Jun Han

List of Publications by Year
in descending order

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71 papers	3,956 citations	126907 33 h-index	128289 60 g-index
73 all docs	73 docs citations	73 times ranked	6505 citing authors

#	Article	IF	Citations
1	An isotope-labeled chemical derivatization method for the quantitation of short-chain fatty acids in human feces by liquid chromatographyâ€“tandem mass spectrometry. Analytica Chimica Acta, 2015, 854, 86-94.	5.4	380
2	Adora2b-elicited Per2 stabilization promotes a HIF-dependent metabolic switch crucial for myocardial adaptation to ischemia. Nature Medicine, 2012, 18, 774-782.	30.7	278
3	Effect of Antibiotic Treatment on the Intestinal Metabolome. Antimicrobial Agents and Chemotherapy, 2011, 55, 1494-1503.	3.2	258
4	Hydrogen/Deuterium Exchange Mass Spectrometry with Top-Down Electron Capture Dissociation for Characterizing Structural Transitions of a 17 kDa Protein. Journal of the American Chemical Society, 2009, 131, 12801-12808.	13.7	174
5	Diet and specific microbial exposure trigger features of environmental enteropathy in a novel murine model. Nature Communications, 2015, 6, 7806.	12.8	172
6	HIF1A Reduces Acute Lung Injury by Optimizing Carbohydrate Metabolism in the Alveolar Epithelium. PLoS Biology, 2013, 11, e1001665.	5.6	138
7	Towards high-throughput metabolomics using ultrahigh-field Fourier transform ion cyclotron resonance mass spectrometry. Metabolomics, 2008, 4, 128-140.	3.0	136
8	Metabolic Profiling of Bile Acids in Human and Mouse Blood by LCâ€“MS/MS in Combination with Phospholipid-Depletion Solid-Phase Extraction. Analytical Chemistry, 2015, 87, 1127-1136.	6.5	134
9	Electron Capture Dissociation of Electrosprayed Protein Ions for Spatially Resolved Hydrogen Exchange Measurements. Journal of the American Chemical Society, 2008, 130, 11574-11575.	13.7	111
10	Defects in myosin VB are associated with a spectrum of previously undiagnosed low Î³â€glutamyltransferase cholestasis. Hepatology, 2017, 65, 1655-1669.	7.3	107
11	Recent advancements in matrix-assisted laser desorption/ionization mass spectrometry imaging. Current Opinion in Biotechnology, 2017, 43, 62-69.	6.6	107
12	Impact of Salmonella Infection on Host Hormone Metabolism Revealed by Metabolomics. Infection and Immunity, 2011, 79, 1759-1769.	2.2	104
13	Metabolomic analysis of key central carbon metabolism carboxylic acids as their 3â€nitrophenylhydrazones by <scp>UPLC</scp>/<scp>ESI</scp>â€<scp>MS</scp>. Electrophoresis, 2013, 34, 2891-2900.	2.4	100
14	<scp>M</scp>ycobacterium lepraeintracellular survival relies on cholesterol accumulation in infected macrophages: a potential target for new drugs for leprosy treatment. Cellular Microbiology, 2014, 16, 797-815.	2.1	83
15	Characterizing Short-Lived Protein Folding Intermediates by Top-Down Hydrogen Exchange Mass Spectrometry. Analytical Chemistry, 2010, 82, 8591-8597.	6.5	78
16	Hydroxyflavones as a New Family of Matrices for MALDI Tissue Imaging. Analytical Chemistry, 2013, 85, 7566-7573.	6.5	72
17	MALDI Tissue Imaging of Ocular Lens Î±-Crystallin. , 2006, 47, 2990.		70
18	Metabolomic profiling of a modified alcohol liquid diet model for liver injury in the mouse uncovers new markers of disease. Toxicology and Applied Pharmacology, 2008, 232, 236-243.	2.8	67

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19	Structure and Dynamics of Small Soluble AÎ²(1â€“40) Oligomers Studied by Top-Down Hydrogen Exchange Mass Spectrometry. Biochemistry, 2012, 51, 3694-3703.	2.5	64
20	Conformer-Specific Hydrogen Exchange Analysis of AÎ²(1â€“42) Oligomers by Top-Down Electron Capture Dissociation Mass Spectrometry. Analytical Chemistry, 2011, 83, 5386-5393.	6.5	62
21	Proteomics and Phosphoproteomics Analysis of Human Lens Fiber Cell Membranes. , 2013, 54, 1135.		61
22	Mass spectrometry-based technologies for high-throughput metabolomics. Bioanalysis, 2009, 1, 1665-1684.	1.5	60
23	Comprehensive Imaging of Porcine Adrenal Gland Lipids by MALDI-FTMS Using Quercetin as a Matrix. Analytical Chemistry, 2014, 86, 638-646.	6.5	56
24	Comprehensive Analysis of Oil Sands Processed Water by Direct-Infusion Fourier-Transform Ion Cyclotron Resonance Mass Spectrometry with and without Offline UHPLC Sample Prefractionation. Environmental Science & Technology, 2013, 47, 4471-4479.	10.0	49
25	Metabolomics: towards understanding hostâ€“microbe interactions. Future Microbiology, 2010, 5, 153-161.	2.0	48
26	Analysis of Selected Sugars and Sugar Phosphates in Mouse Heart Tissue by Reductive Amination and Liquid Chromatography-Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2013, 85, 5965-5973.	6.5	45
27	Proteolysis and Mass Spectrometric Analysis of an Integral Membrane:Â Aquaporin 0. Journal of Proteome Research, 2004, 3, 807-812.	3.7	44
28	Mass Spectrometry-Based Structural Proteomics. European Journal of Mass Spectrometry, 2012, 18, 251-267.	1.0	44
29	Dithranol as a MALDI Matrix for Tissue Imaging of Lipids by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Analytical Chemistry, 2012, 84, 8391-8398.	6.5	44
30	Metabolic Signatures of Triatomine Vectors of Trypanosoma cruzi Unveiled by Metabolomics. PLoS ONE, 2013, 8, e77283.	2.5	43
31	Metabonomics Reveals Drastic Changes in Anti-Inflammatory/Pro-Resolving Polyunsaturated Fatty Acids-Derived Lipid Mediators in Leprosy Disease. PLoS Neglected Tropical Diseases, 2013, 7, e2381.	3.0	41
32	The Deubiquitinase Activity of the Salmonella Pathogenicity Island 2 Effector, SseL, Prevents Accumulation of Cellular Lipid Droplets. Infection and Immunity, 2011, 79, 4392-4400.	2.2	40
33	Verification and spatial localization of aquaporin-5 in the ocular lens. Experimental Eye Research, 2013, 108, 94-102.	2.6	40
34	Spatial Differences in an Integral Membrane Proteome Detected in Laser Capture Microdissected Samples. Journal of Proteome Research, 2008, 7, 2696-2702.	3.7	38
35	Matrix coating assisted by an electric field (MCAEF) for enhanced tissue imaging by MALDI-MS. Chemical Science, 2015, 6, 729-738.	7.4	36
36	Metabolomic profiling of prostate cancer by matrix assisted laser desorption/ionization-Fourier transform ion cyclotron resonance mass spectrometry imaging using Matrix Coating Assisted by an Electric Field (MCAEF). Biochimica Et Biophysica Acta - Proteins and Proteomics, 2017, 1865, 755-767.	2.3	35

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37	Intense Light-Mediated Circadian Cardioprotection via Transcriptional Reprogramming of the Endothelium. Cell Reports, 2019, 28, 1471-1484.e11.	6.4	35
38	Metabolomics Reveals Phospholipids as Important Nutrient Sources during Salmonella Growth in Bile In Vitro and In Vivo. Journal of Bacteriology, 2011, 193, 4719-4725.	2.2	32
39	Metabolomic insights into system-wide coordination of vertebrate metamorphosis. BMC Developmental Biology, 2014, 14, 5.	2.1	32
40	Repression of Salmonella Host Cell Invasion by Aromatic Small Molecules from the Human Fecal Metabolome. Applied and Environmental Microbiology, 2017, 83, .	3.1	31
41	Freeâ€flow electrophoresis for topâ€down proteomics by Fourier transform ion cyclotron resonance mass spectrometry. Proteomics, 2008, 8, 2798-2808.	2.2	30
42	Isotope-labeling derivatization with 3-nitrophenylhydrazine for LC/multiple-reaction monitoring-mass-spectrometry-based quantitation of carnitines in dried blood spots. Analytica Chimica Acta, 2018, 1037, 177-187.	5.4	29
43	Hydrophilic bile acids prevent liver damage caused by lack of biliary phospholipid in Mdr2 mice. Journal of Lipid Research, 2019, 60, 85-97.	4.2	28
44	MALDI tissue profiling of integral membrane proteins from ocular tissues. Journal of the American Society for Mass Spectrometry, 2008, 19, 814-822.	2.8	25
45	Quantitation of low molecular weight sugars by chemical derivatizationâ€liquid chromatography/multiple reaction monitoring/mass spectrometry. Electrophoresis, 2016, 37, 1851-1860.	2.4	25
46	Cardiac Ryanodine Receptor (Ryr2)-mediated Calcium Signals Specifically Promote Glucose Oxidation via Pyruvate Dehydrogenase. Journal of Biological Chemistry, 2016, 291, 23490-23505.	3.4	23
47	Increased sulfation of bile acids in mice and human subjects with sodium taurocholate cotransporting polypeptide deficiency. Journal of Biological Chemistry, 2019, 294, 11853-11862.	3.4	22
48	Repression of Salmonella enterica phoP Expression by Small Molecules from Physiological Bile. Journal of Bacteriology, 2012, 194, 2286-2296.	2.2	19
49	The use of matrix coating assisted by an electric field (MCAEF) to enhance mass spectrometric imaging of human prostate cancer biomarkers. Journal of Mass Spectrometry, 2016, 51, 86-95.	1.6	19
50	Using multiple structural proteomics approaches for the characterization of prion proteins. Journal of Proteomics, 2013, 81, 31-42.	2.4	18
51	Accurate molecular weight analysis of histones using FFE and RPâ€HPLC on monolithic capillary columns. Journal of Separation Science, 2009, 32, 2691-2698.	2.5	17
52	Peering into molecular mechanisms of action with frogSCOPE. General and Comparative Endocrinology, 2010, 168, 190-198.	1.8	17
53	Comprehensive bile acid profiling in hereditary intrahepatic cholestasis: Genetic and clinical correlations. Liver International, 2018, 38, 1676-1685.	3.9	14
54	Top-down hydrogen/deuterium exchange and ECD-stitched FTICR-MS for probing structural dynamics of a 29-kDa enzyme. International Journal of Mass Spectrometry, 2012, 325-327, 130-138.	1.5	12

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55	Metabolomic insights into the effects of thyroid hormone on Rana [Lithobates] catesbeiana metamorphosis using whole-body Matrix Assisted Laser Desorption/Ionization-Mass Spectrometry Imaging (MALDI-MSI). General and Comparative Endocrinology, 2018, 265, 237-245.	1.8	12
56	Depletion of essential isoprenoids and ER stress induction following acute liver-specific deletion of HMG-CoA reductase. Journal of Lipid Research, 2020, 61, 1675-1686.	4.2	12
57	Mapping of protein phosphorylation by dual enzyme digestion and matrix-assisted laser desorption ionizationâ€“quadrupole orthogonal time-of-flight mass spectrometry. Analytical Biochemistry, 2002, 310, 215-218.	2.4	10
58	Comment on â€œProfiling Oil Sands Mixtures from Industrial Developments and Natural Groundwaters for Source Identificationâ€. Environmental Science & Technology, 2014, 48, 11013-11014.	10.0	10
59	The Gut Microbiome and Metabolome of Two Riparian Communities in the Amazon. Frontiers in Microbiology, 2019, 10, 2003.	3.5	10
60	Topâ€down analysis of recombinant histone H3 and its methylated analogs by ESI/FTâ€ICR mass spectrometry. Proteomics, 2010, 10, 3621-3630.	2.2	8
61	NTCP Deficiency Causes Gallbladder Abnormalities in Mice and Human Beings. Cellular and Molecular Gastroenterology and Hepatology, 2021, 11, 831-839.	4.5	7
62	Profiling of dissolved organic compounds in the oil sands region using complimentary liquidâ€“liquid extraction and ultrahigh resolution Fourier transform mass spectrometry. Environmental Earth Sciences, 2017, 76, 1.	2.7	6
63	Changes in plasma bile acid profiles after partial internal biliary diversion in PFIC2 patients. Annals of Translational Medicine, 2020, 8, 185-185.	1.7	5
64	Acceleration of age-induced proteolysis in the guinea pig lens nucleus by in vivo exposure to hyperbaric oxygen: A mass spectrometry analysis. Experimental Eye Research, 2021, 210, 108697.	2.6	5
65	Sequence and peptide map of guinea pig aquaporin 0. Molecular Vision, 2004, 10, 215-22.	1.1	5
66	Molecular profiling of naphthenic acids in technical mixtures and oil sands processâ€affected water using polar reversedâ€phase liquid chromatographyâ€“mass spectrometry. Electrophoresis, 2016, 37, 3089-3100.	2.4	4
67	Emerging Mass Spectrometry-Based Technologies for Analyses of Chromatin Changes: Analysis of Histones and Histone Modifications. Methods in Molecular Biology, 2011, 773, 259-303.	0.9	4
68	Circulating Isovalerylcarnitine and Lung Cancer Risk: Evidence from Mendelian Randomization and Prediagnostic Blood Measurements. Cancer Epidemiology Biomarkers and Prevention, 2022, 31, 1966-1974.	2.5	4
69	Dithranol as a Matrix for Matrix Assisted Laser Desorption/Ionization Imaging on a Fourier Transform Ion Cyclotron Resonance Mass Spectrometer. Journal of Visualized Experiments, 2013, , e50733.	0.3	3
70	Supermolecule-assisted imaging of low-molecular-weight quaternary-ammonium compounds by MALDI-MS of their non-covalent complexes with cucurbit[7]uril. RSC Advances, 2020, 10, 34261-34265.	3.6	2
71	Intestinal Deletion of 3-Hydroxy-3-Methylglutaryl-Coenzyme A Reductase Promotes Expansion of the Resident Stem Cell Compartment. Arteriosclerosis, Thrombosis, and Vascular Biology, 2022, 42, 381-394.	2.4	1