Zhixin Tian

List of Publications by Year
in descending order

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69	2,384	304743	223800
papers	citations	22 h-index	46 g-index

77	77	77	3651
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A vaccine targeting the RBD of the S protein of SARS-CoV-2 induces protective immunity. Nature, 2020, 586, 572-577.	27.8	630
2	Does Electrospray Ionization Produce Gas-Phase or Liquid-Phase Structures?. Journal of the American Chemical Society, 2008, 130, 10842-10843.	13.7	119
3	Enhanced top-down characterization of histone post-translational modifications. Genome Biology, 2012, 13, R86.	9.6	113
4	The glycosylation in SARS-CoV-2 and its receptor ACE2. Signal Transduction and Targeted Therapy, 2021, 6, 396.	17.1	111
5	Gasâ€Phase versus Liquidâ€Phase Structures by Electrospray Ionization Mass Spectrometry. Angewandte Chemie - International Edition, 2009, 48, 1321-1323.	13.8	94
6	Cycloalkane and Cycloalkene Câ^'H Bond Dissociation Energies. Journal of the American Chemical Society, 2006, 128, 17087-17092.	13.7	82
7	Are Carboxyl Groups the Most Acidic Sites in Amino Acids? Gas-Phase Acidity, H/D Exchange Experiments, and Computations on Cysteine and Its Conjugate Base. Journal of the American Chemical Society, 2007, 129, 5403-5407.	13.7	78
8	GPSeeker Enables Quantitative Structural N-Glycoproteomics for Site- and Structure-Specific Characterization of Differentially Expressed N-Glycosylation in Hepatocellular Carcinoma. Journal of Proteome Research, 2019, 18, 2885-2895.	3.7	73
9	Single-Centered Hydrogen-Bonded Enhanced Acidity (SHEA) Acids: A New Class of BrÃ¸nsted Acids. Journal of the American Chemical Society, 2009, 131, 16984-16988.	13.7	70
10	Are Carboxyl Groups the Most Acidic Sites in Amino Acids? Gas-Phase Acidities, Photoelectron Spectra, and Computations on Tyrosine, p-Hydroxybenzoic Acid, and Their Conjugate Bases. Journal of the American Chemical Society, 2009, 131, 1174-1181.	13.7	67
11	Mapping N-Linked Glycosylation Sites in the Secretome and Whole Cells of Aspergillus niger Using Hydrazide Chemistry and Mass Spectrometry. Journal of Proteome Research, 2012, 11, 143-156.	3.7	62
12	The Heat of Formation of Cyclobutadiene. Angewandte Chemie - International Edition, 2006, 45, 4984-4988.	13.8	56
13	Twoâ€dimensional liquid chromatography system for online topâ€down mass spectrometry. Proteomics, 2010, 10, 3610-3620.	2.2	44
14	Carbanions in the Gas Phase. Chemical Reviews, 2013, 113, 6986-7010.	47.7	43
15	Pressurized Pepsin Digestion in Proteomics. Molecular and Cellular Proteomics, 2011, 10, S1-S11.	3.8	41
16	Lithium monoxide anion: A ground-state triplet with the strongest base to date. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7647-7651.	7.1	36
17	Largeâ€scale identification and visualization of Nâ€glycans with primary structures using GlySeeker. Rapid Communications in Mass Spectrometry, 2018, 32, 142-148.	1.5	33
18	Magic bimetallic cluster anions of M/Pb (M = Au, Ag and Cu) observed and analyzed by laser ablation and time-of-flight mass spectrometry. Rapid Communications in Mass Spectrometry, 2003, 17, 1411-1415.	1.5	28

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19	Interpreting raw biological mass spectra using isotopic massâ€toâ€charge ratio and envelope fingerprinting. Rapid Communications in Mass Spectrometry, 2013, 27, 1267-1277.	1.5	28
20	Intact Protein Quantitation Using Pseudoisobaric Dimethyl Labeling. Analytical Chemistry, 2016, 88, 7198-7205.	6.5	27
21	Site- and structure-specific characterization ofN-glycoprotein markers of MCF-7 cancer stem cells using isotopic-labelling quantitativeN-glycoproteomics. Chemical Communications, 2019, 55, 7934-7937.	4.1	27
22	Hydrogenâ^'Deuterium Exchange and Selective Labeling of Deprotonated Amino Acids and Peptides in the Gas Phase. Journal of the American Chemical Society, 2008, 130, 8-9.	13.7	25
23	New Energy Setup Strategy for Intact N-Glycopeptides Characterization Using Higher-Energy Collisional Dissociation. Journal of the American Society for Mass Spectrometry, 2020, 31, 651-657.	2.8	23
24	A Comparative Study of Cation and Anion Cluster Reaction Products:Â The Reaction Mechanisms of Lead Clusters with Benzene in Gas Phase. Journal of Physical Chemistry A, 2003, 107, 8484-8491.	2.5	21
25	Experimental and theoretical studies of the interaction of silver cluster cations Agn+ (n = 1-4) with ethylene. Rapid Communications in Mass Spectrometry, 2005, 19, 2893-2904.	1.5	21
26	Top-down protein identification using isotopic envelope fingerprinting. Journal of Proteomics, 2017, 152, 41-47.	2.4	21
27	Facile synthesis of titanium (IV) ion immobilized adenosine triphosphate functionalized silica nanoparticles for highly specific enrichment and analysis of intact phosphoproteins. Journal of Chromatography A, 2018, 1564, 69-75.	3.7	20
28	Selective fragmentation of the Nâ€glycan moiety and protein backbone of ribonuclease B on an Orbitrap Fusion Lumos Tribrid mass spectrometer. Rapid Communications in Mass Spectrometry, 2018, 32, 2031-2039.	1.5	19
29	Mass spectrometry-based qualitative and quantitative N-glycomics: An update of 2017â€“2018. Analytica Chimica Acta, 2019, 1091, 1-22.	5.4	18
30	Quantitative site- and structure-specific N-glycoproteomics characterization of differential N-glycosylation in MCF-7/ADR cancer stem cells. Clinical Proteomics, 2020, 17, 3.	2.1	16
31	A mini-TOF photofragment translational spectrometer â€“ photofragmentation of CF3I at 281.73 nm. Chemical Physics Letters, 2004, 400, 15-18.	2.6	15
32	Siteâ€and Structureâ€Specific Quantitative Nâ€Glycoproteomics Using RPLCâ€pentaHILIC Separation and the Intact Nâ€Glycopeptide Search Engine GPSeeker. Current Protocols in Protein Science, 2019, 97, e94.	2.8	15
33	Reactions of lead cluster ions with acetone. Rapid Communications in Mass Spectrometry, 2003, 17, 17-23.	1.5	14
34	Accurate and Efficient Resolution of Overlapping Isotopic Envelopes in Protein Tandem Mass Spectra. Scientific Reports, 2015, 5, 14755.	3.3	14
35	Facile synthesis of titanium(IV) ionâ€immobilized polyâ€glycidyl methacrylate microparticles functionalized with polyethylenimine and adenosine triphosphate for highly specific enrichment of intact phosphoproteins. Journal of Separation Science, 2018, 41, 4194-4202.	2.5	14
36	A quantitative N-glycoproteomics study of cell-surface N-glycoprotein markers of MCF-7/ADR cancer stem cells. Analytical and Bioanalytical Chemistry, 2020, 412, 2423-2432.	3.7	14

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37	Siteâ€•and structureâ€•specific characterization of the human urinary Nâ€‘glycoproteome with siteâ€‘determining and structureâ€‘diagnostic product ions. Rapid Communications in Mass Spectrometry, 2021, 35, e8952.	1.5	14
38	Are neutral loss and internal product ions useful for top-down protein identification?. Journal of Proteomics, 2017, 160, 21-27.	2.4	13
39	Reactions of lead cluster ions with ethylene, propene,trans-butene, andcis-butene. Rapid Communications in Mass Spectrometry, 2002, 16, 1515-1520.	1.5	11
40	High-resolution photofragment translational spectra of the photodissociation of CF3I at 248 nm. Chemical Physics Letters, 2003, 380, 600-603.	2.6	11
41	Site- and structure-specific quantitative N-glycoproteomics study of differential N-glycosylation in MCF-7 cancer cells. Journal of Proteomics, 2020, 212, 103594.	2.4	11
42	Benchmark of site- and structure-specific quantitative tissue N-glycoproteomics for discovery of potential N-glycoprotein markers: a case study of pancreatic cancer. Glycoconjugate Journal, 2021, 38, 213-231.	2.7	11
43	Large-scale identification and visualization of human liver N-glycome enriched from LO2 cells. Analytical and Bioanalytical Chemistry, 2018, 410, 4195-4202.	3.7	10
44	Quantitative N-glycoproteomics using stable isotopic diethyl labeling. Talanta, 2020, 219, 121359.	5.5	10
45	Reactions between M+ (M = Si, Ge, Sn and Pb) and benzene in the gas phase. Rapid Communications in Mass Spectrometry, 2003, 17, 1743-1748.	1.5	9
46	A Thermal Decarbonylation of Penam Î²-Lactams. Journal of Organic Chemistry, 2008, 73, 3024-3031.	3.2	9
47	A redetermination of the heats of formation of chloro- and dichlorocarbene and the deprotonation of methyl cation, a spin forbidden process?. International Journal of Mass Spectrometry, 2007, 267, 288-294.	1.5	8
48	N-Glycoproteomics Study of Putative N-Glycoprotein Biomarkers of Drug Resistance in MCF-7/ADR Cells. Phenomics, 2021, 1, 269-284.	2.9	8
49	Organic gas-phase ion chemistry. Annual Reports on the Progress of Chemistry Section B, 2006, 102, 290.	0.9	7
50	Mass measurement accuracy of the Orbitrap in intact proteome analysis. Rapid Communications in Mass Spectrometry, 2016, 30, 1391-1397.	1.5	7
51	Mapping Influenza-Induced Posttranslational Modifications on Histones from CD8+ T Cells. Viruses, 2020, 12, 1409.	3.3	7
52	Methylation of PhoP by CheR Regulates Salmonella Virulence. MBio, 2021, 12, e0209921.	4.1	7
53	Top-down characterization of chicken core histones. Journal of Proteomics, 2018, 184, 34-38.	2.4	6
54	Putative N-glycoprotein markers of MCF-7/ADR cancer stem cells from N-glycoproteomics characterization of the whole cell lysate. Talanta, 2021, 232, 122437.	5.5	6

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55	Top-down characterization of histone H4 proteoforms with ProteinGoggle 2.0. Chinese Journal of Chromatography (Se Pu), 2016, 34, 1255.	0.8	6
56	H/D exchange pathways: Flip-flop and relay processes. International Journal of Mass Spectrometry, 2015, 377, 130-138.	1.5	5
57	Accurate phosphorylation site localization using phospho-brackets. Analytica Chimica Acta, 2017, 996, 38-47.	5.4	5
58	Progress in quantification of nicotine content and form distribution in electronic cigarette liquids and aerosols. Analytical Methods, 2022, 14, 359-377.	2.7	5
59	Structure-Specific N-Glycoproteomics Characterization of NIST Monoclonal Antibody Reference Material 8671. Journal of Proteome Research, 2022, 21, 1276-1284.	3.7	5
60	Comprehensive site- and structure-specific characterization of N-glycosylation in model plant Arabidopsis using mass-spectrometry-based N-glycoproteomics. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2022, 1198, 123234.	2.3	5
61	Carbonâ€“Hydrogen Bond Dissociation Energies: The Curious Case of Cyclopropene. Journal of Organic Chemistry, 2013, 78, 12650-12653.	3.2	4
62	Topâ€down characterization of mouse core histones. Journal of Mass Spectrometry, 2019, 54, 258-265.	1.6	4
63	Enrichment of intact phosphoproteins using immobilized titanium(IV) affinity chromatography microspheres. Separation Science Plus, 2018, 1, 93-99.	0.6	3
64	Comparative Glycomics Study of Cell-Surface N-Glycomes of HepG2 versus LO2 Cell Lines. Journal of Proteome Research, 2018, 18, 372-379.	3.7	3
65	Large-Scale Identification and Fragmentation Pathways Analysis of N-Glycans from Mouse Brain. Journal of the American Society for Mass Spectrometry, 2019, 30, 1254-1261.	2.8	3
66	Separation and detection of minimal length glycopeptide neoantigen epitopes centering the GSTA region of MUC1 by liquid chromatography/mass spectrometry. Rapid Communications in Mass Spectrometry, 2020, 34, e8622.	1.5	3
67	Proton transfer in the [Mâ‹¯Hâ‹¯NH3]+ system (M=1,4-dioxane). Computational and Theoretical Chemistry, 2002, 578, 135-143.	1.5	2
68	Exploration of quantitative siteâ€specific serum Oâ€glycoproteomics with isobaric labeling for the discovery of putative Oâ€glycoprotein biomarkers. Proteomics - Clinical Applications, 2022, 16, e2100095.	1.6	2
69	Optimization and parallelization of the isotopic Mass-to-charge ratio and envelope fingerprinting algorithm on SuperVessel Cloud. , 2015, , .		0