

Guo-wang Xu

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434
papers

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68
h-index

102
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467
ext. papers

20,192
ext. citations

5.3
avg, IF

6.62
L-index

#	Paper	IF	Citations
434	Gut microbiome and serum metabolome alterations in obesity and after weight-loss intervention. <i>Nature Medicine</i> , 2017 , 23, 859-868	50.5	627
433	Metabolic characterization of hepatocellular carcinoma using nontargeted tissue metabolomics. <i>Cancer Research</i> , 2013 , 73, 4992-5002	10.1	273
432	Altered Lipid Metabolism in Recovered SARS Patients Twelve Years after Infection. <i>Scientific Reports</i> , 2017 , 7, 9110	4.9	233
431	Plasma phospholipid metabolic profiling and biomarkers of type 2 diabetes mellitus based on high-performance liquid chromatography/electrospray mass spectrometry and multivariate statistical analysis. <i>Analytical Chemistry</i> , 2005 , 77, 4108-16	7.8	228
430	Comprehensive two-dimensional gas chromatography/time-of-flight mass spectrometry for metabolomics: Biomarker discovery for diabetes mellitus. <i>Analytica Chimica Acta</i> , 2009 , 633, 257-62	6.6	195
429	Analyses of gut microbiota and plasma bile acids enable stratification of patients for antidiabetic treatment. <i>Nature Communications</i> , 2017 , 8, 1785	17.4	192
428	Diagnosis of liver cancer using HPLC-based metabolomics avoiding false-positive result from hepatitis and hepatocirrhosis diseases. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004 , 813, 59-65	3.2	188
427	Metabolomics study of liver cancer based on ultra performance liquid chromatography coupled to mass spectrometry with HILIC and RPLC separations. <i>Analytica Chimica Acta</i> , 2009 , 650, 3-9	6.6	180
426	Relationship of Serum Trimethylamine N-Oxide (TMAO) Levels with early Atherosclerosis in Humans. <i>Scientific Reports</i> , 2016 , 6, 26745	4.9	174
425	A metabolomic study of hepatitis B-induced liver cirrhosis and hepatocellular carcinoma by using RP-LC and HILIC coupled with mass spectrometry. <i>Molecular BioSystems</i> , 2009 , 5, 868-76		173
424	Preanalytical aspects and sample quality assessment in metabolomics studies of human blood. <i>Clinical Chemistry</i> , 2013 , 59, 833-45	5.5	172
423	Effects of pre-analytical processes on blood samples used in metabolomics studies. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 4879-92	4.4	165
422	Analytical strategies in lipidomics and applications in disease biomarker discovery. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009 , 877, 2836-46	3.2	163
421	Practical approach for the identification and isomer elucidation of biomarkers detected in a metabolomic study for the discovery of individuals at risk for diabetes by integrating the chromatographic and mass spectrometric information. <i>Analytical Chemistry</i> , 2008 , 80, 1280-9	7.8	158
420	Metabolomic fingerprints of fasting plasma and spot urine reveal human pre-diabetic metabolic traits. <i>Metabolomics</i> , 2010 , 6, 362-374	4.7	157
419	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
418	Simultaneous extraction of metabolome and lipidome with methyl tert-butyl ether from a single small tissue sample for ultra-high performance liquid chromatography/mass spectrometry. <i>Journal of Chromatography A</i> , 2013 , 1298, 9-16	4.5	144

417	Characterization of flavor compounds in Chinese liquor Moutai by comprehensive two-dimensional gas chromatography/time-of-flight mass spectrometry. <i>Analytica Chimica Acta</i> , 2007 , 597, 340-8	6.6	144
416	Effect of traditional Chinese medicine berberine on type 2 diabetes based on comprehensive metabonomics. <i>Talanta</i> , 2010 , 81, 766-72	6.2	142
415	Metabonomics study of intestinal fistulas based on ultraperformance liquid chromatography coupled with Q-TOF mass spectrometry (UPLC/Q-TOF MS). <i>Journal of Proteome Research</i> , 2006 , 5, 2135-43	5.6	141
414	Pseudotargeted metabolomics method and its application in serum biomarker discovery for hepatocellular carcinoma based on ultra high-performance liquid chromatography/triple quadrupole mass spectrometry. <i>Analytical Chemistry</i> , 2013 , 85, 8326-33	7.8	139
413	RPLC-ion-trap-FTMS method for lipid profiling of plasma: method validation and application to p53 mutant mouse model. <i>Journal of Proteome Research</i> , 2008 , 7, 4982-91	5.6	139
412	Changes of the plasma metabolome during an oral glucose tolerance test: is there more than glucose to look at?. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009 , 296, E384-93	6	127
411	LC-MS-based metabonomics analysis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008 , 866, 64-76	3.2	127
410	High performance liquid chromatography-mass spectrometry for metabonomics: potential biomarkers for acute deterioration of liver function in chronic hepatitis B. <i>Journal of Proteome Research</i> , 2006 , 5, 554-61	5.6	123
409	Discovery and validation of plasma biomarkers for major depressive disorder classification based on liquid chromatography-mass spectrometry. <i>Journal of Proteome Research</i> , 2015 , 14, 2322-30	5.6	114
408	Serum metabolomics reveals the deregulation of fatty acids metabolism in hepatocellular carcinoma and chronic liver diseases. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 403, 203-13	4.4	110
407	Determination of sulfur-containing compounds in diesel oils by comprehensive two-dimensional gas chromatography with a sulfur chemiluminescence detector. <i>Journal of Chromatography A</i> , 2003 , 1019, 101-9	4.5	108
406	Docosahexaenoic acid changes lipid composition and interleukin-2 receptor signaling in membrane rafts. <i>Journal of Lipid Research</i> , 2005 , 46, 1904-13	6.3	108
405	Quality and safety of Chinese herbal medicines guided by a systems biology perspective. <i>Journal of Ethnopharmacology</i> , 2009 , 126, 31-41	5	106
404	Metabolomics study of stepwise hepatocarcinogenesis from the model rats to patients: potential biomarkers effective for small hepatocellular carcinoma diagnosis. <i>Molecular and Cellular Proteomics</i> , 2012 , 11, M111.010694	7.6	105
403	Discrimination of Type 2 diabetic patients from healthy controls by using metabonomics method based on their serum fatty acid profiles. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004 , 813, 53-8	3.2	95
402	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
401	Metabolomics study of hepatocellular carcinoma: discovery and validation of serum potential biomarkers by using capillary electrophoresis-mass spectrometry. <i>Journal of Proteome Research</i> , 2014 , 13, 3420-31	5.6	94
400	Comprehensive and highly sensitive urinary steroid hormone profiling method based on stable isotope-labeling liquid chromatography-mass spectrometry. <i>Analytical Chemistry</i> , 2012 , 84, 10245-51	7.8	93

399	Medium chain acylcarnitines dominate the metabolite pattern in humans under moderate intensity exercise and support lipid oxidation. <i>PLoS ONE</i> , 2010 , 5, e11519	3.7	93
398	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
397	A support vector machine-recursive feature elimination feature selection method based on artificial contrast variables and mutual information. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012 , 910, 149-55	3.2	87
396	Interferon-gamma and tumor necrosis factor-alpha disrupt epithelial barrier function by altering lipid composition in membrane microdomains of tight junction. <i>Clinical Immunology</i> , 2008 , 126, 67-80	9	87
395	Serum 27-nor-5 β cholestane-3,7,12,24,25 pentol glucuronide discovered by metabolomics as potential diagnostic biomarker for epithelium ovarian cancer. <i>Journal of Proteome Research</i> , 2011 , 10, 2625-32	5.6	86
394	Metabolic fingerprinting investigation of <i>Artemisia annua</i> L. in different stages of development by gas chromatography and gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2008 , 1186, 412-9	4.5	84
393	Development of urinary pseudotargeted LC-MS-based metabolomics method and its application in hepatocellular carcinoma biomarker discovery. <i>Journal of Proteome Research</i> , 2015 , 14, 906-16	5.6	83
392	Mass spectrometry-based metabolomics: a guide for annotation, quantification and best reporting practices. <i>Nature Methods</i> , 2021 , 18, 747-756	21.6	83
391	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
390	Effect of a traditional Chinese medicine preparation Xindi soft capsule on rat model of acute blood stasis: a urinary metabonomics study based on liquid chromatography-mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008 , 873, 151-8	3.2	82
389	Current state-of-the-art of nontargeted metabolomics based on liquid chromatography-mass spectrometry with special emphasis in clinical applications. <i>Journal of Chromatography A</i> , 2014 , 1374, 1-13	4.5	81
388	Metabonomics study of atherosclerosis rats by ultra fast liquid chromatography coupled with ion trap-time of flight mass spectrometry. <i>Talanta</i> , 2009 , 79, 836-44	6.2	81
387	Eicosapentaenoic acid modifies lipid composition in caveolae and induces translocation of endothelial nitric oxide synthase. <i>Biochimie</i> , 2007 , 89, 169-77	4.6	80
386	EXTH-03. TRIPTOLIDE, A NOVEL THERAPEUTIC AGENT FOR IDH1-MUTATED GLIOMA. <i>Neuro-Oncology</i> , 2019 , 21, vi82-vi83	1	78
385	Circulating lysophosphatidylcholines are markers of a metabolically benign nonalcoholic fatty liver. <i>Diabetes Care</i> , 2013 , 36, 2331-8	14.6	77
384	Facile synthesis of boronate-decorated polyethyleneimine-grafted hybrid magnetic nanoparticles for the highly selective enrichment of modified nucleosides and ribosylated metabolites. <i>Analytical Chemistry</i> , 2013 , 85, 11585-92	7.8	77
383	Recent advances in development and characterization of stationary phases for hydrophilic interaction chromatography. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 81, 23-33	14.6	77
382	Metabolic profiling of transgenic rice with cryIaC and sck genes: an evaluation of unintended effects at metabolic level by using GC-FID and GC-MS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009 , 877, 725-32	3.2	76

381	n-3 polyunsaturated fatty acids prevent disruption of epithelial barrier function induced by proinflammatory cytokines. <i>Molecular Immunology</i> , 2008 , 45, 1356-65	4.3	76
380	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. <i>Journal of Chromatography A</i> , 2008 , 1204, 28-34	4.5	76
379	Clinical significance and prognostic value of urinary nucleosides in breast cancer patients. <i>Clinical Biochemistry</i> , 2005 , 38, 24-30	3.5	75
378	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
377	Metabolomic analysis reveals that carnitines are key regulatory metabolites in phase transition of the locusts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 3259-63	11.5	74
376	Analysis of sulfur-containing compounds in crude oils by comprehensive two-dimensional gas chromatography with sulfur chemiluminescence detection. <i>Journal of Separation Science</i> , 2004 , 27, 691-8	8.4	74
375	Strategy for metabonomics research based on high-performance liquid chromatography and liquid chromatography coupled with tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2005 , 1084, 214-21	4.5	73
374	Recent methodology in the phytochemical analysis of ginseng. <i>Phytochemical Analysis</i> , 2008 , 19, 2-16	3.4	72
373	Development and evaluation of new imidazolium-based zwitterionic stationary phases for hydrophilic interaction chromatography. <i>Journal of Chromatography A</i> , 2013 , 1286, 137-45	4.5	71
372	Systems biology guided by Chinese medicine reveals new markers for sub-typing rheumatoid arthritis patients. <i>Journal of Clinical Rheumatology</i> , 2009 , 15, 330-7	1.1	71
371	Docosahexaenoic acid affects endothelial nitric oxide synthase in caveolae. <i>Archives of Biochemistry and Biophysics</i> , 2007 , 466, 250-9	4.1	71
370	Development of a High Coverage Pseudotargeted Lipidomics Method Based on Ultra-High Performance Liquid Chromatography-Mass Spectrometry. <i>Analytical Chemistry</i> , 2018 , 90, 7608-7616	7.8	71
369	Exploration of the serum metabolite signature in patients with rheumatoid arthritis using gas chromatography-mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 127, 60-7	3.5	70
368	Mass-spectrometry-based metabolomics analysis for foodomics. <i>TrAC - Trends in Analytical Chemistry</i> , 2013 , 52, 36-46	14.6	70
367	Study of the phase I and phase II metabolism of nephrotoxin aristolochic acid by liquid chromatography/tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2006 , 20, 1755-60	2.2	70
366	Stress-induced epinephrine enhances lactate dehydrogenase A and promotes breast cancer stem-like cells. <i>Journal of Clinical Investigation</i> , 2019 , 129, 1030-1046	15.9	68
365	Plasma metabonomics study of rheumatoid arthritis and its Chinese medicine subtypes by using liquid chromatography and gas chromatography coupled with mass spectrometry. <i>Molecular BioSystems</i> , 2012 , 8, 1535-43		68
364	A comparative study of volatile components in green, oolong and black teas by using comprehensive two-dimensional gas chromatography-time-of-flight mass spectrometry and multivariate data analysis. <i>Journal of Chromatography A</i> , 2013 , 1313, 245-52	4.5	67

363	Genetic, proteomic and metabolic analysis of the regulation of energy storage in rice seedlings in response to drought. <i>Proteomics</i> , 2011 , 11, 4122-38	4.8	67
362	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
361	Evaluation of ionic liquid stationary phases for one dimensional gas chromatography-mass spectrometry and comprehensive two dimensional gas chromatographic analyses of fatty acids in marine biota. <i>Journal of Chromatography A</i> , 2011 , 1218, 3056-63	4.5	66
360	Metabolomics study on the effects of the ginsenoside Rg3 in a beta-cyclodextrin-based formulation on tumor-bearing rats by a fully automatic hydrophilic interaction/reversed-phase column-switching HPLC-ESI-MS approach. <i>Analytical Chemistry</i> , 2008 , 80, 4680-8	7.8	66
359	Exercise-Induced Secretion of FGF21 and Follistatin Are Blocked by Pancreatic Clamp and Impaired in Type 2 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016 , 101, 2816-25	5.6	66
358	Next-generation transgenic cotton: pyramiding RNAi and Bt counters insect resistance. <i>Plant Biotechnology Journal</i> , 2017 , 15, 1204-1213	11.6	65
357	Alkaloid profiling of the Chinese herbal medicine Fuzi by combination of matrix-assisted laser desorption ionization mass spectrometry with liquid chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2009 , 1216, 2169-78	4.5	65
356	Analysis of catecholamines and their metabolites in adrenal gland by liquid chromatography tandem mass spectrometry. <i>Analytica Chimica Acta</i> , 2008 , 609, 192-200	6.6	65
355	Urinary metabolomic study of lung cancer by a fully automatic hyphenated hydrophilic interaction/RPLC-MS system. <i>Journal of Separation Science</i> , 2010 , 33, 1495-503	3.4	64
354	Study of induction chemotherapy efficacy in oral squamous cell carcinoma using pseudotargeted metabolomics. <i>Journal of Proteome Research</i> , 2014 , 13, 1994-2004	5.6	63
353	A novel surface-confined glucaminium-based ionic liquid stationary phase for hydrophilic interaction/anion-exchange mixed-mode chromatography. <i>Journal of Chromatography A</i> , 2014 , 1360, 240-7	4.5	63
352	Serum metabolic profiling study of lung cancer using ultra high performance liquid chromatography/quadrupole time-of-flight mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014 , 966, 147-53	3.2	63
351	Effects of exogenous methyl jasmonate on artemisinin biosynthesis and secondary metabolites in <i>Artemisia annua</i> L.. <i>Industrial Crops and Products</i> , 2010 , 31, 214-218	5.9	63
350	Serum metabolomics study of polycystic ovary syndrome based on liquid chromatography-mass spectrometry. <i>Journal of Proteome Research</i> , 2014 , 13, 1101-11	5.6	61
349	Study of traditional Chinese medicine volatile oils from different geographical origins by comprehensive two-dimensional gas chromatography-time-of-flight mass spectrometry (GCxGC-TOFMS) in combination with multivariate analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007 , 43, 1721-7	3.5	61
348	Development of a comprehensive two-dimensional hydrophilic interaction chromatography/quadrupole time-of-flight mass spectrometry system and its application in separation and identification of saponins from <i>Quillaja saponaria</i> . <i>Journal of Chromatography A</i> , 2008 , 1181, 51-9	4.5	61
347	Global Metabolic Profiling Identifies a Pivotal Role of Proline and Hydroxyproline Metabolism in Supporting Hypoxic Response in Hepatocellular Carcinoma. <i>Clinical Cancer Research</i> , 2018 , 24, 474-485	12.9	60
346	Metabolic profiling based on LC/MS to evaluate unintended effects of transgenic rice with cry1Ac and sck genes. <i>Plant Molecular Biology</i> , 2012 , 78, 477-87	4.6	60

345	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
344	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}	4.7	60
343	Integrated GC-MS and LC-MS plasma metabonomics analysis of ankylosing spondylitis. <i>Analyst, The</i> , 2008 , 133, 1214-20	5	60
342	Normal and modified urinary nucleosides represent novel biomarkers for colorectal cancer diagnosis and surgery monitoring. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2005 , 20, 1913-19	4.9	60
341	Type 2 diabetes alters metabolic and transcriptional signatures of glucose and amino acid metabolism during exercise and recovery. <i>Diabetologia</i> , 2015 , 58, 1845-54	10.3	59
340	Simultaneous separation of hydrophilic and hydrophobic compounds by using an online HILIC-RPLC system with two detectors. <i>Journal of Separation Science</i> , 2008 , 31, 1564-72	3.4	59
339	Systems toxicology study of doxorubicin on rats using ultra performance liquid chromatography coupled with mass spectrometry based metabolomics. <i>Metabolomics</i> , 2009 , 5, 407-418	4.7	58
338	A GC-based metabonomics investigation of type 2 diabetes by organic acids metabolic profile. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007 , 850, 236-40 ²	2.2	58
337	Urinary nucleosides as biological markers for patients with colorectal cancer. <i>World Journal of Gastroenterology</i> , 2005 , 11, 3871-6	5.6	58
336	Noninvasive detection of colorectal cancer by analysis of exhaled breath. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 4757-63	4.4	57
335	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. <i>Journal of Chromatography A</i> , 2012 , 1255, 228-36	4.5	57
334	Gut microbiome-related effects of berberine and probiotics on type 2 diabetes (the PREMOTE study). <i>Nature Communications</i> , 2020 , 11, 5015	17.4	57
333	Recent development of ionic liquid stationary phases for liquid chromatography. <i>Journal of Chromatography A</i> , 2015 , 1420, 1-15	4.5	56
332	Analysis of urinary metabolic signatures of early hepatocellular carcinoma recurrence after surgical removal using gas chromatography-mass spectrometry. <i>Journal of Proteome Research</i> , 2012 , 11, 4361-72 ^{5.6}	5.6	56
331	Application of fuzzy c-means clustering in data analysis of metabolomics. <i>Analytical Chemistry</i> , 2009 , 81, 4468-75	7.8	56
330	Application of comprehensive two-dimensional gas chromatography-time-of-flight mass spectrometry in the analysis of volatile oil of traditional Chinese medicines. <i>Journal of Chromatography A</i> , 2004 , 1034, 199-205	4.5	56
329	Characterization of rheumatoid arthritis subtypes using symptom profiles, clinical chemistry and metabolomics measurements. <i>PLoS ONE</i> , 2012 , 7, e44331	3.7	56
328	Metabolomics and traditional Chinese medicine. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 61, 207-214 ^{14.6}	14.6	54

- 327 Insulin sensitivity is reflected by characteristic metabolic fingerprints--a Fourier transform mass spectrometric non-targeted metabolomics approach. *PLoS ONE*, **2010**, 5, e13317 3.7 54
- 326 Systems biology-based diagnostic principles as pillars of the bridge between Chinese and Western medicine. *Planta Medica*, **2010**, 76, 2036-47 3.1 54
- 325 Plasma lipidomics reveals potential lipid markers of major depressive disorder. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 6497-507 4.4 54
- 324 Analysis of *Artemisia annua* L. volatile oil by comprehensive two-dimensional gas chromatography time-of-flight mass spectrometry. *Journal of Chromatography A*, **2007**, 1150, 50-3 4.5 53
- 323 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 3.2 53
- 322 Exhaled volatile organic compounds as lung cancer biomarkers during one-lung ventilation. *Scientific Reports*, **2014**, 4, 7312 4.9 52
- 321 Comprehensive Strategy to Construct In-House Database for Accurate and Batch Identification of Small Molecular Metabolites. *Analytical Chemistry*, **2018**, 90, 7635-7643 7.8 52
- 320 A novel stop-flow two-dimensional liquid chromatography-mass spectrometry method for lipid analysis. *Journal of Chromatography A*, **2013**, 1321, 65-72 4.5 51
- 319 Serum metabolic profiling study of hepatocellular carcinoma infected with hepatitis B or hepatitis C virus by using liquid chromatography-mass spectrometry. *Journal of Proteome Research*, **2012**, 11, 5433-42 5.6 51
- 318 Retention Time Prediction Improves Identification in Nontargeted Lipidomics Approaches. *Analytical Chemistry*, **2015**, 87, 7698-704 7.8 50
- 317 Current and future perspectives of functional metabolomics in disease studies-A review. *Analytica Chimica Acta*, **2018**, 1037, 41-54 6.6 50
- 316 Effect of bisphenol A on rat metabolic profiling studied by using capillary electrophoresis time-of-flight mass spectrometry. *Environmental Science & Technology*, **2013**, 47, 7457-65 10.3 50
- 315 Study of urinary nucleosides as biological marker in cancer patients analyzed by micellar electrokinetic capillary chromatography. *Electrophoresis*, **2002**, 23, 4104-9 3.6 50
- 314 Structural identification of human blood phospholipids using liquid chromatography/quadrupole-linear ion trap mass spectrometry. *Analytica Chimica Acta*, **2004**, 525, 1-10 6.6 49
- 313 Determination of urinary oxidative DNA damage marker 8-hydroxy-2'-deoxyguanosine and the association with cigarette smoking. *Talanta*, **2004**, 63, 617-23 6.2 49
- 312 Blood volatile compounds as biomarkers for colorectal cancer. *Cancer Biology and Therapy*, **2014**, 15, 200-6 4.6 48
- 311 Application of plasma lipidomics in studying the response of patients with essential hypertension to antihypertensive drug therapy. *Molecular BioSystems*, **2011**, 7, 3271-9 4.8
- 310 Determination of radix ginseng volatile oils at different ages by comprehensive two-dimensional gas chromatography/time-of-flight mass spectrometry. *Journal of Separation Science*, **2008**, 31, 3451-7 3.4 48

309	Effect of the traditional Chinese medicine tongxinluo on endothelial dysfunction rats studied by using urinary metabolomics based on liquid chromatography-mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011 , 56, 86-92	3.5	47
308	Urinary profiling investigation of metabolites with cis-diol structure from cancer patients based on UPLC-MS and HPLC-MS as well as multivariate statistical analysis. <i>Journal of Separation Science</i> , 2006 , 29, 2444-51	3.4	47
307	Comprehensive hydrophilic interaction and ion-pair reversed-phase liquid chromatography for analysis of di- to deca-oligonucleotides. <i>Journal of Chromatography A</i> , 2012 , 1255, 237-43	4.5	46
306	Metabolomics study of urine and plasma in depression and excess fatigue rats by ultra fast liquid chromatography coupled with ion trap-time of flight mass spectrometry. <i>Molecular BioSystems</i> , 2010 , 6, 852-61		46
305	Bioconversion of red ginseng saponins in the gastro-intestinal tract in vitro model studied by high-performance liquid chromatography-high resolution Fourier transform ion cyclotron resonance mass spectrometry. <i>Journal of Chromatography A</i> , 2009 , 1216, 2195-203	4.5	46
304	Artificial neural network classification based on capillary electrophoresis of urinary nucleosides for the clinical diagnosis of tumors. <i>Journal of Chromatography A</i> , 1998 , 828, 489-96	4.5	46
303	Triptolide suppresses IDH1-mutated malignancy via Nrf2-driven glutathione metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 9964-9972	11.5	46
302	Nontargeted screening of chemical contaminants and illegal additives in food based on liquid chromatography-high resolution mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 96, 89-98	14.6	45
301	Preparation and evaluation of a novel hybrid monolithic column based on pentafluorobenzyl imidazolium bromide ionic liquid. <i>Journal of Chromatography A</i> , 2015 , 1375, 101-9	4.5	45
300	Urinary hydrophilic and hydrophobic metabolic profiling based on liquid chromatography-mass spectrometry methods: Differential metabolite discovery specific to ovarian cancer. <i>Electrophoresis</i> , 2012 , 33, 3361-9	3.6	45
299	A method for handling metabolomics data from liquid chromatography/mass spectrometry: combinational use of support vector machine recursive feature elimination, genetic algorithm and random forest for feature selection. <i>Metabolomics</i> , 2011 , 7, 549-558	4.7	45
298	Quantitative determination of compounds in tobacco essential oils by comprehensive two-dimensional gas chromatography coupled to time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2005 , 1086, 107-14	4.5	45
297	Development of a plasma pseudotargeted metabolomics method based on ultra-high-performance liquid chromatography-mass spectrometry. <i>Nature Protocols</i> , 2020 , 15, 2519-2537	18.8	44
296	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
295	Determination of urinary 8-hydroxy-2'-deoxyguanosine by two approaches-capillary electrophoresis and GC/MS: an assay for in vivo oxidative DNA damage in cancer patients. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005 , 827, 83-7	3.2	44
294	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
293	Lipidomics analysis reveals efficient storage of hepatic triacylglycerides enriched in unsaturated fatty acids after one bout of exercise in mice. <i>PLoS ONE</i> , 2010 , 5, e13318	3.7	43
292	Comprehensive investigation of tobacco leaves during natural early senescence via multi-platform metabolomics analyses. <i>Scientific Reports</i> , 2016 , 6, 37976	4.9	43

291	Mass-spectrometry-based microbial metabolomics: recent developments and applications. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 669-80	4.4	42
290	MYC-driven inhibition of the glutamate-cysteine ligase promotes glutathione depletion in liver cancer. <i>EMBO Reports</i> , 2017 , 18, 569-585	6.5	40
289	The lipid profile of brown adipose tissue is sex-specific in mice. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014 , 1842, 1563-70	5	40
288	Analysis of bacterial fatty acids by flow modulated comprehensive two-dimensional gas chromatography with parallel flame ionization detector/mass spectrometry. <i>Journal of Chromatography A</i> , 2010 , 1217, 4448-53	4.5	40
287	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
286	Volatile organic metabolites identify patients with breast cancer, cyclomastopathy, and mammary gland fibroma. <i>Scientific Reports</i> , 2014 , 4, 5383	4.9	39
285	Serum metabolic profiling of abnormal savda by liquid chromatography/mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008 , 871, 322-7 ³⁻²		39
284	Determination of monoamines in urine by capillary electrophoresis with field-amplified sample stacking and amperometric detection. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2006 , 835, 55-61	3.2	39
283	Simultaneous metabolomics and lipidomics analysis based on novel heart-cutting two-dimensional liquid chromatography-mass spectrometry. <i>Analytica Chimica Acta</i> , 2017 , 966, 34-40	6.6	38
282	Metabolic phenotypes and the gut microbiota in response to dietary resistant starch type 2 in normal-weight subjects: a randomized crossover trial. <i>Scientific Reports</i> , 2019 , 9, 4736	4.9	38
281	Urinary metabolic profiling of colorectal carcinoma based on online affinity solid phase extraction-high performance liquid chromatography and ultra performance liquid chromatography-mass spectrometry. <i>Molecular BioSystems</i> , 2010 , 6, 1947-55		38
280	Metabolomics study of diabetic retinopathy using gas chromatography-mass spectrometry: a comparison of stages and subtypes diagnosed by Western and Chinese medicine. <i>Molecular BioSystems</i> , 2011 , 7, 2228-37		38
279	Stable isotope-assisted lipidomics combined with nontargeted isotopomer filtering, a tool to unravel the complex dynamics of lipid metabolism. <i>Analytical Chemistry</i> , 2013 , 85, 4651-7	7.8	37
278	The Application of Chromatography-Mass Spectrometry: Methods to Metabonomics. <i>Chromatographia</i> , 2009 , 69, 23-32	2.1	37
277	Analysis of acetylcholine, choline and butyrobetaine in human liver tissues by hydrophilic interaction liquid chromatography-tandem mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008 , 47, 870-5	3.5	37
276	Application of probabilistic neural network in the clinical diagnosis of cancers based on clinical chemistry data. <i>Analytica Chimica Acta</i> , 2002 , 471, 77-86	6.6	37
275	Nontargeted modification-specific metabolomics study based on liquid chromatography-high-resolution mass spectrometry. <i>Analytical Chemistry</i> , 2014 , 86, 9146-53	7.8	36
274	Accelerated solvent extraction for GC-based tobacco fingerprinting and its comparison with simultaneous distillation and extraction. <i>Talanta</i> , 2010 , 81, 650-6	6.2	36

273	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
272	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
271	Serum lipid profiling of patients with chronic hepatitis B, cirrhosis, and hepatocellular carcinoma by ultra fast LC/IT-TOF MS. <i>Electrophoresis</i> , 2013 , 34, 2848-56	3.6	36
270	Interpretation of comprehensive two-dimensional gas chromatography data using advanced chemometrics. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 53, 150-166	14.6	35
269	Release of lysophospholipid 'find-me' signals during apoptosis requires the ATP-binding cassette transporter A1. <i>Autoimmunity</i> , 2012 , 45, 568-73	3	35
268	Metabolomic identification of potential phospholipid biomarkers for chronic glomerulonephritis by using high performance liquid chromatography-mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007 , 860, 134-40	3.2	35
267	On-line stop-flow two-dimensional liquid chromatography-mass spectrometry method for the separation and identification of triterpenoid saponins from ginseng extract. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 331-41	4.4	34
266	Serum or plasma, what is the difference? Investigations to facilitate the sample material selection decision making process for metabolomics studies and beyond. <i>Analytica Chimica Acta</i> , 2018 , 1037, 293-300	6.6	34
265	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
264	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
263	Serum metabolomics study and eicosanoid analysis of childhood atopic dermatitis based on liquid chromatography-mass spectrometry. <i>Journal of Proteome Research</i> , 2014 , 13, 5715-23	5.6	34
262	On-line two dimensional liquid chromatography/mass spectrometry for the analysis of triacylglycerides in peanut oil and mouse tissue. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012 , 895-896, 48-55	3.2	34
261	Ion fusion of high-resolution LC-MS-based metabolomics data to discover more reliable biomarkers. <i>Analytical Chemistry</i> , 2014 , 86, 3793-800	7.8	33
260	A fully automated system with on-line micro solid-phase extraction combined with capillary liquid chromatography-tandem mass spectrometry for high throughput analysis of microcystins and nodularin-R in tap water and lake water. <i>Journal of Chromatography A</i> , 2011 , 1218, 1743-8	4.5	33
259	A random forest of combined features in the classification of cut tobacco based on gas chromatography fingerprinting. <i>Talanta</i> , 2010 , 82, 1571-5	6.2	33
258	Multidimensional liquid chromatography-mass spectrometry for metabolomic and lipidomic analyses. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 120, 115302	14.6	33
257	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
256	Metabolomics Study of Roux-en-Y Gastric Bypass Surgery (RYGB) to Treat Type 2 Diabetes Patients Based on Ultraperformance Liquid Chromatography-Mass Spectrometry. <i>Journal of Proteome Research</i> , 2016 , 15, 1288-99	5.6	32

255	Deconvolution of overlapped peaks based on the exponentially modified Gaussian model in comprehensive two-dimensional gas chromatography. <i>Journal of Chromatography A</i> , 2005 , 1086, 160-4	4.5	32
254	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
253	USP10 suppresses tumor progression by inhibiting mTOR activation in hepatocellular carcinoma. <i>Cancer Letters</i> , 2018 , 436, 139-148	9.9	31
252	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. <i>Journal of Chromatography A</i> , 2013 , 1320, 103-10	4.5	31
251	Exhaled breath volatile biomarker analysis for thyroid cancer. <i>Translational Research</i> , 2015 , 166, 188-95	11	31
250	Ultra-high capacity liquid chromatography chip/quadrupole time-of-flight mass spectrometry for pharmaceutical analysis. <i>Journal of Chromatography A</i> , 2011 , 1218, 3669-74	4.5	31
249	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
248	Application of capillary zone electrophoresis in the separation and determination of the curcuminoids in urine. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005 , 38, 133-8	3.5	31
247	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
246	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
245	Comprehensive two-dimensional chromatography for analyzing complex samples: recent new advances. <i>Analytical Methods</i> , 2014 , 6, 7112-7123	3.2	30
244	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. <i>Journal of Proteome Research</i> , 2013 , 12, 5072-83	5.6	30
243	Nanoparticle Conjugation of Ginsenoside Rg3 Inhibits Hepatocellular Carcinoma Development and Metastasis. <i>Small</i> , 2020 , 16, e1905233	11	30
242	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
241	Alteration of leaf metabolism in Bt-transgenic rice (<i>Oryza sativa</i> L.) and its wild type under insecticide stress. <i>Journal of Proteome Research</i> , 2012 , 11, 4351-60	5.6	29
240	Method for liver tissue metabolic profiling study and its application in type 2 diabetic rats based on ultra performance liquid chromatography-mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011 , 879, 961-7	3.2	29
239	Determination of urinary nucleosides by direct injection and coupled-column high-performance liquid chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005 , 819, 85-90	3.2	29
238	Recent advances in analytical strategies for mass spectrometry-based lipidomics. <i>Analytica Chimica Acta</i> , 2020 , 1137, 156-169	6.6	29

237	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
236	New advances in analytical methods for mass spectrometry-based large-scale metabolomics study. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 121, 115665	14.6	28
235	Gas chromatography-mass spectrometric method for metabolic profiling of tobacco leaves. <i>Journal of Separation Science</i> , 2011 , 34, 1447-54	3.4	28
234	Evaluation of automated sample preparation, retention time locked gas chromatography-mass spectrometry and data analysis methods for the metabolomic study of Arabidopsis species. <i>Journal of Chromatography A</i> , 2011 , 1218, 3247-54	4.5	28
233	Analysis of coenzyme Q(10) in human plasma by column-switching liquid chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004 , 805, 297-301	3.2	28
232	Capillary electrophoresis with end-column amperometric detection of urinary 8-hydroxy-2'-deoxyguanosine. <i>Electrophoresis</i> , 2003 , 24, 1411-5	3.6	28
231	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
230	Surface-bonded amide-functionalized imidazolium ionic liquid as stationary phase for hydrophilic interaction liquid chromatography. <i>Journal of Chromatography A</i> , 2018 , 1559, 141-148	4.5	27
229	Serum metabolic profiling and features of papillary thyroid carcinoma and nodular goiter. <i>Molecular BioSystems</i> , 2011 , 7, 2608-14		27
228	Urinary metabolomics study in a rat model in response to protein-energy malnutrition by using gas chromatography-mass spectrometry and liquid chromatography-mass spectrometry. <i>Molecular BioSystems</i> , 2010 , 6, 2157-63		27
227	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
226	Comparison of comprehensive two-dimensional gas chromatography/time-of-flight mass spectrometry and gas chromatography-mass spectrometry for the analysis of tobacco essential oils. <i>Analytica Chimica Acta</i> , 2005 , 545, 224-231	6.6	27
225	Effect of a traditional Chinese medicine prescription Quzhuotongbi decoction on hyperuricemia model rats studied by using serum metabolomics based on gas chromatography-mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016 , 1026, 272-278	3.2	26
224	Study of urinary steroid hormone disorders: difference between hepatocellular carcinoma in early stage and cirrhosis. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 4325-35	4.4	26
223	Effect of Allium macrostemon on a rat model of depression studied by using plasma lipid and acylcarnitine profiles from liquid chromatography/mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014 , 89, 122-9	3.5	26
222	Determination of arsenic species by capillary zone electrophoresis with large-volume field-amplified stacking injection. <i>Electrophoresis</i> , 2001 , 22, 3567-72	3.6	26
221	Application of LC-MS-based metabolomics method in differentiating septic survivors from non-survivors. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 7641-7649	4.4	26
220	Purity matters: A workflow for the valid high-resolution lipid profiling of mitochondria from cell culture samples. <i>Scientific Reports</i> , 2016 , 6, 21107	4.9	25

219	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
218	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
217	Determination of retention indices in constant inlet pressure mode and conversion among different column temperature conditions in comprehensive two-dimensional gas chromatography. <i>Journal of Chromatography A</i> , 2007 , 1150, 28-36	4.5	25
216	Phenotype differentiation of three E. coli strains by GC-FID and GC-MS based metabolomics. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008 , 871, 220-226	3.2	25
215	Plasma Lipidomics Investigation of Hemodialysis Effects by Using Liquid Chromatography-Mass Spectrometry. <i>Journal of Proteome Research</i> , 2016 , 15, 1986-94	5.6	25
214	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
213	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
212	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
211	Determination of fentanyl in human breath by solid-phase microextraction and gas chromatography-mass spectrometry. <i>Microchemical Journal</i> , 2009 , 91, 149-152	4.8	24
210	ORP4L Extracts and Presents PIP from Plasma Membrane for PLCB Catalysis: Targeting It Eradicates Leukemia Stem Cells. <i>Cell Reports</i> , 2019 , 26, 2166-2177.e9	10.6	24
209	GC/MS-based metabolomic studies reveal key roles of glycine in regulating silk synthesis in silkworm, <i>Bombyx mori</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2015 , 57, 41-50	4.5	23
208	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
207	Lysophosphatidylcholines activate PPAR α and protect human skeletal muscle cells from lipotoxicity. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016 , 1861, 1980-1992	5	23
206	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
205	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
204	Therapeutic effect of Yunnan Baiyao on rheumatoid arthritis was partially due to regulating arachidonic acid metabolism in osteoblasts. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012 , 59, 130-7	3.5	22
203	Plasma phospholipid metabolic profiling and biomarkers of mouse IgA nephropathy. <i>Metabolomics</i> , 2006 , 2, 95-104	4.7	22
202	Serum metabolomics study of the acute graft rejection in human renal transplantation based on liquid chromatography-mass spectrometry. <i>Journal of Proteome Research</i> , 2014 , 13, 2659-67	5.6	21

201	Synthesis of a new type of echinus-like Fe ₃ O ₄ @TiO ₂ core-shell-structured microspheres and their applications in selectively enriching phosphopeptides and removing phospholipids. <i>Journal of Chromatography A</i> , 2013 , 1275, 9-16	4.5	21
200	Production and release of acylcarnitines by primary myotubes reflect the differences in fasting fat oxidation of the donors. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013 , 98, E1137-42	5.6	21
199	Classification and differential metabolite discovery of liver diseases based on plasma metabolic profiling and support vector machines. <i>Journal of Separation Science</i> , 2011 , 34, 3029-36	3.4	21
198	Secondary metabolic profiling and artemisinin biosynthesis of two genotypes of <i>Artemisia annua</i> . <i>Planta Medica</i> , 2009 , 75, 1625-33	3.1	21
197	Effect of <i>Helicobacter pylori</i> infection on p53 expression of gastric mucosa and adenocarcinoma with microsatellite instability. <i>World Journal of Gastroenterology</i> , 2005 , 11, 4363-6	5.6	21
196	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
195	Metabolomics for tumor marker discovery and identification based on chromatography-mass spectrometry. <i>Expert Review of Molecular Diagnostics</i> , 2013 , 13, 339-48	3.8	19
194	Linking biological activity with herbal constituents by systems biology-based approaches: effects of <i>Panax ginseng</i> in type 2 diabetic Goto-Kakizaki rats. <i>Molecular BioSystems</i> , 2011 , 7, 3094-103		19
193	Rapid detection of <i>Staphylococcus aureus</i> by a combination of monoclonal antibody-coated latex and capillary electrophoresis. <i>Electrophoresis</i> , 2006 , 27, 1784-9	3.6	19
192	Comprehensive metabolic profiling of Parkinson's disease by liquid chromatography-mass spectrometry. <i>Molecular Neurodegeneration</i> , 2021 , 16, 4	19	19
191	A high throughput metabolomics method and its application in female serum samples in a normal menstrual cycle based on liquid chromatography-mass spectrometry. <i>Talanta</i> , 2018 , 185, 483-490	6.2	18
190	Lipid profiling reveals different therapeutic effects of metformin and glipizide in patients with type 2 diabetes and coronary artery disease. <i>Diabetes Care</i> , 2014 , 37, 2804-12	14.6	18
189	A novel strategy to evaluate the quality of traditional Chinese medicine based on the correlation analysis of chemical fingerprint and biological effect. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013 , 83, 57-64	3.5	18
188	Metabonomics study of the acute graft rejection in rat renal transplantation using reversed-phase liquid chromatography and hydrophilic interaction chromatography coupled with mass spectrometry. <i>Molecular BioSystems</i> , 2012 , 8, 871-8		18
187	Capillary electrophoretic analysis of arsenic species with indirect laser induced fluorescence detection. <i>Journal of Separation Science</i> , 2002 , 25, 155-159	3.4	18
186	Hypotaurine evokes a malignant phenotype in glioma through aberrant hypoxic signaling. <i>Oncotarget</i> , 2016 , 7, 15200-14	3.3	18
185	Serum metabolome and targeted bile acid profiling reveals potential novel biomarkers for drug-induced liver injury. <i>Medicine (United States)</i> , 2019 , 98, e16717	1.8	18
184	Modified metabolites mapping by liquid chromatography-high resolution mass spectrometry using full scan/all ion fragmentation/neutral loss acquisition. <i>Journal of Chromatography A</i> , 2019 , 1583, 80-87	4.5	18

183	Online Three Dimensional Liquid Chromatography/Mass Spectrometry Method for the Separation of Complex Samples. <i>Analytical Chemistry</i> , 2017 , 89, 1433-1438	7.8	17
182	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
181	Pseudotargeted Method Based on Parallel Column Two-Dimensional Liquid Chromatography-Mass Spectrometry for Broad Coverage of Metabolome and Lipidome. <i>Analytical Chemistry</i> , 2020 , 92, 6043-6050	7.8	17
180	Quality Control of Serum and Plasma by Quantification of (4E,14Z)-Sphingadienine-C18-1-Phosphate Uncovers Common Preanalytical Errors During Handling of Whole Blood. <i>Clinical Chemistry</i> , 2018 , 64, 810-819	5.5	17
179	Serum metabolomics study of Traditional Chinese medicine formula intervention to polycystic ovary syndrome. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 120, 127-33	3.5	17
178	Analysis of free amino acids in flue-cured tobacco leaves using ultra-high performance liquid chromatography with single quadrupole mass spectrometry. <i>Journal of Separation Science</i> , 2013 , 36, 2868-77	3.4	17
177	Identification and determination of glycosides in tobacco leaves by liquid chromatography with atmospheric pressure chemical ionization tandem mass spectrometry. <i>Journal of Separation Science</i> , 2007 , 30, 289-96	3.4	17
176	Effect of PA-MSHA vaccine on plasma phospholipids metabolic profiling and the ratio of Th2/Th1 cells within immune organ of mouse IgA nephropathy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007 , 43, 646-54	3.5	17
175	Metabolomics of lung cancer: Analytical platforms and their applications. <i>Journal of Separation Science</i> , 2020 , 43, 120-133	3.4	17
174	Linking bioenergetic function of mitochondria to tissue-specific molecular fingerprints. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019 , 317, E374-E387	6	16
173	Lipidome and metabolome analysis of fresh tobacco leaves in different geographical regions using liquid chromatography-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 5009-20	4.4	16
172	Single-cell Metabolomics Analysis by Microfluidics and Mass Spectrometry: Recent New Advances. <i>Journal of Analysis and Testing</i> , 2020 , 4, 198-209	3.2	16
171	Molecular interaction study of flavonoids with human serum albumin using native mass spectrometry and molecular modeling. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 827-837	4.4	16
170	Free amino acids and small molecular acids profiling of marine microalga <i>Isochrysis zhangjiangensis</i> under nitrogen deficiency. <i>Algal Research</i> , 2016 , 13, 207-217	5	16
169	Plasma disturbance of phospholipid metabolism in major depressive disorder by integration of proteomics and metabolomics. <i>Neuropsychiatric Disease and Treatment</i> , 2018 , 14, 1451-1461	3.1	16
168	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. <i>Journal of Separation Science</i> , 2014 , 37, 1067-74	3.4	16
167	A metabolomics-based method for studying the effect of yfcC gene in <i>Escherichia coli</i> on metabolism. <i>Analytical Biochemistry</i> , 2014 , 451, 48-55	3.1	16
166	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

165	Comprehensive Analysis of Short-, Medium-, and Long-Chain Acyl-Coenzyme A by Online Two-Dimensional Liquid Chromatography/Mass Spectrometry. <i>Analytical Chemistry</i> , 2017 , 89, 12902-12908	7.8	16
164	Optimization of a GC-MS metabolic fingerprint method and its application in characterizing engineered bacterial metabolic shift. <i>Journal of Separation Science</i> , 2009 , 32, 2281-8	3.4	16
163	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. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008 , 47, 343-50	3.5	16
162	Synthesis of silica-based benzeneboronic acid affinity materials and application as pre-column in coupled-column high-performance liquid chromatography. <i>Analytica Chimica Acta</i> , 2006 , 580, 181-7	6.6	16
161	Multiplatform Metabolomics Reveals Novel Serum Metabolite Biomarkers in Diabetic Retinopathy Subjects. <i>Advanced Science</i> , 2020 , 7, 2001714	13.6	16
160	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
159	Metabolic Profiling Reveals Biochemical Pathways and Potential Biomarkers of Spinocerebellar Ataxia 3. <i>Frontiers in Molecular Neuroscience</i> , 2019 , 12, 159	6.1	15
158	Serum Monounsaturated Triacylglycerol Predicts Steatohepatitis in Patients with Non-alcoholic Fatty Liver Disease and Chronic Hepatitis B. <i>Scientific Reports</i> , 2017 , 7, 10517	4.9	15
157	Facile synthesis of Fe ^{III} @polyethyleneimine modified with 4-formylphenylboronic acid for the highly selective extraction of major catecholamines from human urine. <i>Journal of Separation Science</i> , 2015 , 38, 2857-64	3.4	15
156	Identification of phospholipid structures in human blood by direct-injection quadrupole-linear ion-trap mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2005 , 19, 2443-53	2.2	15
155	Metabolomics profiling of metformin-mediated metabolic reprogramming bypassing AMPK β . <i>Metabolism: Clinical and Experimental</i> , 2019 , 91, 18-29	12.7	15
154	A multi-omics investigation of the molecular characteristics and classification of six metabolic syndrome relevant diseases. <i>Theranostics</i> , 2020 , 10, 2029-2046	12.1	14
153	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
152	Investigation on response of the metabolites in tricarboxylic acid cycle of Escherichia coli and Pseudomonas aeruginosa to antibiotic perturbation by capillary electrophoresis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007 , 44, 180-7	3.5	14
151	Rapid characterization of the sucrose esters from oriental tobacco using liquid chromatography/ion trap mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2006 , 20, 2816-22	2.2	14
150	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
149	Rapid lipidomic profiling based on ultra-high performance liquid chromatography-mass spectrometry and its application in diabetic retinopathy. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 3585-3594	4.4	13
148	Muscle and liver-specific alterations in lipid and acylcarnitine metabolism after a single bout of exercise in mice. <i>Scientific Reports</i> , 2016 , 6, 22218	4.9	13

147	Therapeutic effect and autophagy regulation of myriocin in nonalcoholic steatohepatitis. <i>Lipids in Health and Disease</i> , 2019 , 18, 179	4.4	13
146	Lipidomics reveals multiple pathway effects of a multi-components preparation on lipid biochemistry in ApoE*3Leiden.CETP mice. <i>PLoS ONE</i> , 2012 , 7, e30332	3.7	13
145	Profiling and association mapping of grain metabolites in a subset of the core collection of Chinese rice germplasm (<i>Oryza sativa</i> L.). <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 9257-64	5.7	13
144	Determination of Sugars in Tobacco Leaf by HPLC with Evaporative Light Scattering Detection. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2006 , 29, 1281-1289	1.3	13
143	Detection of K-ras exon 1 mutations by constant denaturant capillary electrophoresis. <i>Biomedical Chromatography</i> , 2004 , 18, 538-41	1.7	13
142	Quality evaluation of volatile oils of Traditional Chinese Medicines by using comprehensive two-dimensional gas chromatography (GC/C). <i>Chromatographia</i> , 2003 , 57, S265-S270	2.1	13
141	Alteration of Metabolic Profile and Potential Biomarkers in the Plasma of Alzheimer's Disease 2020 , 11, 1459-1470		13
140	Human Prostate Cancer is Characterized by an Increase in Urea Cycle Metabolites. <i>Cancers</i> , 2020 , 12,	6.6	12
139	A High-Fat Diet Rich in Saturated and Mono-Unsaturated Fatty Acids Induces Disturbance of Thyroid Lipid Profile and Hypothyroxinemia in Male Rats. <i>Molecular Nutrition and Food Research</i> , 2018 , 62, e1700599	5.9	12
138	Recent advances in using mass spectrometry for mitochondrial metabolomics and lipidomics - A review. <i>Analytica Chimica Acta</i> , 2018 , 1037, 3-12	6.6	12
137	Study of metabolite differences of flue-cured tobacco from different regions using a pseudotargeted gas chromatography with mass spectrometry selected-ion monitoring method. <i>Journal of Separation Science</i> , 2014 , 37, 2177-84	3.4	12
136	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
135	Chip-based nanoflow high performance liquid chromatography coupled to mass spectrometry for profiling of soybean flavonoids. <i>Electrophoresis</i> , 2012 , 33, 2399-406	3.6	12
134	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
133	Serum lipid profiling of patients with chronic hepatitis B, cirrhosis, and hepatocellular carcinoma by ultra fast LC/IT-TOF MS. <i>Electrophoresis</i> , 2013 , 34, n/a-n/a	3.6	12
132	Liquid chromatography/mass spectrometry-based metabolic profiling to elucidate chemical differences of tobacco leaves between Zimbabwe and China. <i>Journal of Separation Science</i> , 2011 , 34, 119-26	3.4	12
131	A single-strand conformation polymorphism method by capillary electrophoresis with laser-induced fluorescence for detection of the T1151A mutation in hMLH1 gene. <i>Electrophoresis</i> , 2003 , 24, 2316-21	3.6	12
130	Enhancing the sensitivity of capillary electrophoresis using a microcolumn solid phase extraction setup. <i>Journal of Separation Science</i> , 2003 , 26, 1527-1532	3.4	12

129	Method for the analysis of 8-hydroxy-2'-deoxyguanosine in urine by gas chromatography. <i>Analytical Sciences</i> , 2001 , 17, 779-81	1.7	12
128	Parallel derivatization strategy coupled with liquid chromatography-mass spectrometry for broad coverage of steroid hormones. <i>Journal of Chromatography A</i> , 2020 , 1614, 460709	4.5	12
127	A lipidomics study reveals hepatic lipid signatures associating with deficiency of the LDL receptor in a rat model. <i>Biology Open</i> , 2016 , 5, 979-86	2.2	12
126	A comprehensive strategy for studying protein-metabolite interactions by metabolomics and native mass spectrometry. <i>Talanta</i> , 2019 , 194, 63-72	6.2	12
125	Integration of Proteomics and Metabolomics Revealed Metabolite-Protein Networks in ACTH-Secreting Pituitary Adenoma. <i>Frontiers in Endocrinology</i> , 2018 , 9, 678	5.7	12
124	Plasma bile acid changes in type 2 diabetes correlated with insulin secretion in two-step hyperglycemic clamp. <i>Journal of Diabetes</i> , 2018 , 10, 874-885	3.8	11
123	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
122	Simultaneous determination of non-volatile, semi-volatile, and volatile organic acids in tobacco by SIM-Scan mode GC-MS. <i>Journal of Separation Science</i> , 2008 , 31, 721-6	3.4	11
121	Methylation analysis of hMLH1 gene promoter by a bisulfite-sensitive single-strand conformation polymorphism-capillary electrophoresis method. <i>Biomedical Chromatography</i> , 2006 , 20, 815-20	1.7	11
120	Capillary electrophoresis of urinary normal and modified nucleosides of cancer patients. <i>Methods in Molecular Biology</i> , 2001 , 162, 459-74	1.4	11
119	Muscle-Liver Substrate Fluxes in Exercising Humans and Potential Effects on Hepatic Metabolism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020 , 105,	5.6	11
118	Rational Synthesis of Aptamer-Functionalized Polyethylenimine-Modified Magnetic Graphene Oxide Composites for Highly Efficient Enrichment and Comprehensive Metabolomics Analysis of Exosomes. <i>Analytical Chemistry</i> , 2020 , 92, 15497-15505	7.8	11
117	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
116	Comprehensive Profiling by Non-targeted Stable Isotope Tracing Capillary Electrophoresis-Mass Spectrometry: A New Tool Complementing Metabolomic Analyses of Polar Metabolites. <i>Chemistry - A European Journal</i> , 2019 , 25, 5427-5432	4.8	10
115	Clinical and non-targeted metabolomic profiling of homozygous carriers of Transcription Factor 7-like 2 variant rs7903146. <i>Scientific Reports</i> , 2014 , 4, 5296	4.9	10
114	A modified k-TSP algorithm and its application in LC-MS-based metabolomics study of hepatocellular carcinoma and chronic liver diseases. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014 , 966, 100-8	3.2	10
113	Plasma and liver lipidomics response to an intervention of rimonabant in ApoE*3Leiden.CETP transgenic mice. <i>PLoS ONE</i> , 2011 , 6, e19423	3.7	10
112	Association of Serum Bile Acids Profile and Pathway Dysregulation With the Risk of Developing Diabetes Among Normoglycemic Chinese Adults: Findings From the 4C Study. <i>Diabetes Care</i> , 2021 , 44, 499-510	14.6	10

111	Liquid Chromatography-Mass Spectrometry-Based Tissue Metabolic Profiling Reveals Major Metabolic Pathway Alterations and Potential Biomarkers of Lung Cancer. <i>Journal of Proteome Research</i> , 2020 , 19, 3750-3760	5.6	10
110	Activation of choline kinase drives aberrant choline metabolism in esophageal squamous cell carcinomas. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 155, 148-156	3.5	9
109	Evaluation and optimization of sample preparation methods for metabolic profiling analysis of <i>Escherichia coli</i> . <i>Electrophoresis</i> , 2015 , 36, 2140-2147	3.6	9
108	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. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012 , 910, 156-62	3.2	9
107	Breath pentane: an indicator for early and continuous monitoring of lipid peroxidation in hepatic ischaemia-reperfusion injury. <i>European Journal of Anaesthesiology</i> , 2009 , 26, 513-9	2.3	9
106	Characterization of nitrogen-containing compounds in petroleum fractions by online reversed-phase liquid chromatography-electrospray ionization Orbitrap mass spectrometry. <i>Fuel</i> , 2021 , 284, 119035	7.1	9
105	Alteration of lipids and amino acids in plasma distinguish schizophrenia patients from controls: A targeted metabolomics study. <i>Psychiatry and Clinical Neurosciences</i> , 2021 , 75, 138-144	6.2	9
104	Serum lipidomic biomarkers for non-small cell lung cancer in nonsmoking female patients. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020 , 185, 113220	3.5	8
103	Integrating transcriptome and metabolome reveals molecular networks involved in genetic and environmental variation in tobacco. <i>DNA Research</i> , 2020 , 27,	4.5	8
102	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
101	Differential Amino Acid, Carbohydrate and Lipid Metabolism Perpetuations Involved in a Subtype of Rheumatoid Arthritis with Chinese Medicine Cold Pattern. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	8
100	Which is the urine sample material of choice for metabolomics-driven biomarker studies?. <i>Analytica Chimica Acta</i> , 2020 , 1105, 120-127	6.6	7
99	Enhancement of mitochondrial biogenesis and paradoxical inhibition of lactate dehydrogenase mediated by 14-3-3 σ in oncocytomas. <i>Journal of Pathology</i> , 2018 , 245, 361-372	9.4	7
98	Highly efficient solid-phase derivatization of sugar phosphates with titanium-immobilized hydrophilic polydopamine-coated silica. <i>Journal of Chromatography A</i> , 2016 , 1457, 125-33	4.5	7
97	Chemical properties investigation of commercial cigarettes by a "pseudo" targeted method using GC-MS-selected ions monitoring. <i>Journal of Separation Science</i> , 2013 , 36, 1545-52	3.4	7
96	Separation and detection of polar cuticular components from Oriental tobacco leaf by integration of normal-phase liquid chromatography fractionation with reversed-phase liquid chromatography-mass spectrometry. <i>Journal of Separation Science</i> , 2010 , 33, 3429-36	3.4	7
95	Metabonomics study of intestinal transplantation using ultrahigh-performance liquid chromatography time-of-flight mass spectrometry. <i>Digestion</i> , 2008 , 77, 122-30	3.6	7
94	Rapid identification of pathogenic bacteria by capillary electrophoretic analysis of rRNA genes. <i>Journal of Separation Science</i> , 2005 , 28, 513-21	3.4	7

93	HPLC-MS-Based Metabonomics Reveals Disordered Lipid Metabolism in Patients with Metabolic Syndrome. <i>Journal of Analytical Science and Technology</i> , 2011 , 2, A173-A178	3.4	7
92	Carboxymethylated polyethylenimine modified magnetic nanoparticles specifically for purification of His-tagged protein. <i>Journal of Separation Science</i> , 2019 , 42, 744-753	3.4	7
91	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
90	A novel analysis method for biomarker identification based on horizontal relationship: identifying potential biomarkers from large-scale hepatocellular carcinoma metabolomics data. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 6377-6386	4.4	6
89	Metabolomics Toward Biomarker Discovery. <i>Methods in Molecular Biology</i> , 2017 , 1619, 467-475	1.4	6
88	Breath pentane as a potential biomarker for survival in hepatic ischemia and reperfusion injury--a pilot study. <i>PLoS ONE</i> , 2012 , 7, e44940	3.7	6
87	Fluorescent-based single-strand conformation polymorphism/heteroduplex capillary electrophoretic mutation analysis of the P53 gene. <i>Analytical Sciences</i> , 2004 , 20, 1001-5	1.7	6
86	Identification of related metabolic pathways in prostate cancer. <i>Oncotarget</i> , 2017 , 8, 103032-103046	3.3	6
85	Sample collection and preparation of biofluids and extracts for liquid chromatography-mass spectrometry. <i>Methods in Molecular Biology</i> , 2015 , 1277, 51-9	1.4	6
84	Metabolic Alterations Related to Glioma Grading Based on Metabolomics and Lipidomics Analyses. <i>Metabolites</i> , 2020 , 10,	5.6	6
83	Lipid alterations and subtyping marker discovery of lung cancer based on nontargeted tissue lipidomics using liquid chromatography-mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020 , 190, 113520	3.5	6
82	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
81	Metabolic profiling analysis of <i>Siraitia grosvenorii</i> revealed different characteristics of green fruit and saccharified yellow fruit. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017 , 145, 158-168	3.5	5
80	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
79	Novel affinity monolithic column modified with cuprous sulfide nanoparticles for the selective enrichment of low-molecular-weight electron-rich analytes. <i>Journal of Separation Science</i> , 2015 , 38, 982-9	3.4	5
78	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
77	Synthesis and Application of a Nitrobenzeneboronic Acid-substituted Silica for Affinity Chromatography. <i>Chinese Journal of Analytical Chemistry</i> , 2006 , 34, 1366-1370	1.6	5
76	Simultaneous analysis of microsatellite instability and loss of heterozygosity by capillary electrophoresis with a homemade kit. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2006 , 834, 122-7	3.2	5

75	Simultaneous genotyping of multiplex single nucleotide polymorphisms of the K-ras gene with a home-made kit. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2003 , 795, 55-60	3.2	5
74	HMLH1 gene mutation in gastric cancer patients and their kindred. <i>World Journal of Gastroenterology</i> , 2005 , 11, 3144-6	5.6	5
73	Metabolome-wide association study of serum exogenous chemical residues in a cohort with 5 major chronic diseases. <i>Environment International</i> , 2021 , 158, 106919	12.9	5
72	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
71	Metabolic profiling reveals distinct metabolic alterations in different subtypes of pituitary adenomas and confers therapeutic targets. <i>Journal of Translational Medicine</i> , 2019 , 17, 291	8.5	4
70	Preparation of mesoporous SiO ₂ @azobenzene-COOH chemoselective nanoprobe for comprehensive mapping of amino metabolites in human serum. <i>Chemical Communications</i> , 2015 , 51, 11321-4	5.8	4
69	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
68	Rapid quantification of sucrose esters in oriental tobacco by liquid chromatography-ion trap mass spectrometry. <i>Journal of Separation Science</i> , 2007 , 30, 35-41	3.4	4
67	Quantification of cis-Abienol in Oriental Tobacco Leaves by LC. <i>Chromatographia</i> , 2007 , 66, 529-532	2.1	4
66	Effect of docosahexaenoic acid on interleukin-2 receptor signaling pathway in lipid rafts. <i>Science in China Series C: Life Sciences</i> , 2006 , 49, 63-72		4
65	Optimization of Gas Chromatographic Analytical Methods for Toxic Compounds in Air.. <i>Analytical Sciences</i> , 1994 , 10, 241-245	1.7	4
64	Comparison of Erythrocyte Membrane Lipid Profiles between NAFLD Patients with or without Hyperlipidemia. <i>International Journal of Endocrinology</i> , 2020 , 2020, 9501826	2.7	4
63	Determination of candidate metabolite biomarkers associated with recurrence of HCV-related hepatocellular carcinoma. <i>Oncotarget</i> , 2018 , 9, 6245-6258	3.3	4
62	Capillary electrophoresis of oxidative DNA damage. <i>Methods in Molecular Biology</i> , 2008 , 384, 431-40	1.4	4
61	Capillary electrophoresis of gene mutation. <i>Methods in Molecular Biology</i> , 2008 , 384, 441-55	1.4	4
60	Serum Metabolic Profiling Identifies a Biomarker Panel for Improvement of Prostate Cancer Diagnosis. <i>Frontiers in Oncology</i> , 2021 , 11, 666320	5.3	4
59	Recent development of nanoparticle-assisted metabolites analysis with mass spectrometry. <i>Journal of Chromatography A</i> , 2021 , 1636, 461785	4.5	4
58	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.. <i>Gut Microbes</i> , 2022 , 14, 2003176	8.8	4

57	Switching from Fatty Acid Oxidation to Glycolysis Improves the Outcome of Acute-On-Chronic Liver Failure. <i>Advanced Science</i> , 2020 , 7, 1902996	13.6	3
56	Measurement of pentane in expiratory gas during rabbit hepatic ischemia/ reperfusion by solid-phase microextraction and gas chromatography-mass spectrometry (SPME GC/MS). <i>Journal of Breath Research</i> , 2012 , 6, 026003	3.1	3
55	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
54	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
53	Alternate reversed-phase and hydrophilic interaction liquid chromatography coupled with mass spectrometry for broad coverage in metabolomics analysis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020 , 1152, 122266	3.2	3
52	Untargeted Lipidomics Reveals Specific Lipid Abnormalities in Nonfunctioning Human Pituitary Adenomas. <i>Journal of Proteome Research</i> , 2020 , 19, 455-463	5.6	3
51	Proline metabolism in cancer. <i>Amino Acids</i> , 2021 , 53, 1769-1777	3.5	3
50	Low-dose PCB126 exposure disrupts cardiac metabolism and causes hypertrophy and fibrosis in mice. <i>Environmental Pollution</i> , 2021 , 290, 118079	9.3	3
49	USP22 regulates lipidome accumulation by stabilizing PPAR α in hepatocellular carcinoma.. <i>Nature Communications</i> , 2022 , 13, 2187	17.4	3
48	High-throughput metabolic profiling based on small amount of hepatic cells. <i>Electrophoresis</i> , 2017 , 38, 2296-2303	3.6	2
47	Sex-specific plasma metabolome signatures in major depressive disorder. <i>Psychiatry and Clinical Neurosciences</i> , 2019 , 73, 713-714	6.2	2
46	Differences between the metabolic profiles of decompensated and compensated cirrhosis patients with Hepatitis B virus infections under high-performance liquid chromatography-mass spectrometry. <i>Metabolomics</i> , 2012 , 8, 845-853	4.7	2
45	Determination of trace RA by capillary electrophoresis-solid-phase microextraction with direct UV detection. <i>Journal of Chromatographic Science</i> , 2003 , 41, 301-4	1.4	2
44	Overexpression of hMSH2 and hMLH1 protein in certain gastric cancers and their surrounding mucosae. <i>Oncology Reports</i> ,	3.5	2
43	LC-MS Metabonomics Methodology in Biomarker Discovery. <i>Methods in Pharmacology and Toxicology</i> , 2008 , 291-315	1.1	2
42	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
41	Metabolome-Genome-Wide Association Study (mGWAS) Reveals Novel Metabolites Associated with Future Type 2 Diabetes Risk and Susceptibility Loci in a Case-Control Study in a Chinese Prospective Cohort. <i>Global Challenges</i> , 2021 , 5, 2000088	4.3	2
40	Serum lipid profiling analysis and potential marker discovery for ovarian cancer based on liquid chromatography-Mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021 , 199, 114048	3.5	2

39	How to Screen and Prevent Metabolic Syndrome in Patients of PCOS Early: Implications From Metabolomics. <i>Frontiers in Endocrinology</i> , 2021 , 12, 659268	5.7	2
38	Plasma Metabolomics for Discovery of Early Metabolic Markers of Prostate Cancer Based on Ultra-High-Performance Liquid Chromatography-High Resolution Mass Spectrometry. <i>Cancers</i> , 2021 , 13,	6.6	2
37	Strategy for Nontargeted Metabolomic Annotation and Quantitation Using a High-Resolution Spectral-Stitching Nano electrospray Direct-Infusion Mass Spectrometry with Data-Independent Acquisition. <i>Analytical Chemistry</i> , 2021 , 93, 10528-10537	7.8	2
36	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
35	Facile Synthesis of Antibody-Coupled Polydopamine-Coated Magnetic Graphene Oxide Composites for Efficient Immunopurification and Metabolomics Analysis of Mitochondria. <i>Analytical Chemistry</i> , 2021 , 93, 11099-11107	7.8	2
34	Untargeted Defining Protein-Metabolites Interaction Based on Label-Free Kinetic Size Exclusion Chromatography-Mass Spectrometry. <i>Analytical Chemistry</i> , 2020 , 92, 7657-7665	7.8	1
33	Identification and regulation of the xenometabolite derivatives - and -3,4-methylene-heptanoylcarnitine in plasma and skeletal muscle of exercising humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020 , 318, E701-E709	6	1
32	Mismatch repair gene hMSH2 protein as predictive maker for gastric carcinoma. <i>Chinese-German Journal of Clinical Oncology</i> , 2007 , 6, 37-39		1
31	Studies on Pathway of Producing Terephthalic Acid by Microorganism Coordinated Catalysis. <i>Chinese Journal of Analytical Chemistry</i> , 2008 , 36, 1024-1028	1.6	1
30	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
29	Novel Stable Isotope-Resolved Metabolomics Method for a Small Number of Cells Using Chip-Based Nano electrospray Mass Spectrometry. <i>Analytical Chemistry</i> , 2021 , 93, 13765-13773	7.8	1
28	Liquid chromatography-mass spectrometry of biofluids and extracts. <i>Methods in Molecular Biology</i> , 2015 , 1277, 61-73	1.4	1
27	Prognosis prediction of hepatocellular carcinoma after surgical resection based on serum metabolic profiling from gas chromatography-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 3153-3165	4.4	1
26	Systematic, Modifying Group-Assisted Strategy Expanding Coverage of Metabolite Annotation in Liquid Chromatography-Mass Spectrometry-Based Nontargeted Metabolomics Studies. <i>Analytical Chemistry</i> , 2021 , 93, 10916-10924	7.8	1
25	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
24	Comparison of the metabolome in urine prior and eight weeks after radical prostatectomy uncovers pathologic and molecular features of prostate cancer. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021 , 205, 114288	3.5	1
23	Gut microbiota-related metabolome analysis based on chromatography-mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2021 , 143, 116375	14.6	1
22	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

21	Data analysis methods for defining biomarkers from omics data.. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 414, 235	4.4	1
20	Comprehensive metabolite quantitative assay based on alternate metabolomics and lipidomics analyses. <i>Analytica Chimica Acta</i> , 2022 , 339979	6.6	1
19	Exercise prevents fatty liver by modifying the compensatory response of mitochondrial metabolism to excess substrate availability. <i>Molecular Metabolism</i> , 2021 , 101359	8.8	0
18	Lipid Profiling of 20 Mammalian Cells by Capillary Microsampling Combined with High-Resolution Spectral Stitching Nano-electrospray Ionization Direct-Infusion Mass Spectrometry. <i>Analytical Chemistry</i> , 2021 , 93, 10031-10038	7.8	0
17	A high throughput lipidomics method and its application in atrial fibrillation based on 96-well plate pretreatment and liquid chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2021 , 1651, 462271	4.5	0
16	Association of plasma branched-chain amino acids with overweight: A Mendelian randomization analysis. <i>Obesity</i> , 2021 , 29, 1708-1718	8	0
15	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
14	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
13	Hanfa Zou, 1961-2016. <i>Journal of Chromatography A</i> , 2017 , 1498, 2-7	4.5	
12	Reply. <i>Hepatology</i> , 2018 , 67, 2483-2484	11.2	
11	A new two-dimensional LC/MS/MS-based metabolomics method and its applications in the traditional Chinese medicines and diseases. <i>Journal of Biotechnology</i> , 2008 , 136, S26	3.7	
10	The role of expression of mismatch repair proteins hMSH2 and hMLH1 in gastric carcinogenesis and its clinical significance. <i>Chinese Journal of Clinical Oncology</i> , 2007 , 4, 351-354		
9	The Effect of Helicobacter Pylori Infection on Expression of hMSH2, hMLH1 and p53 in Gastric Carcinogenesis. <i>Chinese-German Journal of Clinical Oncology</i> , 2005 , 4, 209-212		
8	The effect of Helicobacter pylori infection on hMSH2 and P53 proteins in gastric carcinogenesis. <i>Chinese Journal of Clinical Oncology</i> , 2005 , 2, 791-795		
7	Changes of hMSH2 and hMLH1 Expression in Nasopharyngeal carcinoma cells after X-radiation. <i>Chinese Journal of Clinical Oncology</i> , 2005 , 2, 700-705		
6	Metabolomic Biomarkers in Parkinson's Disease. <i>NeuroMethods</i> , 2022 , 181-213	0.4	
5	Metabolic Activity of the Liver during Exercise: A Metabolomics Approach. <i>Diabetes</i> , 2018 , 67, 1856-P	0.9	
4	Mass Spectrometry-Based Lipidomics for Biomarker Research. <i>Biomarkers in Disease</i> , 2015 , 49-74		

3 Metabonomics of Hepatocellular Carcinoma **2012**, 155-177

2 Mass Spectrometry-Based Lipidomics for Biomarker Research **2014**, 1-20

1 Serum Metabonomics Reveals Risk Factors in Different Periods of Cerebral Infarction in Humans..
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