Sheng Zhang

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1535863/publications.pdf

Version: 2024-02-01

| 101 | 6,808 | 40 | 78 |
|----------|----------------|--------------|----------------|
| papers | citations | h-index | g-index |
| 105 | 105 | 105 | 9935 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|----|---|-----|-----------|
| 1 | Metabolism and global protein glycosylation are differentially expressed in healthy and osteoarthritic equine carpal synovial fluid. Equine Veterinary Journal, 2022, 54, 323-333. | 0.9 | 6 |
| 2 | 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. | 3.9 | 0 |
| 3 | 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. | 3.1 | 15 |
| 4 | Altered succinylation of mitochondrial proteins, APP and tau in Alzheimer's disease. Nature Communications, 2022, 13, 159. | 5.8 | 42 |
| 5 | 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. | 1.2 | 3 |
| 6 | Early non-neutralizing, afucosylated antibody responses are associated with COVID-19 severity. Science Translational Medicine, 2022, 14, eabm7853. | 5.8 | 71 |
| 7 | 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 , $820-832$. | 2.2 | 7 |
| 8 | Oxygen level regulates N-terminal translation elongation of selected proteins through deoxyhypusine hydroxylation. Cell Reports, 2022, 39, 110855. | 2.9 | 3 |
| 9 | Cell-derived nanovesicles prepared by membrane extrusion are good substitutes for natural extracellular vesicles., 2022, 1, 100004. | | 29 |
| 10 | Proinflammatory IgG Fc structures in patients with severe COVID-19. Nature Immunology, 2021, 22, 67-73. | 7.0 | 239 |
| 11 | 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. | 1.9 | 6 |
| 12 | MaMAPK3-MalCE1-MaPOD P7 pathway, a positive regulator of cold tolerance in banana. BMC Plant Biology, 2021, 21, 97. | 1.6 | 13 |
| 13 | The human brain acetylome reveals that decreased acetylation of mitochondrial proteins associates with Alzheimer's disease. Journal of Neurochemistry, 2021, 158, 282-296. | 2.1 | 11 |
| 14 | Proteomics Analysis Reveals Altered Nutrients in the Whey Proteins of Dairy Cow Milk with Different Thermal Treatments. Molecules, 2021, 26, 4628. | 1.7 | 2 |
| 15 | 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, . | 3.3 | 9 |
| 16 | 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. | 2.1 | 0 |
| 17 | HIF1α stabilization in hypoxia is not oxidant-initiated. ELife, 2021, 10, . | 2.8 | 13 |
| 18 | Proteomic Analysis and Cell Viability of Nine Amnion, Chorion, Umbilical Cord, and Amniotic Fluid–Derived Products. Cartilage, 2021, 13, 495S-507S. | 1.4 | 10 |

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|----|--|------|-----------|
| 19 | Serum Metabolomic and Lipidomic Profiling Reveals Novel Biomarkers of Efficacy for Benfotiamine in Alzheimer's Disease. International Journal of Molecular Sciences, 2021, 22, 13188. | 1.8 | 13 |
| 20 | Proteomics insights into the effects of MSTN on muscle glucose and lipid metabolism in genetically edited cattle. General and Comparative Endocrinology, 2020, 291, 113237. | 0.8 | 25 |
| 21 | Hostâ€induced gene silencing of <i>Foc </i> <scp>TR</scp> 4 <i><scp>ERG</scp>6/11</i> <genes 11-13.<="" 18,="" 2020,="" banana.="" biotechnology="" exhibits="" fusarium="" journal,="" of="" plant="" resistance="" superior="" td="" to="" wilt=""><td>4.1</td><td>53</td></genes> | 4.1 | 53 |
| 22 | Both gut microbiota and cytokines act to atherosclerosis in ApoEâ^'/â^' mice. Microbial Pathogenesis, 2020, 138, 103827. | 1.3 | 17 |
| 23 | Atmospheric Ammonia Affects Myofiber Development and Lipid Metabolism in Growing Pig Muscle. Animals, 2020, 10, 2. | 1.0 | 22 |
| 24 | Engineered chemotaxis core signaling units indicate a constrained kinase-off state. Science Signaling, 2020, 13, . | 1.6 | 10 |
| 25 | 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. | 1.4 | 24 |
| 26 | 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. | 1.4 | 20 |
| 27 | Challenges and Opportunities in Clinical Applications of Blood-Based Proteomics in Cancer. Cancers, 2020, 12, 2428. | 1.7 | 46 |
| 28 | Secreted sphingomyelins modulate low mammary cancer incidence observed in certain mammals. Scientific Reports, 2020, 10, 20580. | 1.6 | 8 |
| 29 | Maternal Anti-Dengue IgG Fucosylation Predicts Susceptibility to Dengue Disease in Infants. Cell Reports, 2020, 31, 107642. | 2.9 | 44 |
| 30 | FcRn, but not Fcl̂³Rs, 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. | 3.3 | 55 |
| 31 | MaXLinker: Proteome-wide Cross-link Identifications with High Specificity and Sensitivity. Molecular and Cellular Proteomics, 2020, 19, 554-568. | 2.5 | 38 |
| 32 | The proteomic profiling of multiple tissue damage in chickens for a selenium deficiency biomarker discovery. Food and Function, 2020, 11, 1312-1321. | 2.1 | 51 |
| 33 | The Penium margaritaceum Genome: Hallmarks of the Origins of Land Plants. Cell, 2020, 181, 1097-1111.e12. | 13.5 | 153 |
| 34 | Structure and chemistry of lysinoalanine crosslinking in the spirochaete flagella hook. Nature Chemical Biology, 2019, 15, 959-965. | 3.9 | 17 |
| 35 | 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. | 1.7 | 8 |
| 36 | Proteomic characterization of outer membrane vesicles from gut mucosa-derived fusobacterium nucleatum. Journal of Proteomics, 2019, 195, 125-137. | 1.2 | 44 |

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|----|---|--------------|-----------|
| 37 | 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. | 4.2 | 25 |
| 38 | Mapping and Profiling Lipid Distribution in a 3D Model of Breast Cancer Progression. ACS Central Science, 2019, 5, 768-780. | 5 . 3 | 40 |
| 39 | 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. | 0.9 | 9 |
| 40 | Adaption of Roots to Nitrogen Deficiency Revealed by 3D Quantification and Proteomic Analysis. Plant Physiology, 2019, 179, 329-347. | 2.3 | 81 |
| 41 | Evaluation of six sample preparation procedures for qualitative and quantitative proteomics analysis of milk fat globule membrane. Electrophoresis, 2018, 39, 2332-2339. | 1.3 | 52 |
| 42 | Ube2V2 Is a Rosetta Stone Bridging Redox and Ubiquitin Codes, Coordinating DNA Damage Responses. ACS Central Science, 2018, 4, 246-259. | 5. 3 | 51 |
| 43 | Cerebral ischemia induces the aggregation of proteins linked to neurodegenerative diseases. Scientific Reports, 2018, 8, 2701. | 1.6 | 62 |
| 44 | Probing the molecular regulation of lipopolysaccharide stress in piglet liver by comparative proteomics analysis. Electrophoresis, 2018, 39, 2321-2331. | 1.3 | 7 |
| 45 | Estrogen receptor beta modulates permeability transition in brain mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 423-433. | 0.5 | 37 |
| 46 | 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. | 0.8 | 33 |
| 47 | IRE1α–XBP1 controls T cell function in ovarian cancer by regulating mitochondrial activity. Nature, 2018, 562, 423-428. | 13.7 | 252 |
| 48 | Early Cold-Induced Peroxidases and Aquaporins Are Associated With High Cold Tolerance in Dajiao (Musa spp. †Dajiao†M). Frontiers in Plant Science, 2018, 9, 282. | 1.7 | 38 |
| 49 | The Secretome and N-Glycosylation Profiles of the Charophycean Green Alga, Penium margaritaceum, Resemble Those of Embryophytes. Proteomes, 2018, 6, 14. | 1.7 | 17 |
| 50 | OsNOA1 functions in a threshold-dependent manner to regulate chloroplast proteins in rice at lower temperatures. BMC Plant Biology, 2018, 18, 44. | 1.6 | 10 |
| 51 | Akt3 is a privileged first responder in isozyme-specific electrophile response. Nature Chemical Biology, 2017, 13, 333-338. | 3.9 | 56 |
| 52 | Comparative Phosphoproteomics Reveals an Important Role of MKK2 in Banana (Musa spp.) Cold Signal Network. Scientific Reports, 2017, 7, 40852. | 1.6 | 40 |
| 53 | Identification and characterization of glycation adducts on osteocalcin. Analytical Biochemistry, 2017, 525, 46-53. | 1.1 | 43 |
| 54 | Multi-omics analyses of red blood cell reveal antioxidation mechanisms associated with hemolytic toxicity of gossypol. Oncotarget, 2017, 8, 103693-103709. | 0.8 | 7 |

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|----|---|------|-----------|
| 55 | 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. | 1.3 | 40 |
| 56 | 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. | 3.3 | 263 |
| 57 | Proteomic analysis reveals dynamic regulation of fruit development and sugar and acid accumulation in apple. Journal of Experimental Botany, 2016, 67, 5145-5157. | 2.4 | 84 |
| 58 | 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. | 0.7 | 3 |
| 59 | Spirochaete flagella hook proteins self-catalyse a lysinoalanine covalent crosslink for motility. Nature Microbiology, 2016, 1, 16134. | 5.9 | 27 |
| 60 | 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. | 1.5 | 65 |
| 61 | Label-free Quantitative Analysis of Changes in Broiler Liver Proteins under Heat Stress using SWATH-MS Technology. Scientific Reports, 2015, 5, 15119. | 1.6 | 44 |
| 62 | Substitute sweeteners: diverse bacterial oligosaccharyltransferases with unique N-glycosylation site preferences. Scientific Reports, 2015, 5, 15237. | 1.6 | 41 |
| 63 | 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. | 2.3 | 52 |
| 64 | Comparative transcriptomics analysis reveals difference of key gene expression between banana and plantain in response to cold stress. BMC Genomics, 2015, 16, 446. | 1.2 | 105 |
| 65 | ER Stress Sensor XBP1 Controls Anti-tumor Immunity by Disrupting Dendritic Cell Homeostasis. Cell, 2015, 161, 1527-1538. | 13.5 | 639 |
| 66 | The Cysteine-rich Domain of the DHHC3 Palmitoyltransferase Is Palmitoylated and Contains Tightly Bound Zinc. Journal of Biological Chemistry, 2015, 290, 29259-29269. | 1.6 | 46 |
| 67 | 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. | 1.7 | 52 |
| 68 | 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. | 1.7 | 77 |
| 69 | Alphaâ€ketoglutarate dehydrogenase complexâ€dependent succinylation of proteins in neurons and neuronal cell lines. Journal of Neurochemistry, 2015, 134, 86-96. | 2.1 | 96 |
| 70 | The ubiquitin ligase HERC3 attenuates NF-l ^o B-dependent transcription independently of its enzymatic activity by delivering the RelA subunit for degradation. Nucleic Acids Research, 2015, 43, gkv1064. | 6.5 | 26 |
| 71 | 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. | 2.5 | 55 |
| 72 | Melatonin regulates proteomic changes during leaf senescence in <i>Malus hupehensis</i> , Journal of Pineal Research, 2014, 57, 291-307. | 3.4 | 74 |

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|----|---|-----|-----------|
| 73 | Engineered oligosaccharyltransferases with greatly relaxed acceptor-site specificity. Nature Chemical Biology, 2014, 10, 816-822. | 3.9 | 63 |
| 74 | Proteomic Comparison of Historic and Recently Emerged Hypervirulent <i>Clostridium difficile </i> Strains. Journal of Proteome Research, 2013, 12, 1151-1161. | 1.8 | 52 |
| 75 | Identification of ADP-ribosylation sites of CD38 mutants by precursor ion scanning mass spectrometry. Analytical Biochemistry, 2013, 433, 218-226. | 1.1 | 7 |
| 76 | 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. | 1.3 | 15 |
| 77 | 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. | 1.6 | 25 |
| 78 | Analytical technologies for identification and characterization of the plant N-glycoproteome. Frontiers in Plant Science, 2012, 3, 150. | 1.7 | 22 |
| 79 | 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. | 2.5 | 110 |
| 80 | Temporal Differential Proteomes of Clostridium difficile in the Pig Ileal-Ligated Loop Model. PLoS ONE, 2012, 7, e45608. | 1.1 | 13 |
| 81 | Enabling proteomic studies with RNAâ€ S eq: The proteome of tomato pollen as a test case. Proteomics, 2012, 12, 761-774. | 1.3 | 62 |
| 82 | Comparative characterization of the glycosylation profiles of an influenza hemagglutinin produced in plant and insect hosts. Proteomics, 2012, 12, 1269-1288. | 1.3 | 41 |
| 83 | Sirt5 Is a NAD-Dependent Protein Lysine Demalonylase and Desuccinylase. Science, 2011, 334, 806-809. | 6.0 | 1,165 |
| 84 | 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. | 1.8 | 108 |
| 85 | Production of Secretory and Extracellular N-Linked Glycoproteins in <i>Escherichia coli</i> Applied and Environmental Microbiology, 2011, 77, 871-881. | 1.4 | 112 |
| 86 | 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. | 1.7 | 46 |
| 87 | 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.</i> | 0.8 | 24 |
| 88 | Physiological and proteomic responses of two contrasting <i>Populus cathayana</i> populations to drought stress. Physiologia Plantarum, 2009, 136, 150-168. | 2.6 | 149 |
| 89 | Absolute quantification of <i>Dehalococcoides</i> proteins: enzyme bioindicators of chlorinated ethene dehalorespiration. Environmental Microbiology, 2009, 11, 2687-2697. | 1.8 | 56 |
| 90 | 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. | 1.3 | 94 |

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|-----|---|-----|----------|
| 91 | 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. | 0.8 | 13 |
| 92 | Chip-based nanoelectrospray mass spectrometry for protein characterization. Expert Review of Proteomics, 2004, 1, 449-468. | 1.3 | 43 |
| 93 | Characterization of protein glycosylation using chip-based infusion nanoelectrospray linear ion trap tandem mass spectrometry. Journal of Biomolecular Techniques, 2004, 15, 120-33. | 0.8 | 23 |
| 94 | Automated chip-based nanoelectrospray-mass spectrometry for rapid identification of proteins separated by two-dimensional gel electrophoresis. Electrophoresis, 2003, 24, 3620-3632. | 1.3 | 92 |
| 95 | A fully automated nanoelectrospray tandem mass spectrometric method for analysis of Caco-2 samples. Rapid Communications in Mass Spectrometry, 2003, 17, 1573-1578. | 0.7 | 75 |
| 96 | Quantitative Determination of Noncovalent Binding Interactions Using Automated Nanoelectrospray Mass Spectrometry. Analytical Chemistry, 2003, 75, 3010-3018. | 3.2 | 157 |
| 97 | Characterization of a fully automated nanoelectrospray system with mass spectrometric detection for proteomic analyses. Journal of Biomolecular Techniques, 2002, 13, 72-84. | 0.8 | 26 |
| 98 | Role of Four Conserved Active-Site Aspartic Acid Residues in Thermobifida fusca Endoglucanase Cel6A. ACS Symposium Series, 2000, , 28-38. | 0.5 | 0 |
| 99 | Probing the Catalytic Mechanism of Prephenate Dehydratase by Site-Directed Mutagenesis of theEscherichia coliP-Protein Dehydratase Domainâ€. Biochemistry, 2000, 39, 4722-4728. | 1.2 | 37 |
| 100 | A Fully Integrated Monolithic Microchip Electrospray Device for Mass Spectrometry. Analytical Chemistry, 2000, 72, 4058-4063. | 3.2 | 340 |
| 101 | Regulation of Phenylalanine Biosynthesis. Studies on the Mechanism of Phenylalanine Binding and Feedback Inhibition in theEscherichia coliP-Proteinâ€. Biochemistry, 1999, 38, 12212-12217. | 1.2 | 48 |