

Zhixin Tian

List of Publications by Citations

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

70
papers

1,679
citations

21
h-index

39
g-index

77
ext. papers

2,098
ext. citations

7.2
avg. IF

4.96
L-index

#	Paper	IF	Citations
70	A vaccine targeting the RBD of the S protein of SARS-CoV-2 induces protective immunity. <i>Nature</i> , 2020 , 586, 572-577	50.4	348
69	Does electrospray ionization produce gas-phase or liquid-phase structures?. <i>Journal of the American Chemical Society</i> , 2008 , 130, 10842-3	16.4	108
68	Enhanced top-down characterization of histone post-translational modifications. <i>Genome Biology</i> , 2012 , 13, R86	18.3	105
67	Gas-phase versus liquid-phase structures by electrospray ionization mass spectrometry. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1321-3	16.4	79
66	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. <i>Journal of the American Chemical Society</i> , 2007 , 129, 5403-7	16.4	76
65	Cycloalkane and cycloalkene C-H bond dissociation energies. <i>Journal of the American Chemical Society</i> , 2006 , 128, 17087-92	16.4	68
64	Single-centered hydrogen-bonded enhanced acidity (SHEA) acids: a new class of Brønsted acids. <i>Journal of the American Chemical Society</i> , 2009 , 131, 16984-8	16.4	67
63	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. <i>Journal of the American Chemical Society</i> , 2009 , 131, 1174-81	16.4	62
62	Mapping N-linked glycosylation sites in the secretome and whole cells of <i>Aspergillus niger</i> using hydrazide chemistry and mass spectrometry. <i>Journal of Proteome Research</i> , 2012 , 11, 143-56	5.6	53
61	The heat of formation of cyclobutadiene. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 4984-8	16.4	50
60	Two-dimensional liquid chromatography system for online top-down mass spectrometry. <i>Proteomics</i> , 2010 , 10, 3610-20	4.8	42
59	GPSeeker Enables Quantitative Structural N-Glycoproteomics for Site- and Structure-Specific Characterization of Differentially Expressed N-Glycosylation in Hepatocellular Carcinoma. <i>Journal of Proteome Research</i> , 2019 , 18, 2885-2895	5.6	38
58	Pressurized pepsin digestion in proteomics: an automatable alternative to trypsin for integrated top-down bottom-up proteomics. <i>Molecular and Cellular Proteomics</i> , 2011 , 10, M110.001479	7.6	36
57	Lithium monoxide anion: a ground-state triplet with the strongest base to date. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 7647-51	11.5	34
56	Carbanions in the gas phase. <i>Chemical Reviews</i> , 2013 , 113, 6986-7010	68.1	32
55	Interpreting raw biological mass spectra using isotopic mass-to-charge ratio and envelope fingerprinting. <i>Rapid Communications in Mass Spectrometry</i> , 2013 , 27, 1267-77	2.2	25
54	Hydrogen-deuterium exchange and selective labeling of deprotonated amino acids and peptides in the gas phase. <i>Journal of the American Chemical Society</i> , 2008 , 130, 8-9	16.4	24

53	Magic bimetallic cluster anions of M/Pb (M = Au, Ag and Cu) observed and analyzed by laser ablation and time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2003 , 17, 1411-5	2.2	23
52	Intact Protein Quantitation Using Pseudoisobaric Dimethyl Labeling. <i>Analytical Chemistry</i> , 2016 , 88, 7198-205	2.2	22
51	A Comparative Study of Cation and Anion Cluster Reaction Products: The Reaction Mechanisms of Lead Clusters with Benzene in Gas Phase. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 8484-8491	2.8	21
50	Large-scale identification and visualization of N-glycans with primary structures using GlySeeker. <i>Rapid Communications in Mass Spectrometry</i> , 2018 , 32, 142-148	2.2	21
49	Top-down protein identification using isotopic envelope fingerprinting. <i>Journal of Proteomics</i> , 2017 , 152, 41-47	3.9	19
48	Site- and structure-specific characterization of N-glycoprotein markers of MCF-7 cancer stem cells using isotopic-labelling quantitative N-glycoproteomics. <i>Chemical Communications</i> , 2019 , 55, 7934-7937	5.8	18
47	Experimental and theoretical studies of the interaction of silver cluster cations Ag(n) ⁺ (n = 1-4) with ethylene. <i>Rapid Communications in Mass Spectrometry</i> , 2005 , 19, 2893-904	2.2	16
46	Selective fragmentation of the N-glycan moiety and protein backbone of ribonuclease B on an Orbitrap Fusion Lumos Tribrid mass spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 2018 , 32, 2031-2039	2.2	16
45	A mini-TOF photofragment translational spectrometer [photofragmentation of CF ₃ I at 281.73 nm. <i>Chemical Physics Letters</i> , 2004 , 400, 15-18	2.5	14
44	Facile synthesis of titanium (IV) ion immobilized adenosine triphosphate functionalized silica nanoparticles for highly specific enrichment and analysis of intact phosphoproteins. <i>Journal of Chromatography A</i> , 2018 , 1564, 69-75	4.5	14
43	The glycosylation in SARS-CoV-2 and its receptor ACE2. <i>Signal Transduction and Targeted Therapy</i> , 2021 , 6, 396	21	13
42	Facile synthesis of titanium(IV) ion-immobilized poly-glycidyl methacrylate microparticles functionalized with polyethylenimine and adenosine triphosphate for highly specific enrichment of intact phosphoproteins. <i>Journal of Separation Science</i> , 2018 , 41, 4194-4202	3.4	13
41	Are neutral loss and internal product ions useful for top-down protein identification?. <i>Journal of Proteomics</i> , 2017 , 160, 21-27	3.9	12
40	Quantitative site- and structure-specific N-glycoproteomics characterization of differential N-glycosylation in MCF-7/ADR cancer stem cells. <i>Clinical Proteomics</i> , 2020 , 17, 3	5	12
39	New Energy Setup Strategy for Intact N-Glycopeptides Characterization Using Higher-Energy Collisional Dissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 2020 , 31, 651-657	3.5	12
38	Accurate and Efficient Resolution of Overlapping Isotopic Envelopes in Protein Tandem Mass Spectra. <i>Scientific Reports</i> , 2015 , 5, 14755	4.9	12
37	Reactions of lead cluster ions with acetone. <i>Rapid Communications in Mass Spectrometry</i> , 2003 , 17, 17-23	2.2	12
36	Mass spectrometry-based qualitative and quantitative N-glycomics: An update of 2017-2018. <i>Analytica Chimica Acta</i> , 2019 , 1091, 1-22	6.6	11

35	Site- and Structure-Specific Quantitative N-Glycoproteomics Using RPLC-pentaHILIC Separation and the Intact N-Glycopeptide Search Engine GPSeeker. <i>Current Protocols in Protein Science</i> , 2019 , 97, e94	3.1	10
34	Gas-Phase versus Liquid-Phase Structures by Electrospray Ionization Mass Spectrometry. <i>Angewandte Chemie</i> , 2009 , 121, 1347-1349	3.6	10
33	The Heat of Formation of Cyclobutadiene. <i>Angewandte Chemie</i> , 2006 , 118, 5106-5110	3.6	10
32	High-resolution photofragment translational spectra of the photodissociation of CF ₃ I at 248 nm. <i>Chemical Physics Letters</i> , 2003 , 380, 600-603	2.5	10
31	Reactions of lead cluster ions with ethylene, propene, trans-butene, and cis-butene. <i>Rapid Communications in Mass Spectrometry</i> , 2002 , 16, 1515-1520	2.2	9
30	A quantitative N-glycoproteomics study of cell-surface N-glycoprotein markers of MCF-7/ADR cancer stem cells. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 2423-2432	4.4	7
29	A redetermination of the heats of formation of chloro- and dichlorocarbene and the deprotonation of methyl cation, a spin forbidden process?. <i>International Journal of Mass Spectrometry</i> , 2007 , 267, 288-294	1.9	7
28	Reactions between M ⁺ (M = Si, Ge, Sn and Pb) and benzene in the gas phase. <i>Rapid Communications in Mass Spectrometry</i> , 2003 , 17, 1743-8	2.2	7
27	Site- and structure-specific quantitative N-glycoproteomics study of differential N-glycosylation in MCF-7 cancer cells. <i>Journal of Proteomics</i> , 2020 , 212, 103594	3.9	7
26	A thermal decarbonylation of penam beta-lactams. <i>Journal of Organic Chemistry</i> , 2008 , 73, 3024-31	4.2	6
25	Quantitative N-glycoproteomics using stable isotopic diethyl labeling. <i>Talanta</i> , 2020 , 219, 121359	6.2	5
24	Large-scale identification and visualization of human liver N-glycome enriched from LO2 cells. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 4195-4202	4.4	5
23	Organic gas-phase ion chemistry. <i>Annual Reports on the Progress of Chemistry Section B</i> , 2006 , 102, 290		5
22	Top-down characterization of histone H4 proteoforms with ProteinGoggle 2.0. <i>Chinese Journal of Chromatography (Se Pu)</i> , 2016 , 34, 1255	0.2	5
21	Top-down characterization of chicken core histones. <i>Journal of Proteomics</i> , 2018 , 184, 34-38	3.9	5
20	Accurate phosphorylation site localization using phospho-brackets. <i>Analytica Chimica Acta</i> , 2017 , 996, 38-47	6.6	4
19	H/D exchange pathways: Flip-flop and relay processes. <i>International Journal of Mass Spectrometry</i> , 2015 , 377, 130-138	1.9	4
18	Carbon-hydrogen bond dissociation energies: the curious case of cyclopropene. <i>Journal of Organic Chemistry</i> , 2013 , 78, 12650-3	4.2	4

17	Site- and structure-specific characterization of the human urinary N-glycoproteome with site-determining and structure-diagnostic product ions. <i>Rapid Communications in Mass Spectrometry</i> , 2021 , 35, e8952	2.2	4
16	Mapping Influenza-Induced Posttranslational Modifications on Histones from CD8+ T Cells. <i>Viruses</i> , 2020 , 12,	6.2	3
15	Enrichment of intact phosphoproteins using immobilized titanium(IV) affinity chromatography microspheres. <i>Separation Science Plus</i> , 2018 , 1, 93-99	1.1	3
14	Proton transfer in the $[M^?H^?NH_3]^+$ system (M=1,4-dioxane). <i>Computational and Theoretical Chemistry</i> , 2002 , 578, 135-143		2
13	Benchmark of site- and structure-specific quantitative tissue N-glycoproteomics for discovery of potential N-glycoprotein markers: a case study of pancreatic cancer. <i>Glycoconjugate Journal</i> , 2021 , 38, 213-231	3	2
12	Mass measurement accuracy of the Orbitrap in intact proteome analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2016 , 30, 1391-7	2.2	2
11	Comparative Glycomics Study of Cell-Surface N-Glycomes of HepG2 versus LO2 Cell Lines. <i>Journal of Proteome Research</i> , 2019 , 18, 372-379	5.6	2
10	Methylation of PhoP by CheR Regulates Virulence. <i>MBio</i> , 2021 , 12, e0209921	7.8	2
9	Putative N-glycoprotein markers of MCF-7/ADR cancer stem cells from N-glycoproteomics characterization of the whole cell lysate. <i>Talanta</i> , 2021 , 232, 122437	6.2	2
8	Top-down characterization of mouse core histones. <i>Journal of Mass Spectrometry</i> , 2019 , 54, 258-265	2.2	2
7	Large-Scale Identification and Fragmentation Pathways Analysis of N-Glycans from Mouse Brain. <i>Journal of the American Society for Mass Spectrometry</i> , 2019 , 30, 1254-1261	3.5	1
6	N-Glycoproteomics Study of Putative N-Glycoprotein Biomarkers of Drug Resistance in MCF-7/ADR Cells. <i>Phenomics</i> , 2021 , 1, 269		1
5	Separation and detection of minimal length glycopeptide neoantigen epitopes centering the GSTA region of MUC1 by liquid chromatography/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2020 , 34, e8622	2.2	1
4	Exploration of quantitative site-specific serum O-glycoproteomics with isobaric labelling for the discovery of putative O-glycoprotein biomarkers.. <i>Proteomics - Clinical Applications</i> , 2022 , e2100095	3.1	1
3	GPU-Accelerated Algorithm for Fast Computation of Biomolecular Isotopic Envelopes. <i>Lecture Notes in Computer Science</i> , 2015 , 581-591	0.9	0
2	Comprehensive site- and structure-specific characterization of N-glycosylation in model plant Arabidopsis using mass-spectrometry-based N-glycoproteomics.. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2022 , 1198, 123234	3.2	0
1	Proteoform Identification and Quantification Using Intact Protein Database Search Engine ProteinGoggle. <i>Methods in Molecular Biology</i> , 2022 , 131-144	1.4	