Zhixin Tian

List of Publications by Year in Descending Order

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	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	3.2	0
69	Exploration of quantitative site-specific serum O-glycoproteomics with isobaric labelling for the discovery of putative O-glycoprotein biomarkers.. *Proteomics - Clinical Applications*, **2022**, e2100095	3.1	1
68	Proteoform Identification and Quantification Using Intact Protein Database Search Engine ProteinGoggle. *Methods in Molecular Biology*, **2022**, 131-144	1.4	
67	The glycosylation in SARS-CoV-2 and its receptor ACE2. *Signal Transduction and Targeted Therapy*, **2021**, 6, 396	21	13
66	N-Glycoproteomics Study of Putative N-Glycoprotein Biomarkers of Drug Resistance in MCF-7/ADR Cells. *Phenomics*, **2021**, 1, 269		1
65	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	3	2
64	Site- and structure-specific characterization of the human urinary N-glycoproteome with site-determining and structure-diagnostic product ions. *Rapid Communications in Mass Spectrometry* , **2021**, 35, e8952	2.2	4
63	Methylation of PhoP by CheR Regulates Virulence. *MBio*, **2021**, 12, e0209921	7.8	2
62	Putative N-glycoprotein markers of MCF-7/ADR cancer stem cells from N-glycoproteomics characterization of the whole cell lysate. *Talanta*, **2021**, 232, 122437	6.2	2
61	Mapping Influenza-Induced Posttranslational Modifications on Histones from CD8+ T Cells. *Viruses*, **2020**, 12,	6.2	3
60	Quantitative N-glycoproteomics using stable isotopic diethyl labeling. *Talanta*, **2020**, 219, 121359	6.2	5
59	Quantitative site- and structure-specific N-glycoproteomics characterization of differential N-glycosylation in MCF-7/ADR cancer stem cells. *Clinical Proteomics*, **2020**, 17, 3	5	12
58	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	3.5	12
57	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	4.4	7
56	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	2.2	1
55	Site- and structure-specific quantitative N-glycoproteomics study of differential N-glycosylation in MCF-7 cancer cells. *Journal of Proteomics*, **2020**, 212, 103594	3.9	7
54	A vaccine targeting the RBD of the S protein of SARS-CoV-2 induces protective immunity. *Nature*, **2020**, 586, 572-577	50.4	348

53	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	3.5	1
52	Site- and structure-specific characterization of N-glycoprotein markers of MCF-7 cancer stem cells using isotopic-labelling quantitative N-glycoproteomics. *Chemical Communications*, **2019**, 55, 7934-7937	5.8	18
51	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	5.6	38
50	Site- and Structure-Specific Quantitative N-Glycoproteomics Using RPLC-pentaHILIC Separation and the Intact N-Glycopeptide Search Engine GPSeeker. *Current Protocols in Protein Science*, **2019**, 97, e94	3.1	10
49	Mass spectrometry-based qualitative and quantitative N-glycomics: An update of 2017-2018. *Analytica Chimica Acta*, **2019**, 1091, 1-22	6.6	11
48	Comparative Glycomics Study of Cell-Surface N-Glycomes of HepG2 versus LO2 Cell Lines. *Journal of Proteome Research*, **2019**, 18, 372-379	5.6	2
47	Top-down characterization of mouse core histones. *Journal of Mass Spectrometry*, **2019**, 54, 258-265	2.2	2
46	Enrichment of intact phosphoproteins using immobilized titanium(IV) affinity chromatography microspheres. *Separation Science Plus*, **2018**, 1, 93-99	1.1	3
45	Large-scale identification and visualization of human liver N-glycome enriched from LO2 cells. *Analytical and Bioanalytical Chemistry*, **2018**, 410, 4195-4202	4.4	5
44	Large-scale identification and visualization of N-glycans with primary structures using GlySeeker. *Rapid Communications in Mass Spectrometry*, **2018**, 32, 142-148	2.2	21
43	Facile synthesis of titanium(IV) ion-immobilized poly-glycidyl methacrylate microparticles functionalized with polyethylenimine and adenosine triphosphate for highly specific enrichment of intact phosphoproteins. *Journal of Separation Science*, **2018**, 41, 4194-4202	3.4	13
42	Selective fragmentation of the N-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	2.2	16
41	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	4.5	14
40	Top-down characterization of chicken core histones. *Journal of Proteomics*, **2018**, 184, 34-38	3.9	5
39	Are neutral loss and internal product ions useful for top-down protein identification?. *Journal of Proteomics*, **2017**, 160, 21-27	3.9	12
38	Accurate phosphorylation site localization using phospho-brackets. *Analytica Chimica Acta*, **2017**, 996, 38-47	6.6	4
37	Top-down protein identification using isotopic envelope fingerprinting. *Journal of Proteomics*, **2017** , 152, 41-47	3.9	19
36	Top-down characterization of histone H4 proteoforms with ProteinGoggle 2.0. *Chinese Journal of Chromatography (Se Pu)*, **2016**, 34, 1255	0.2	5

35	Mass measurement accuracy of the Orbitrap in intact proteome analysis. *Rapid Communications in Mass Spectrometry*, **2016**, 30, 1391-7	2.2	2
34	Intact Protein Quantitation Using Pseudoisobaric Dimethyl Labeling. *Analytical Chemistry*, **2016**, 88, 7198-205	6.2	22
33	H/D exchange pathways: Flip-flop and relay processes. *International Journal of Mass Spectrometry*, **2015**, 377, 130-138	1.9	4
32	Accurate and Efficient Resolution of Overlapping Isotopic Envelopes in Protein Tandem Mass Spectra. *Scientific Reports*, **2015**, 5, 14755	4.9	12
31	GPU-Accelerated Algorithm for Fast Computation of Biomolecular Isotopic Envelopes. *Lecture Notes in Computer Science*, **2015**, 581-591	0.9	0
30	Carbanions in the gas phase. *Chemical Reviews*, **2013**, 113, 6986-7010	68.1	32
29	Carbon-hydrogen bond dissociation energies: the curious case of cyclopropene. *Journal of Organic Chemistry*, **2013**, 78, 12650-3	4.2	4
28	Interpreting raw biological mass spectra using isotopic mass-to-charge ratio and envelope fingerprinting. *Rapid Communications in Mass Spectrometry*, **2013**, 27, 1267-77	2.2	25
27	Enhanced top-down characterization of histone post-translational modifications. *Genome Biology*, **2012**, 13, R86	18.3	105
26	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, 143-56	5.6	53
25	Pressurized pepsin digestion in proteomics: an automatable alternative to trypsin for integrated top-down bottom-up proteomics. *Molecular and Cellular Proteomics*, **2011**, 10, M110.001479	7.6	36
24	Two-dimensional liquid chromatography system for online top-down mass spectrometry. *Proteomics*, **2010**, 10, 3610-20	4.8	42
23	Gas-Phase versus Liquid-Phase Structures by Electrospray Ionization Mass Spectrometry. *Angewandte Chemie*, **2009**, 121, 1347-1349	3.6	10
22	Gas-phase versus liquid-phase structures by electrospray ionization mass spectrometry. *Angewandte Chemie - International Edition*, **2009**, 48, 1321-3	16.4	79
21	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, 1174-81	16.4	62
20	Single-centered hydrogen-bonded enhanced acidity (SHEA) acids: a new class of Brønsted acids. *Journal of the American Chemical Society*, **2009**, 131, 16984-8	16.4	67
19	Hydrogen-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	16.4	24
18	Does electrospray ionization produce gas-phase or liquid-phase structures?. *Journal of the American Chemical Society*, **2008**, 130, 10842-3	16.4	108

17	A thermal decarbonylation of penam beta-lactams. *Journal of Organic Chemistry*, **2008**, 73, 3024-31	4.2	6
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, 7647-51	11.5	34
15	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	1.9	7
14	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, 5403-7	16.4	76
13	The heat of formation of cyclobutadiene. *Angewandte Chemie - International Edition*, **2006**, 45, 4984-8	16.4	50
12	The Heat of Formation of Cyclobutadiene. *Angewandte Chemie*, **2006**, 118, 5106-5110	3.6	10
11	Cycloalkane and cycloalkene C-H bond dissociation energies. *Journal of the American Chemical Society*, **2006**, 128, 17087-92	16.4	68
10	Organic gas-phase ion chemistry. *Annual Reports on the Progress of Chemistry Section B*, **2006**, 102, 290		5
9	Experimental and theoretical studies of the interaction of silver cluster cations Ag(n)+ (n = 1-4) with ethylene. *Rapid Communications in Mass Spectrometry*, **2005**, 19, 2893-904	2.2	16
8	A mini-TOF photofragment translational spectrometer □photofragmentation of CF3I at 281.73 nm. *Chemical Physics Letters*, **2004**, 400, 15-18	2.5	14
7	High-resolution photofragment translational spectra of the photodissociation of CF3I at 248 nm. *Chemical Physics Letters*, **2003**, 380, 600-603	2.5	10
6	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, 1411-5	2.2	23
5	Reactions between M+ (M = Si, Ge, Sn and Pb) and benzene in the gas phase. *Rapid Communications in Mass Spectrometry*, **2003**, 17, 1743-8	2.2	7
4	Reactions of lead cluster ions with acetone. *Rapid Communications in Mass Spectrometry*, **2003**, 17, 17-23	2.2	12
3	A Comparative Study of Cation and Anion Cluster Reaction Products:□The Reaction Mechanisms of Lead Clusters with Benzene in Gas Phase. *Journal of Physical Chemistry A*, **2003**, 107, 8484-8491	2.8	21
2	Proton transfer in the [M?H?NH3]+ system (M=1,4-dioxane). *Computational and Theoretical Chemistry*, **2002**, 578, 135-143		2
1	Reactions of lead cluster ions with ethylene, propene, trans-butene, and cis-butene. *Rapid Communications in Mass Spectrometry*, **2002**, 16, 1515-1520	2.2	9