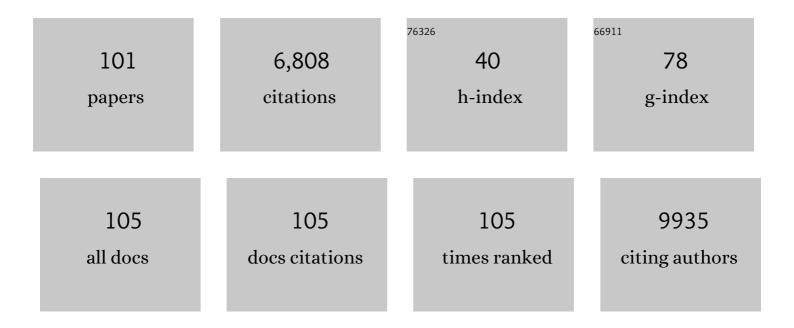
Sheng Zhang

List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	Sirt5 Is a NAD-Dependent Protein Lysine Demalonylase and Desuccinylase. Science, 2011, 334, 806-809.	12.6	1,165
2	ER Stress Sensor XBP1 Controls Anti-tumor Immunity by Disrupting Dendritic Cell Homeostasis. Cell, 2015, 161, 1527-1538.	28.9	639
3	A Fully Integrated Monolithic Microchip Electrospray Device for Mass Spectrometry. Analytical Chemistry, 2000, 72, 4058-4063.	6.5	340
4	Metabolomics-assisted proteomics identifies succinylation and SIRT5 as important regulators of cardiac function. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4320-4325.	7.1	263
5	IRE1α–XBP1 controls T cell function in ovarian cancer by regulating mitochondrial activity. Nature, 2018, 562, 423-428.	27.8	252
6	Proinflammatory IgG Fc structures in patients with severe COVID-19. Nature Immunology, 2021, 22, 67-73.	14.5	239
7	Quantitative Determination of Noncovalent Binding Interactions Using Automated Nanoelectrospray Mass Spectrometry. Analytical Chemistry, 2003, 75, 3010-3018.	6.5	157
8	The Penium margaritaceum Genome: Hallmarks of the Origins of Land Plants. Cell, 2020, 181, 1097-1111.e12.	28.9	153
9	Physiological and proteomic responses of two contrasting <i>Populus cathayana</i> populations to drought stress. Physiologia Plantarum, 2009, 136, 150-168.	5.2	149
10	Production of Secretory and Extracellular N-Linked Glycoproteins in <i>Escherichia coli</i> . Applied and Environmental Microbiology, 2011, 77, 871-881.	3.1	112
11	Quantitative Proteomic Analysis Reveals that Antioxidation Mechanisms Contribute to Cold Tolerance in Plantain (Musa paradisiaca L.; ABB Group) Seedlings. Molecular and Cellular Proteomics, 2012, 11, 1853-1869.	3.8	110
12	Evaluation of Different Multidimensional LC–MS/MS Pipelines for Isobaric Tags for Relative and Absolute Quantitation (iTRAQ)-Based Proteomic Analysis of Potato Tubers in Response to Cold Storage. Journal of Proteome Research, 2011, 10, 4647-4660.	3.7	108
13	Comparative transcriptomics analysis reveals difference of key gene expression between banana and plantain in response to cold stress. BMC Genomics, 2015, 16, 446.	2.8	105
14	Alphaâ€ketoglutarate dehydrogenase complexâ€dependent succinylation of proteins in neurons and neuronal cell lines. Journal of Neurochemistry, 2015, 134, 86-96.	3.9	96
15	Development of an integrated approach for evaluation of 2-D gel image analysis: Impact of multiple proteins in single spots on comparative proteomics in conventional 2-D gel/MALDI workflow. Electrophoresis, 2007, 28, 2080-2094.	2.4	94
16	Automated chip-based nanoelectrospray-mass spectrometry for rapid identification of proteins separated by two-dimensional gel electrophoresis. Electrophoresis, 2003, 24, 3620-3632.	2.4	92
17	Proteomic analysis reveals dynamic regulation of fruit development and sugar and acid accumulation in apple. Journal of Experimental Botany, 2016, 67, 5145-5157.	4.8	84
18	Adaption of Roots to Nitrogen Deficiency Revealed by 3D Quantification and Proteomic Analysis. Plant Physiology, 2019, 179, 329-347.	4.8	81

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19	Physiological and proteome analysis suggest critical roles for the photosynthetic system for high water-use efficiency under drought stress in Malus. Plant Science, 2015, 236, 44-60.	3.6	77
20	A fully automated nanoelectrospray tandem mass spectrometric method for analysis of Caco-2 samples. Rapid Communications in Mass Spectrometry, 2003, 17, 1573-1578.	1.5	75
21	Melatonin regulates proteomic changes during leaf senescence in <i>Malus hupehensis</i> . Journal of Pineal Research, 2014, 57, 291-307.	7.4	74
22	Early non-neutralizing, afucosylated antibody responses are associated with COVID-19 severity. Science Translational Medicine, 2022, 14, eabm7853.	12.4	71
23	Single Mutations in the VP2 300 Loop Region of the Three-Fold Spike of the Carnivore Parvovirus Capsid Can Determine Host Range. Journal of Virology, 2016, 90, 753-767.	3.4	65
24	Engineered oligosaccharyltransferases with greatly relaxed acceptor-site specificity. Nature Chemical Biology, 2014, 10, 816-822.	8.0	63
25	Enabling proteomic studies with RNAâ€Seq: The proteome of tomato pollen as a test case. Proteomics, 2012, 12, 761-774.	2.2	62
26	Cerebral ischemia induces the aggregation of proteins linked to neurodegenerative diseases. Scientific Reports, 2018, 8, 2701.	3.3	62
27	Absolute quantification of <i>Dehalococcoides</i> proteins: enzyme bioindicators of chlorinated ethene dehalorespiration. Environmental Microbiology, 2009, 11, 2687-2697.	3.8	56
28	Akt3 is a privileged first responder in isozyme-specific electrophile response. Nature Chemical Biology, 2017, 13, 333-338.	8.0	56
29	A Comparative Study of Lectin Affinity Based Plant N-Glycoproteome Profiling Using Tomato Fruit as a Model. Molecular and Cellular Proteomics, 2014, 13, 566-579.	3.8	55
30	FcRn, but not Fcl ³ Rs, drives maternal-fetal transplacental transport of human IgG antibodies. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12943-12951.	7.1	55
31	Hostâ€induced gene silencing of <i>Foc </i> <scp>TR</scp> 4 <i><scp>ERG</scp>6/11</i> genes exhibits superior resistance to Fusarium wilt of banana. Plant Biotechnology Journal, 2020, 18, 11-13.	8.3	53
32	Proteomic Comparison of Historic and Recently Emerged Hypervirulent <i>Clostridium difficile</i> Strains. Journal of Proteome Research, 2013, 12, 1151-1161.	3.7	52
33	In Planta Processing and Glycosylation of a Nematode CLAVATA3/ENDOSPERM SURROUNDING REGION-Like Effector and Its Interaction with a Host CLAVATA2-Like Receptor to Promote Parasitism. Plant Physiology, 2015, 167, 262-272.	4.8	52
34	Proteomic analysis of conidia germination in Fusarium oxysporum f. sp. cubense tropical race 4 reveals new targets in ergosterol biosynthesis pathway for controlling Fusarium wilt of banana. Applied Microbiology and Biotechnology, 2015, 99, 7189-7207.	3.6	52
35	Evaluation of six sample preparation procedures for qualitative and quantitative proteomics analysis of milk fat globule membrane. Electrophoresis, 2018, 39, 2332-2339.	2.4	52
36	Ube2V2 Is a Rosetta Stone Bridging Redox and Ubiquitin Codes, Coordinating DNA Damage Responses. ACS Central Science, 2018, 4, 246-259.	11.3	51

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37	The proteomic profiling of multiple tissue damage in chickens for a selenium deficiency biomarker discovery. Food and Function, 2020, 11, 1312-1321.	4.6	51
38	Regulation of Phenylalanine Biosynthesis. Studies on the Mechanism of Phenylalanine Binding and Feedback Inhibition in theEscherichia coliP-Proteinâ€. Biochemistry, 1999, 38, 12212-12217.	2.5	48
39	Ao38, a new cell line from eggs of the black witch moth, Ascalapha odorata (Lepidoptera: Noctuidae), is permissive for AcMNPV infection and produces high levels of recombinant proteins. BMC Biotechnology, 2010, 10, 50.	3.3	46
40	The Cysteine-rich Domain of the DHHC3 Palmitoyltransferase Is Palmitoylated and Contains Tightly Bound Zinc. Journal of Biological Chemistry, 2015, 290, 29259-29269.	3.4	46
41	Challenges and Opportunities in Clinical Applications of Blood-Based Proteomics in Cancer. Cancers, 2020, 12, 2428.	3.7	46
42	Label-free Quantitative Analysis of Changes in Broiler Liver Proteins under Heat Stress using SWATH-MS Technology. Scientific Reports, 2015, 5, 15119.	3.3	44
43	Proteomic characterization of outer membrane vesicles from gut mucosa-derived fusobacterium nucleatum. Journal of Proteomics, 2019, 195, 125-137.	2.4	44
44	Maternal Anti-Dengue IgG Fucosylation Predicts Susceptibility to Dengue Disease in Infants. Cell Reports, 2020, 31, 107642.	6.4	44
45	Chip-based nanoelectrospray mass spectrometry for protein characterization. Expert Review of Proteomics, 2004, 1, 449-468.	3.0	43
46	Identification and characterization of glycation adducts on osteocalcin. Analytical Biochemistry, 2017, 525, 46-53.	2.4	43
47	Altered succinylation of mitochondrial proteins, APP and tau in Alzheimer's disease. Nature Communications, 2022, 13, 159.	12.8	42
48	Comparative characterization of the glycosylation profiles of an influenza hemagglutinin produced in plant and insect hosts. Proteomics, 2012, 12, 1269-1288.	2.2	41
49	Substitute sweeteners: diverse bacterial oligosaccharyltransferases with unique N-glycosylation site preferences. Scientific Reports, 2015, 5, 15237.	3.3	41
50	Application of wide selectedâ€ion monitoring dataâ€independent acquisition to identify tomato fruit proteins regulated by the CUTIN DEFICIENT2 transcription factor. Proteomics, 2016, 16, 2081-2094.	2.2	40
51	Comparative Phosphoproteomics Reveals an Important Role of MKK2 in Banana (Musa spp.) Cold Signal Network. Scientific Reports, 2017, 7, 40852.	3.3	40
52	Mapping and Profiling Lipid Distribution in a 3D Model of Breast Cancer Progression. ACS Central Science, 2019, 5, 768-780.	11.3	40
53	Early Cold-Induced Peroxidases and Aquaporins Are Associated With High Cold Tolerance in Dajiao (Musa spp. â€`Dajiao'). Frontiers in Plant Science, 2018, 9, 282.	3.6	38
54	MaXLinker: Proteome-wide Cross-link Identifications with High Specificity and Sensitivity. Molecular and Cellular Proteomics, 2020, 19, 554-568.	3.8	38

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55	Probing the Catalytic Mechanism of Prephenate Dehydratase by Site-Directed Mutagenesis of theEscherichia coliP-Protein Dehydratase Domainâ€. Biochemistry, 2000, 39, 4722-4728.	2.5	37
56	Estrogen receptor beta modulates permeability transition in brain mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 423-433.	1.0	37
57	Parallel comparative proteomics and phosphoproteomics reveal that cattle <i>myostatin</i> regulates phosphorylation of key enzymes in glycogen metabolism and glycolysis pathway. Oncotarget, 2018, 9, 11352-11370.	1.8	33
58	Cell-derived nanovesicles prepared by membrane extrusion are good substitutes for natural extracellular vesicles. , 2022, 1, 100004.		29
59	Spirochaete flagella hook proteins self-catalyse a lysinoalanine covalent crosslink for motility. Nature Microbiology, 2016, 1, 16134.	13.3	27
60	The ubiquitin ligase HERC3 attenuates NF-κB-dependent transcription independently of its enzymatic activity by delivering the RelA subunit for degradation. Nucleic Acids Research, 2015, 43, gkv1064.	14.5	26
61	Characterization of a fully automated nanoelectrospray system with mass spectrometric detection for proteomic analyses. Journal of Biomolecular Techniques, 2002, 13, 72-84.	1.5	26
62	Aryl Hydrocarbon Receptor Activation by Dioxin Targets Phosphoenolpyruvate Carboxykinase (PEPCK) for ADP-ribosylation via 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)-inducible Poly(ADP-ribose) Polymerase (TiPARP). Journal of Biological Chemistry, 2013, 288, 21514-21525.	3.4	25
63	Integrated proteomic and metabolomic analysis suggests high rates of glycolysis are likely required to support high carotenoid accumulation in banana pulp. Food Chemistry, 2019, 297, 125016.	8.2	25
64	Proteomics insights into the effects of MSTN on muscle glucose and lipid metabolism in genetically edited cattle. General and Comparative Endocrinology, 2020, 291, 113237.	1.8	25
65	Signaling to the apical membrane and to the paracellular pathway: changes in the cytosolic proteome of <i>Aedes</i> Malpighian tubules. Journal of Experimental Biology, 2009, 212, 329-340.	1.7	24
66	Heat treatment of bovine colostrum: I. Effects on bacterial and somatic cell counts, immunoglobulin, insulin, and IGF-I concentrations, as well as the colostrum proteome. Journal of Dairy Science, 2020, 103, 9368-9383.	3.4	24
67	Characterization of protein glycosylation using chip-based infusion nanoelectrospray linear ion trap tandem mass spectrometry. Journal of Biomolecular Techniques, 2004, 15, 120-33.	1.5	23
68	Analytical technologies for identification and characterization of the plant N-glycoproteome. Frontiers in Plant Science, 2012, 3, 150.	3.6	22
69	Atmospheric Ammonia Affects Myofiber Development and Lipid Metabolism in Growing Pig Muscle. Animals, 2020, 10, 2.	2.3	22
70	Heat treatment of bovine colostrum: II. Effects on calf serum immunoglobulin, insulin, and IGF-I concentrations, and the serum proteome. Journal of Dairy Science, 2020, 103, 9384-9406.	3.4	20
71	The Secretome and N-Glycosylation Profiles of the Charophycean Green Alga, Penium margaritaceum, Resemble Those of Embryophytes. Proteomes, 2018, 6, 14.	3.5	17
72	Structure and chemistry of lysinoalanine crosslinking in the spirochaete flagella hook. Nature Chemical Biology, 2019, 15, 959-965.	8.0	17

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73	Both gut microbiota and cytokines act to atherosclerosis in ApoEâ^'/â^' mice. Microbial Pathogenesis, 2020, 138, 103827.	2.9	17
74	A workflow for largeâ€scale empirical identification of cell wall <i>N</i> â€linked glycoproteins of tomato (<i>Solanum lycopersicum</i>) fruit by tandem mass spectrometry. Electrophoresis, 2013, 34, 2417-2431.	2.4	15
75	Reduction of the canonical function of a glycolytic enzyme enolase triggers immune responses that further affect metabolism and growth in Arabidopsis. Plant Cell, 2022, 34, 1745-1767.	6.6	15
76	Temporal Differential Proteomes of Clostridium difficile in the Pig Ileal-Ligated Loop Model. PLoS ONE, 2012, 7, e45608.	2.5	13
77	MaMAPK3-MalCE1-MaPOD P7 pathway, a positive regulator of cold tolerance in banana. BMC Plant Biology, 2021, 21, 97.	3.6	13
78	$HIF1\hat{I}\mathtt{t}$ stabilization in hypoxia is not oxidant-initiated. ELife, 2021, 10, .	6.0	13
79	Characterization of protein glycosylation using chip-based nanoelectrospray with precursor ion scanning quadrupole linear ion trap mass spectrometry. Journal of Biomolecular Techniques, 2005, 16, 209-19.	1.5	13
80	Serum Metabolomic and Lipidomic Profiling Reveals Novel Biomarkers of Efficacy for Benfotiamine in Alzheimer's Disease. International Journal of Molecular Sciences, 2021, 22, 13188.	4.1	13
81	The human brain acetylome reveals that decreased acetylation of mitochondrial proteins associates with Alzheimer's disease. Journal of Neurochemistry, 2021, 158, 282-296.	3.9	11
82	OsNOA1 functions in a threshold-dependent manner to regulate chloroplast proteins in rice at lower temperatures. BMC Plant Biology, 2018, 18, 44.	3.6	10
83	Engineered chemotaxis core signaling units indicate a constrained kinase-off state. Science Signaling, 2020, 13, .	3.6	10
84	Proteomic Analysis and Cell Viability of Nine Amnion, Chorion, Umbilical Cord, and Amniotic Fluid–Derived Products. Cartilage, 2021, 13, 495S-507S.	2.7	10
85	Serum Proteomics on the Basis of Discovery of Predictive Biomarkers of Response to Androgen Deprivation Therapy in Advanced Prostate Cancer. Clinical Genitourinary Cancer, 2019, 17, 248-253.e7.	1.9	9
86	Shotgun scanning glycomutagenesis: A simple and efficient strategy for constructing and characterizing neoglycoproteins. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	9
87	Overexpression of a CPYC-Type Glutaredoxin, OsGrxC2.2, Causes Abnormal Embryos and an Increased Grain Weight in Rice. Frontiers in Plant Science, 2019, 10, 848.	3.6	8
88	Secreted sphingomyelins modulate low mammary cancer incidence observed in certain mammals. Scientific Reports, 2020, 10, 20580.	3.3	8
89	Identification of ADP-ribosylation sites of CD38 mutants by precursor ion scanning mass spectrometry. Analytical Biochemistry, 2013, 433, 218-226.	2.4	7
90	Multi-omics analyses of red blood cell reveal antioxidation mechanisms associated with hemolytic toxicity of gossypol. Oncotarget, 2017, 8, 103693-103709.	1.8	7

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91	Probing the molecular regulation of lipopolysaccharide stress in piglet liver by comparative proteomics analysis. Electrophoresis, 2018, 39, 2321-2331.	2.4	7
92	Prenatal choline supplementation improves biomarkers of maternal docosahexaenoic acid (DHA) status among pregnant participants consuming supplemental DHA: a randomized controlled trial. American Journal of Clinical Nutrition, 2022, 116, 820-832.	4.7	7
93	Comparison of MS2, synchronous precursor selection MS3, and real-time search MS3 methodologies for lung proteomes of hydrogen sulfide treated swine. Analytical and Bioanalytical Chemistry, 2021, 413, 419-429.	3.7	6
94	Metabolism and global protein glycosylation are differentially expressed in healthy and osteoarthritic equine carpal synovial fluid. Equine Veterinary Journal, 2022, 54, 323-333.	1.7	6
95	Use of a stable-isotope-labeled reporter peptide and antioxidants for reliable quantification of methionine oxidation in a monoclonal antibody by liquid chromatography/mass spectrometry. Rapid Communications in Mass Spectrometry, 2016, 30, 1734-1742.	1.5	3
96	Vitamin D kinetics in nonpregnant and pregnant women after a single oral dose of trideuterated vitamin D3. Journal of Steroid Biochemistry and Molecular Biology, 2022, 216, 106034.	2.5	3
97	Oxygen level regulates N-terminal translation elongation of selected proteins through deoxyhypusine hydroxylation. Cell Reports, 2022, 39, 110855.	6.4	3
98	Proteomics Analysis Reveals Altered Nutrients in the Whey Proteins of Dairy Cow Milk with Different Thermal Treatments. Molecules, 2021, 26, 4628.	3.8	2
99	Role of Four Conserved Active-Site Aspartic Acid Residues in Thermobifida fusca Endoglucanase Cel6A. ACS Symposium Series, 2000, , 28-38.	0.5	0
100	Aerial ammonia exposure induces the perturbation of the interorgan ammonia disposal and branched-chain amino acid catabolism in growing pigs. Animal Nutrition, 2021, 7, 947-958.	5.1	0
101	Quantitative proteomics reveals tissue-specific toxic mechanisms for acute hydrogen sulfide-induced injury of diverse organs in pig. Science of the Total Environment, 2022, 806, 150365.	8.0	Ο