

Hongying Zhong

List of Publications by Year in descending order

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33
papers

671
citations

840776

11
h-index

552781

26
g-index

34
all docs

34
docs citations

34
times ranked

877
citing authors

#	ARTICLE	IF	CITATIONS
1	Microwave-assisted acid hydrolysis of proteins combined with liquid chromatography MALDI MS/MS for protein identification. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 471-481.	2.8	140
2	Protein sequencing by mass analysis of polypeptide ladders after controlled protein hydrolysis. <i>Nature Biotechnology</i> , 2004, 22, 1291-1296.	17.5	118
3	Mass spectrometric analysis of mono- and multi-phosphopeptides by selective binding with NiZnFe ₂ O ₄ magnetic nanoparticles. <i>Nature Communications</i> , 2013, 4, 1656.	12.8	79
4	Typing of unknown microorganisms based on quantitative analysis of fatty acids by mass spectrometry and hierarchical clustering. <i>Analytica Chimica Acta</i> , 2011, 684, 8-16.	5.4	54
5	Chemical Imaging of Latent Fingerprints by Mass Spectrometry Based on Laser Activated Electron Tunneling. <i>Analytical Chemistry</i> , 2015, 87, 2693-2701.	6.5	54
6	Rapid Transmethylation and Stable Isotope Labeling for Comparative Analysis of Fatty Acids by Mass Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 5080-5087.	6.5	29
7	Mass spectrometric monitoring of interfacial photoelectron transfer and imaging of active crystalline facets of semiconductors. <i>Nature Communications</i> , 2017, 8, 14524.	12.8	27
8	Measurement of laser activated electron tunneling from semiconductor zinc oxide to adsorbed organic molecules by a matrix assisted laser desorption ionization mass spectrometer. <i>Analytica Chimica Acta</i> , 2012, 729, 45-53.	5.4	23
9	Two-Dimensional Mass Spectra Generated from the Analysis of ¹⁵ N-Labeled and Unlabeled Peptides for Efficient Protein Identification and de novo Peptide Sequencing. <i>Journal of Proteome Research</i> , 2004, 3, 1155-1163.	3.7	18
10	Gas chromatography-mass spectrometric analysis of bonded long chain fatty acids in a single zebrafish egg by ultrasound-assisted one-step transmethylation and extraction. <i>Analytica Chimica Acta</i> , 2009, 650, 221-226.	5.4	17
11	Imaging of Endogenous Metabolites of Plant Leaves by Mass Spectrometry Based on Laser Activated Electron Tunneling. <i>Scientific Reports</i> , 2016, 6, 24164.	3.3	16
12	An algorithm for interpretation of low-energy collision-induced dissociation product ion spectra for de novo sequencing of peptides. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 1084-1096.	1.5	13
13	Comparative analysis of S-fatty acylation of gel-separated proteins by stable isotope-coded fatty acid transmethylation and mass spectrometry. <i>Nature Protocols</i> , 2011, 6, 1377-1390.	12.0	10
14	Titanium Dioxide Photocatalytic Polymerization of Acrylamide for Gel Electrophoresis (TIPPAGE) of Proteins and Structural Identification by Mass Spectrometry. <i>Scientific Reports</i> , 2016, 6, 20981.	3.3	9
15	Quantitative analysis of aberrant fatty acid composition of zebrafish hepatic lipids induced by organochlorine pesticide using stable isotope-coded transmethylation and gas chromatography-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 207-216.	3.7	8
16	Chemical and genetic probes for analysis of protein palmitoylation. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 1316-1324.	2.3	7
17	Desalting of phosphopeptides by tandem polypyrrole-c18 reverse phase micropipette tip (TMTipPPY-C18) based on hybrid electrostatic, π - π stacking and hydrophobic interactions for mass spectrometric analysis. <i>Analytica Chimica Acta</i> , 2012, 724, 73-79.	5.4	7
18	Ultraviolet irradiation-induced substitution of fluorine with hydroxyl radical for mass spectrometric analysis of perfluorooctane sulfonyl fluoride. <i>Analytica Chimica Acta</i> , 2016, 905, 100-105.	5.4	7

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19	Laser Activated Electron Tunneling Based Mass Spectrometric Imaging of Molecular Architectures of Mouse Brain Revealing Regional Specific Lipids. <i>Analytical Chemistry</i> , 2016, 88, 732-739.	6.5	6
20	Cu ²⁺ -assisted two dimensional charge-mass double focusing gel electrophoresis and mass spectrometric analysis of histone variants. <i>Analytica Chimica Acta</i> , 2014, 852, 121-128.	5.4	5
21	Photo-catalytic Activities of Plant Hormones on Semiconductor Nanoparticles by Laser-Activated Electron Tunneling and Emitting. <i>Scientific Reports</i> , 2015, 5, 8893.	3.3	5
22	Compressed matrix thin film (CMTF)-assisted laser desorption ionization mass spectrometric analysis. <i>Analytica Chimica Acta</i> , 2013, 786, 85-94.	5.4	4
23	Mass spectrometric imaging reveals photocatalytic degradation intermediates of aromatic organochlorines resulting from interfacial photoelectron transfer and hydroxyl radical abstraction on semiconductor nanoparticles. <i>Analytica Chimica Acta</i> , 2019, 1054, 104-113.	5.4	4
24	Quantification of Interactions between Serum Albumin and Endogenous Free Fatty Acids or Exogenous Chemicals by Stable Isotope-Coded Mass Spectrometry. <i>ACS Medicinal Chemistry Letters</i> , 2011, 2, 587-591.	2.8	2
25	Monitoring of adsorption and transfer of organochlorines in soybean seeds and sprouts with mass spectrometric imaging. <i>Analytica Chimica Acta</i> , 2020, 1130, 10-19.	5.4	2
26	Competing Deprotonation and Electron Capture Dissociation in MALDI Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 322-329.	2.8	2
27	Ion fragmentations via photoelectron activated radical relays and competed hole oxidization on semiconductor nanoparticles for mass spectrometry. <i>Analytica Chimica Acta</i> , 2018, 1044, 1-11.	5.4	1
28	Electron Acceptive Mass Tag for Mass Spectrometric Imaging-Guided Synergistic Targeting to Mice Brain Glutamate Receptors. <i>ACS Chemical Neuroscience</i> , 2019, 10, 757-767.	3.5	1
29	A Soft Evaporation and Ionization Technique for Mass Spectrometric Analysis and Bio-Imaging of Metal Ions in Plants Based on Metal-Iodide Cluster Ionization. <i>Analytical Chemistry</i> , 2021, 93, 15597-15606.	6.5	1
30	Cell-Based Ambient Venturi Autosampling and Matrix-Assisted Laser Desorption Ionization Mass Spectrometric Imaging of Secretory Products. <i>Analytical Chemistry</i> , 2022, 94, 3456-3466.	6.5	1
31	Metal-organic framework on porous TiO ₂ thin film-coated alumina beads for fractional distillation of plant essential oils. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 4809-4819.	3.7	1
32	Real-time laser induced chemical derivatizations of peptide N-Terminus for in-situ mass spectrometric sequencing at sub-picomole and nanosecond scale. <i>Analytica Chimica Acta</i> , 2020, 1100, 1-11.	5.4	0
33	Electrophoresis of Phosphoproteins on a Tandem Polymerized Gel. <i>Analytical Chemistry</i> , 2022, 94, 7466-7474.	6.5	0