

# Song Zhang

## List of Publications by Citations

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115  
papers

3,435  
citations

31  
h-index

53  
g-index

122  
ext. papers

4,507  
ext. citations

6.9  
avg, IF

5.48  
L-index

#	Paper	IF	Citations
115	The role of a potassium transporter OsHAK5 in potassium acquisition and transport from roots to shoots in rice at low potassium supply levels. <i>Plant Physiology</i> , <b>2014</b> , 166, 945-59	6.6	180
114	Rice potassium transporter OsHAK1 is essential for maintaining potassium-mediated growth and functions in salt tolerance over low and high potassium concentration ranges. <i>Plant, Cell and Environment</i> , <b>2015</b> , 38, 2747-65	8.4	142
113	Placental adaptations in growth restriction. <i>Nutrients</i> , <b>2015</b> , 7, 360-89	6.7	137
112	Prospective Longitudinal Analysis of 2-Hydroxyglutarate Magnetic Resonance Spectroscopy Identifies Broad Clinical Utility for the Management of Patients With IDH-Mutant Glioma. <i>Journal of Clinical Oncology</i> , <b>2016</b> , 34, 4030-4039	2.2	124
111	Epigenetic modulation of inflammation and synaptic plasticity promotes resilience against stress in mice. <i>Nature Communications</i> , <b>2018</b> , 9, 477	17.4	116
110	Pyruvate cycle increases aminoglycoside efficacy and provides respiratory energy in bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E1578-E1587	11.5	108
109	Establishment of a repeated social defeat stress model in female mice. <i>Scientific Reports</i> , <b>2017</b> , 7, 12838	4.9	107
108	Interferon Gamma Induces Reversible Metabolic Reprogramming of M1 Macrophages to Sustain Cell Viability and Pro-Inflammatory Activity. <i>EBioMedicine</i> , <b>2018</b> , 30, 303-316	8.8	93
107	Advanced Glycation End Products Enhance Macrophages Polarization into M1 Phenotype through Activating RAGE/NF- $\kappa$ B Pathway. <i>BioMed Research International</i> , <b>2015</b> , 2015, 732450	3	91
106	Requirements of transcription factor Smad-dependent and -independent TGF- $\beta$ signaling to control discrete T-cell functions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 905-10	11.5	81
105	Impact of chronic hypoxemia on blood flow to the brain, heart, and adrenal gland in the late-gestation IUGR sheep fetus. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2015</b> , 308, R151-62	3.2	79
104	KCNQ channel openers reverse depressive symptoms via an active resilience mechanism. <i>Nature Communications</i> , <b>2016</b> , 7, 11671	17.4	74
103	The role of transforming growth factor $\beta$ in T helper 17 differentiation. <i>Immunology</i> , <b>2018</b> , 155, 24-35	7.8	65
102	Therapeutic targeting of PFKFB3 with a novel glycolytic inhibitor PFK158 promotes lipophagy and chemosensitivity in gynecologic cancers. <i>International Journal of Cancer</i> , <b>2019</b> , 144, 178-189	7.5	62
101	A stress-associated NAC transcription factor (SINAC35) from tomato plays a positive role in biotic and abiotic stresses. <i>Physiologia Plantarum</i> , <b>2016</b> , 158, 45-64	4.6	57
100	Regulatory role of V $\alpha$ 11 T cells in tumor immunity through IL-4 production. <i>Journal of Immunology</i> , <b>2011</b> , 187, 4979-86	5.3	57
99	The Role of Dielectric Screening in Organic Shortwave Infrared Photodiodes for Spectroscopic Image Sensing. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1805738	15.6	56

98	Reversing SKI-SMAD4-mediated suppression is essential for T17 cell differentiation. <i>Nature</i> , <b>2017</b> , 551, 105-109	50.4	55
97	Modulation of mitochondrial complex I activity averts cognitive decline in multiple animal models of familial Alzheimer's Disease. <i>EBioMedicine</i> , <b>2015</b> , 2, 294-305	8.8	54
96	High susceptibility to liver injury in IL-27 p28 conditional knockout mice involves intrinsic interferon- $\gamma$ dysregulation of CD4+ T cells. <i>Hepatology</i> , <b>2013</b> , 57, 1620-31	11.2	54
95	Probing the Viscoelastic Property of Pseudo Free-Standing Conjugated Polymeric Thin Films. <i>Macromolecular Rapid Communications</i> , <b>2018</b> , 39, e1800092	4.8	53
94	Expression and significance of CD44, CD47 and c-met in ovarian clear cell carcinoma. <i>International Journal of Molecular Sciences</i> , <b>2015</b> , 16, 3391-404	6.3	48
93	Long non-coding RNA growth arrest-specific transcript 5 is involved in ovarian cancer cell apoptosis through the mitochondria-mediated apoptosis pathway. <i>Oncology Reports</i> , <b>2015</b> , 34, 3212-21	3.5	48
92	LKB1 loss promotes endometrial cancer progression via CCL2-dependent macrophage recruitment. <i>Journal of Clinical Investigation</i> , <b>2015</b> , 125, 4063-76	15.9	47
91	Brain-Derived Neurotrophic Factor in the Mesolimbic Reward Circuitry Mediates Nociception in Chronic Neuropathic Pain. <i>Biological Psychiatry</i> , <b>2017</b> , 82, 608-618	7.9	45
90	Microstructure evolution and EBSD analysis of a graded steel fabricated by laser additive manufacturing. <i>Vacuum</i> , <b>2017</b> , 141, 68-81	3.7	44
89	T Cells in Fibrosis and Fibrotic Diseases. <i>Frontiers in Immunology</i> , <b>2020</b> , 11, 1142	8.4	44
88	Cardiac resynchronization therapy induces adaptive metabolic transitions in the metabolomic profile of heart failure. <i>Journal of Cardiac Failure</i> , <b>2015</b> , 21, 460-9	3.3	40
87	Association between FASN gene polymorphisms ultrasound carcass traits and intramuscular fat in Qinchuan cattle. <i>Gene</i> , <b>2018</b> , 645, 55-59	3.8	37
86	Critical role of dendritic cell-derived IL-27 in antitumor immunity through regulating the recruitment and activation of NK and NKT cells. <i>Journal of Immunology</i> , <b>2013</b> , 191, 500-8	5.3	36
85	Midbrain circuit regulation of individual alcohol drinking behaviors in mice. <i>Nature Communications</i> , <b>2017</b> , 8, 2220	17.4	35
84	A critical role for transcription factor Smad4 in T cell function that is independent of transforming growth factor $\beta$ receptor signaling. <i>Immunity</i> , <b>2015</b> , 42, 68-79	32.3	30
83	A silicon based implantable microelectrode array for electrophysiological and dopamine recording from cortex to striatum in the non-human primate brain. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 85, 53-61	11.8	30
82	Resolvin D1 attenuates imiquimod-induced mice psoriasiform dermatitis through MAPKs and NF- $\kappa$ B pathways. <i>Journal of Dermatological Science</i> , <b>2018</b> , 89, 127-135	4.3	30
81	Viral DNA Binding to NLRC3, an Inhibitory Nucleic Acid Sensor, Unleashes STING, a Cyclic Dinucleotide Receptor that Activates Type I Interferon. <i>Immunity</i> , <b>2019</b> , 50, 591-599.e6	32.3	29

80	β-Adrenergic Receptor-Mediated Mesolimbic Homeostatic Plasticity Confers Resilience to Social Stress in Susceptible Mice. <i>Biological Psychiatry</i> , <b>2019</b> , 85, 226-236	7.9	29
79	Novel compounds that enhance Agrobacterium-mediated plant transformation by mitigating oxidative stress. <i>Plant Cell Reports</i> , <b>2015</b> , 34, 291-309	5.1	27
78	Tumor suppressor miR-1 inhibits tumor growth and metastasis by simultaneously targeting multiple genes. <i>Oncotarget</i> , <b>2017</b> , 8, 42043-42060	3.3	27
77	AIM2 in regulatory T cells restrains autoimmune diseases. <i>Nature</i> , <b>2021</b> , 591, 300-305	50.4	27
76	Genetic variants in the promoter region of the KLF3 gene associated with fat deposition in Qinchuan cattle. <i>Gene</i> , <b>2018</b> , 672, 50-55	3.8	26
75	Dietary pomegranate extract and inulin affect gut microbiome differentially in mice fed an obesogenic diet. <i>Anaerobe</i> , <b>2017</b> , 48, 184-193	2.8	26
74	Decreased V $\alpha$ 1 T cells associated with liver damage by regulation of Th17 response in patients with chronic hepatitis B. <i>Journal of Infectious Diseases</i> , <b>2013</b> , 208, 1294-304	7	26
73	Early restriction of placental growth results in placental structural and gene expression changes in late gestation independent of fetal hypoxemia. <i>Physiological Reports</i> , <b>2016</b> , 4, e13049	2.6	26
72	Elevated O-GlcNAcylation promotes gastric cancer cells proliferation by modulating cell cycle related proteins and ERK 1/2 signaling. <i>Oncotarget</i> , <b>2016</b> , 7, 61390-61402	3.3	26
71	Transcriptome analysis of mRNA and microRNAs in intramuscular fat tissues of castrated and intact male Chinese Qinchuan cattle. <i>PLoS ONE</i> , <b>2017</b> , 12, e0185961	3.7	25
70	Sex Differences in the Neuroadaptations of Reward-related Circuits in Response to Subchronic Variable Stress. <i>Neuroscience</i> , <b>2018</b> , 376, 108-116	3.9	25
69	The periconceptional environment and cardiovascular disease: does in vitro embryo culture and transfer influence cardiovascular development and health?. <i>Nutrients</i> , <b>2015</b> , 7, 1378-425	6.7	25
68	Increased lung prolyl hydroxylase and decreased glucocorticoid receptor are related to decreased surfactant protein in the growth-restricted sheep fetus. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2015</b> , 309, L84-97	5.8	24
67	Shrimp miR-S8 Suppresses the Stemness of Human Melanoma Stem-like Cells by Targeting the Transcription Factor YB-1. <i>Cancer Research</i> , <b>2017</b> , 77, 5543-5553	10.1	24
66	IGF-2R-G $\beta$ signaling and cardiac hypertrophy in the low-birth-weight lamb. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2015</b> , 308, R627-35	3.2	23
65	Acetaminophen Adducts Detected in Serum of Pediatric Patients With Acute Liver Failure. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , <b>2015</b> , 61, 102-7	2.8	23
64	Systematically integrated metabonomic-proteomic studies of Escherichia coli under ciprofloxacin stress. <i>Journal of Proteomics</i> , <b>2018</b> , 179, 61-70	3.9	22
63	Lipoxin A4 and its analog suppress inflammation by modulating HMGB1 translocation and expression in psoriasis. <i>Scientific Reports</i> , <b>2017</b> , 7, 7100	4.9	22

62	A requirement of dendritic cell-derived interleukin-27 for the tumor infiltration of regulatory T cells. <i>Journal of Leukocyte Biology</i> , <b>2014</b> , 95, 733-742	6.5	22
61	Effect of microstructure on HER catalytic properties of MoS2 vertically standing nanosheets. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 747, 100-108	5.7	21
60	Low birth weight activates the renin-angiotensin system, but limits cardiac angiogenesis in early postnatal life. <i>Physiological Reports</i> , <b>2015</b> , 3, e12270	2.6	20
59	Bta-miR-130a/b regulates preadipocyte differentiation by targeting PPARG and CYP2U1 in beef cattle. <i>Molecular and Cellular Probes</i> , <b>2018</b> , 42, 10-17	3.3	20
58	Geraniol improves endothelial function by inhibiting NOX-2 derived oxidative stress in high fat diet fed mice. <i>Biochemical and Biophysical Research Communications</i> , <b>2016</b> , 474, 182-187	3.4	19
57	Metoprolol Inhibits Cardiac Apoptosis and Fibrosis in a Canine Model of Chronic Obstructive Sleep Apnea. <i>Cellular Physiology and Biochemistry</i> , <b>2015</b> , 36, 1131-41	3.9	19
56	A COMPARISON OF FOOD PORTION SIZE ESTIMATION USING GEOMETRIC MODELS AND DEPTH IMAGES. <i>Proceedings International Conference on Image Processing</i> , <b>2016</b> , 2016, 26-30	1.6	19
55	MicroRNA-98 attenuates cardiac ischemia-reperfusion injury through inhibiting DAPK1 expression. <i>IUBMB Life</i> , <b>2019</b> , 71, 166-176	4.7	19
54	Fast synthesis of high-quality large-area graphene by laser CVD. <i>Applied Surface Science</i> , <b>2018</b> , 445, 204-210	3.1	18
53	NRF1 and ZSCAN10 bind to the promoter region of the SIX1 gene and their effects body measurements in Qinchuan cattle. <i>Scientific Reports</i> , <b>2017</b> , 7, 7867	4.9	16
52	Antimicrobial activity and action mechanism of triglycerol monolaurate on common foodborne pathogens. <i>Food Control</i> , <b>2019</b> , 98, 113-119	6.2	16
51	Social Representations of Social Media Use in Government: An Analysis of Chinese Government Microblogging From Citizens' Perspective. <i>Social Science Computer Review</i> , <b>2016</b> , 34, 416-436	3.1	15
50	Akt signaling as a mediator of cardiac adaptation to low birth weight. <i>Journal of Endocrinology</i> , <b>2017</b> , 233, R81-R94	4.7	15
49	DCAF1 controls T-cell function via p53-dependent and -independent mechanisms. <i>Nature Communications</i> , <b>2016</b> , 7, 10307	17.4	15
48	Regulation of microRNA during cardiomyocyte maturation in sheep. <i>BMC Genomics</i> , <b>2015</b> , 16, 541	4.5	14
47	Mature Surfactant Protein-B Expression by Immunohistochemistry as a Marker for Surfactant System Development in the Fetal Sheep Lung. <i>Journal of Histochemistry and Cytochemistry</i> , <b>2015</b> , 63, 866-78	3.4	13
46	High-speed heteroepitaxial growth of 3C-SiC (111) thick films on Si (110) by laser chemical vapor deposition. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 1048-1057	3.8	13
45	Prevalence of stroke and associated risk factors among middle-aged and older farmers in western China. <i>Environmental Health and Preventive Medicine</i> , <b>2017</b> , 22, 6	4.2	13

44	The TGF- $\beta$ superfamily cytokine Activin-A is induced during autoimmune neuroinflammation and drives pathogenic Th17 cell differentiation. <i>Immunity</i> , <b>2021</b> , 54, 308-323.e6	32.3	13
43	Differential effects of late gestation maternal overnutrition on the regulation of surfactant maturation in fetal and postnatal life. <i>Journal of Physiology</i> , <b>2017</b> , 595, 6635-6652	3.9	12
42	Targeting T1 and T2 dual modality enhanced magnetic resonance imaging of tumor vascular endothelial cells based on peptides-conjugated manganese ferrite nanomicelles. <i>International Journal of Nanomedicine</i> , <b>2016</b> , 11, 4051-63	7.3	12
41	Impact of periconceptual and preimplantation undernutrition on factors regulating myogenesis and protein synthesis in muscle of singleton and twin fetal sheep. <i>Physiological Reports</i> , <b>2015</b> , 3, e12495	2.6	11
40	Molecular characterization of a novel citrivirus from citrus using next-generation sequencing. <i>Archives of Virology</i> , <b>2018</b> , 163, 3479-3482	2.6	11
39	3-Bromopyruvate sensitizes human breast cancer cells to TRAIL-induced apoptosis via the phosphorylated AMPK-mediated upregulation of DR5. <i>Oncology Reports</i> , <b>2018</b> , 40, 2435-2444	3.5	11
38	Design and characterization of a novel nickel-free cobalt-base alloy for intravascular stents. <i>Materials Science and Engineering C</i> , <b>2017</b> , 77, 565-571	8.3	10
37	Vaccination with a co-expression DNA plasmid containing GAD65 fragment gene and IL-10 gene induces regulatory CD4(+) T cells that prevent experimental autoimmune diabetes. <i>Diabetes/Metabolism Research and Reviews</i> , <b>2016</b> , 32, 522-33	7.5	10
36	Protective role of silent information regulator 1 against hepatic ischemia: effects on oxidative stress injury, inflammatory response, and MAPKs. <i>Expert Opinion on Therapeutic Targets</i> , <b>2016</b> , 20, 519-31	6.4	10
35	Decline of Phosphotransfer and Substrate Supply Metabolic Circuits Hinders ATP Cycling in Aging Myocardium. <i>PLoS ONE</i> , <b>2015</b> , 10, e0136556	3.7	10
34	Athletic differences in the characteristics of the photoplethysmographic pulse shape: effect of maximal oxygen uptake and maximal muscular voluntary contraction. <i>BioMed Research International</i> , <b>2015</b> , 2015, 752570	3	10
33	Impact of maternal undernutrition around the time of conception on factors regulating hepatic lipid metabolism and microRNAs in singleton and twin fetuses. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2016</b> , 310, E148-59	6	9
32	Morphological Evolution of Vertically Standing Molybdenum Disulfide Nanosheets by Chemical Vapor Deposition. <i>Materials</i> , <b>2018</b> , 11,	3.5	9
31	Normalisation of surfactant protein -A and -B expression in the lungs of low birth weight lambs by 21 days old. <i>PLoS ONE</i> , <b>2017</b> , 12, e0181185	3.7	8
30	Quantification of radial arterial pulse characteristics change during exercise and recovery. <i>Journal of Physiological Sciences</i> , <b>2018</b> , 68, 113-120	2.3	8
29	Spatial analysis of visceral leishmaniasis in the oases of the plains of Kashi Prefecture, Xinjiang Uygur Autonomous Region, China. <i>Parasites and Vectors</i> , <b>2016</b> , 9, 148	4	8
28	SKI and SMAD4 are essential for IL-21-induced Th17 differentiation. <i>Molecular Immunology</i> , <b>2019</b> , 114, 260-268	4.3	8
27	Identification of Potential Key Genes Associated with Adipogenesis through Integrated Analysis of Five Mouse Transcriptome Datasets. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	8

26	Changes of Arterial Pulse Waveform Characteristics with Gestational Age during Normal Pregnancy. <i>Scientific Reports</i> , <b>2018</b> , 8, 15571	4.9	8
25	Atrial sympathetic remodeling in experimental hyperthyroidism and hypothyroidism rats. <i>International Journal of Cardiology</i> , <b>2015</b> , 187, 148-50	3.2	7
24	Roles of mTORC1 and mTORC2 in controlling $\beta$ 1 and $\beta$ 17 differentiation and function. <i>Cell Death and Differentiation</i> , <b>2020</b> , 27, 2248-2262	12.7	7
23	Gaussian modelling characteristics changes derived from finger photoplethysmographic pulses during exercise and recovery. <i>Microvascular Research</i> , <b>2018</b> , 116, 20-25	3.7	7
22	Fucoidan exerts antidepressant-like effects in mice via regulating the stability of surface AMPARs. <i>Biochemical and Biophysical Research Communications</i> , <b>2020</b> , 521, 318-325	3.4	7
21	Tailoring the surface of NiTi alloy by TiN coating for biomedical application. <i>Materials Technology</i> , <b>2017</b> , 32, 657-667	2.1	6
20	Catalytic conversion of ethyl lactate to 1,2-propanediol over CuO. <i>Chinese Journal of Chemical Engineering</i> , <b>2016</b> , 24, 126-131	3.2	6
19	Effects of Force Load, Muscle Fatigue, and Magnetic Stimulation on Surface Electromyography during Side Arm Lateral Raise Task: A Preliminary Study with Healthy Subjects. <i>BioMed Research International</i> , <b>2017</b> , 2017, 8943850	3	6
18	Tumor rupture of gastric gastrointestinal stromal tumors during endoscopic resection: a risk factor for peritoneal metastasis?. <i>Endoscopy International Open</i> , <b>2018</b> , 6, E950-E956	3	5
17	Gaussian Modelling Characteristics of Peripheral Arterial Pulse: Difference between Measurements from the Three Trimesters of Healthy Pregnancy. <i>Journal of Healthcare Engineering</i> , <b>2018</b> , 2018, 1308419	3.7	5
16	Epitaxial growth of 3C <sub>2</sub> BiC on Si(111) and (001) by laser CVD. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 3850-3856	3.8	4
15	Caspase polymorphisms and prognosis of hepatocellular carcinoma. <i>PLoS ONE</i> , <b>2017</b> , 12, e0176802	3.7	4
14	RAS P21 Protein Activator 3 (RASA3) Specifically Promotes Pathogenic T Helper 17 Cell Generation by Repressing T-Helper-2-Cell-Biased Programs. <i>Immunity</i> , <b>2018</b> , 49, 886-898.e5	32.3	4
13	Visual exploration of HARDI fibers with probabilistic tracking. <i>Information Sciences</i> , <b>2016</b> , 330, 483-494	7.7	3
12	Characterization of the promoter region of bovine SIX4: Roles of E-box and MyoD in the regulation of basal transcription. <i>Biochemical and Biophysical Research Communications</i> , <b>2018</b> , 496, 44-50	3.4	3
11	Thickness dependence of structure and superconductivity of the SmBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> film by laser CVD. <i>RSC Advances</i> , <b>2017</b> , 7, 56166-56172	3.7	3
10	Human spinal GABA neurons alleviate spasticity and improve locomotion in rats with spinal cord injury. <i>Cell Reports</i> , <b>2021</b> , 34, 108889	10.6	3
9	Comparison of the onset of uterine contractions determined from tocodynamometry and maternal perception. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2017</b> , 2017, 1376-1379	0.9	2

8	Effects of combined rTMS and visual feedback on the rehabilitation of supernumerary phantom limbs in a patient with spinal cord injury: A case report. <i>World Journal of Clinical Cases</i> , <b>2019</b> , 7, 3120-3125	1.6	2
7	Opacity proteins of neisseria gonorrhoeae in lipooligosaccharide mutants lost ability to interact with neutrophil-restricted CEACAM3 (CD66d). <i>Journal of Huazhong University of Science and Technology [Medical Sciences]</i> , <b>2016</b> , 36, 344-349		2
6	Arterial Pulse Waveform Characteristics Difference between the Three Trimesters of Healthy Pregnant Women. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 5317-5320	0.9	2
5	in the gut plays a protective role against CD95-mediated liver injury.. <i>Gut Microbes</i> , <b>2022</b> , 14, 2027853	8.8	1
4	Expression, purification and characterization of recombinant toxins consisting of truncated gastrin 17 and pseudomonas exotoxin. <i>Protein and Peptide Letters</i> , <b>2015</b> , 22, 193-201	1.9	1
3	Influence of gestational age and time of day in baseline and heart rate variation of fetuses. <i>Technology and Health Care</i> , <b>2016</b> , 24 Suppl 2, S471-6	1.1	1
2	Nimodipine Promotes Functional Recovery After Spinal Cord Injury in Rats. <i>Frontiers in Pharmacology</i> , <b>2021</b> , 12, 733420	5.6	1
1	Regression models for near-infrared measurement of subcutaneous adipose tissue thickness. <i>Physiological Measurement</i> , <b>2016</b> , 37, 1024-34	2.9	