprehensive two-dimensional chromatography for analyzing complex samples: recent new advances. <i>Analytical Methods</i> , 2014 , 6, 7112-7123	3.2	30
43	Optimization of large-scale pseudotargeted metabolomics method based on liquid chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2016 , 1437, 127-136	4.5	29
42	High-sensitivity detection of biogenic amines with multiple reaction monitoring in fish based on benzoyl chloride derivatization. <i>Journal of Chromatography A</i> , 2016 , 1465, 30-7	4.5	29
41	A weighted relative difference accumulation algorithm for dynamic metabolomics data: long-term elevated bile acids are risk factors for hepatocellular carcinoma. <i>Scientific Reports</i> , 2015 , 5, 8984	4.9	27
40	Identification of unknown compounds on the basis of retention index data in comprehensive two-dimensional gas chromatography. <i>Journal of Separation Science</i> , 2007 , 30, 868-74	3.4	27
39	Metabolic Profiling with Gas Chromatography-Mass Spectrometry and Capillary Electrophoresis-Mass Spectrometry Reveals the Carbon-Nitrogen Status of Tobacco Leaves Across Different Planting Areas. <i>Journal of Proteome Research</i> , 2016 , 15, 468-76	5.6	25
38	Study of polar metabolites in tobacco from different geographical origins by using capillary electrophoresis-mass spectrometry. <i>Metabolomics</i> , 2014 , 10, 805-815	4.7	25
37	Integrated Metabolomics and Lipidomics Analyses Reveal Metabolic Reprogramming in Human Glioma with IDH1 Mutation. <i>Journal of Proteome Research</i> , 2019 , 18, 960-969	5.6	25
36	Deep Annotation of Hydroxycinnamic Acid Amides in Plants Based on Ultra-High-Performance Liquid Chromatography-High-Resolution Mass Spectrometry and Its In Silico Database. <i>Analytical Chemistry</i> , 2018 , 90, 14321-14330	7.8	25
35	Ion-Pair Selection Method for Pseudotargeted Metabolomics Based on SWATH MS Acquisition and Its Application in Differential Metabolite Discovery of Type 2 Diabetes. <i>Analytical Chemistry</i> , 2018 , 90, 11401-11408	7.8	24
34	Resolution prediction and optimization of temperature programme in comprehensive two-dimensional gas chromatography. <i>Journal of Chromatography A</i> , 2005 , 1086, 175-84	4.5	23
33	A Novel Strategy for Large-Scale Metabolomics Study by Calibrating Gross and Systematic Errors in Gas Chromatography-Mass Spectrometry. <i>Analytical Chemistry</i> , 2016 , 88, 2234-42	7.8	22

32	Metabolic profiling study of early and late recurrence of hepatocellular carcinoma based on liquid chromatography-mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014 , 966, 163-70	3.2	22
31	Metabolic changes in primary, secondary, and lipid metabolism in tobacco leaf in response to topping. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 839-851	4.4	19
30	Serum Metabolomics Study of Nonsmoking Female Patients with Non-Small Cell Lung Cancer Using Gas Chromatography-Mass Spectrometry. <i>Journal of Proteome Research</i> , 2019 , 18, 2175-2184	5.6	17
29	A simultaneous extraction method for metabolome and lipidome and its application in cry1Ac and sck-transgenic rice leaf treated with insecticide based on LCMS analysis. <i>Metabolomics</i> , 2014 , 10, 1197-1209	4.7	16
28	Screening and Determination of Potential Risk Substances Based on Liquid Chromatography-High-Resolution Mass Spectrometry. <i>Analytical Chemistry</i> , 2018 , 90, 8454-8461	7.8	15
27	Serum Metabolomics Study of Gliclazide-Modified-Release-Treated Type 2 Diabetes Mellitus Patients Using a Gas Chromatography-Mass Spectrometry Method. <i>Journal of Proteome Research</i> , 2018 , 17, 1575-1585	5.6	14
26	Metabolic responses of rice leaves and seeds under transgenic backcross breeding and pesticide stress by pseudotargeted metabolomics. <i>Metabolomics</i> , 2015 , 11, 1802-1814	4.7	13
25	Quality evaluation of volatile oils of Traditional Chinese Medicines by using comprehensive two-dimensional gas chromatography (GC/MS). <i>Chromatographia</i> , 2003 , 57, S265-S270	2.1	13
24	Plasma metabolomics profiling of maintenance hemodialysis based on capillary electrophoresis - time of flight mass spectrometry. <i>Scientific Reports</i> , 2017 , 7, 8150	4.9	12
23	Metabolic profiling of transgenic rice progeny using gas chromatography-mass spectrometry: the effects of gene insertion, tissue culture and breeding. <i>Metabolomics</i> , 2012 , 8, 529-539	4.7	12
22	An alignment algorithm for LC-MS-based metabolomics dataset assisted by MS/MS information. <i>Analytica Chimica Acta</i> , 2017 , 990, 96-102	6.6	11
21	Serum Metabolomics for Biomarker Screening of Esophageal Squamous Cell Carcinoma and Esophageal Squamous Dysplasia Using Gas Chromatography-Mass Spectrometry. <i>ACS Omega</i> , 2020 , 5, 26402-26412	3.9	11
20	Integrating transcriptome and metabolome reveals molecular networks involved in genetic and environmental variation in tobacco. <i>DNA Research</i> , 2020 , 27,	4.5	8
19	Sample-directed pseudotargeted method for the metabolic profiling analysis of rice seeds based on liquid chromatography with mass spectrometry. <i>Journal of Separation Science</i> , 2016 , 39, 247-55	3.4	8
18	Removal of false positive features to generate authentic peak table for high-resolution mass spectrometry-based metabolomics study. <i>Analytica Chimica Acta</i> , 2019 , 1067, 79-87	6.6	6
17	Quantitative structure-retention relationships model for retention time prediction of veterinary drugs in food matrixes. <i>International Journal of Mass Spectrometry</i> , 2018 , 434, 172-178	1.9	6
16	Liquid Chromatography-Mass Spectrometry-Based Nontargeted Metabolomics Predicts Prognosis of Hepatocellular Carcinoma after Curative Resection. <i>Journal of Proteome Research</i> , 2020 , 19, 3533-3541	5.6	5
15	Application of L-EDA in metabonomics data handling: global metabolite profiling and potential biomarker discovery of epithelial ovarian cancer prognosis. <i>Metabolomics</i> , 2011 , 7, 614-622	4.7	5

14	Nontargeted screening method for veterinary drugs and their metabolites based on fragmentation characteristics from ultrahigh-performance liquid chromatography-high-resolution mass spectrometry. <i>Food Chemistry</i> , 2022 , 369, 130928	8.5	5
13	Synthesis of metal-organic framework-5@chitosan material for the analysis of microcystins and nodularin based on ultra-performance liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2020 , 1623, 461198	4.5	4
12	Deep Neural Network Pretrained by Weighted Autoencoders and Transfer Learning for Retention Time Prediction of Small Molecules. <i>Analytical Chemistry</i> , 2021 , 93, 15651-15658	7.8	3
11	A rapid GC method coupled with quadrupole or time of flight mass spectrometry for metabolomics analysis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020 , 1160, 122355	3.2	3
10	High-throughput metabolic profiling based on small amount of hepatic cells. <i>Electrophoresis</i> , 2017 , 38, 2296-2303	3.6	2
9	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. <i>Analytica Chimica Acta</i> , 2020 , 1139, 8-14	6.6	2
8	Strategy for Nontargeted Metabolomic Annotation and Quantitation Using a High-Resolution Spectral-Stitching Nanoelectrospray Direct-Infusion Mass Spectrometry with Data-Independent Acquisition. <i>Analytical Chemistry</i> , 2021 , 93, 10528-10537	7.8	2
7	Metabolite Triplet in Serum Improves the Diagnostic Accuracy of Prediabetes and Diabetes Screening. <i>Journal of Proteome Research</i> , 2021 , 20, 1005-1014	5.6	2
6	Nontargeted screening of veterinary drugs and their metabolites in milk based on mass defect filtering using liquid chromatography-high-resolution mass spectrometry. <i>Electrophoresis</i> , 2021 ,	3.6	1
5	Novel Stable Isotope-Resolved Metabolomics Method for a Small Number of Cells Using Chip-Based Nanoelectrospray Mass Spectrometry. <i>Analytical Chemistry</i> , 2021 , 93, 13765-13773	7.8	1
4	Protein profiling analysis based on matrix-assisted laser desorption/ionization-Fourier transform ion cyclotron resonance mass spectrometry and its application in typing <i>Streptomyces</i> isolates. <i>Talanta</i> , 2020 , 208, 120439	6.2	1
3	Development of a novel analytical method for inflammation and immunity-related metabolites in serum based on liquid chromatography tandem mass spectrometry. <i>Talanta</i> , 2021 , 234, 122631	6.2	1
2	Metabolomics insights into the prenatal exposure effects of polybrominated diphenyl ethers on neonatal birth outcomes.. <i>Science of the Total Environment</i> , 2022 , 155601	10.2	0
1	A data processing pipeline for petroleomics based on liquid chromatography-high resolution mass spectrometry. <i>Journal of Chromatography A</i> , 2022 , 463194	4.5	0