

Song Zhang

List of Publications by Year in descending order

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119
papers

5,395
citations

94269

37
h-index

102304

66
g-index

122
all docs

122
docs citations

122
times ranked

10792
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2014, 166, 945-959.	2.3	286
2	Rice potassium transporter <i>O</i> sHAK1 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> , 2015, 38, 2747-2765.	2.8	242
3	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> , 2018, 115, E1578-E1587.	3.3	185
4	Epigenetic modulation of inflammation and synaptic plasticity promotes resilience against stress in mice. <i>Nature Communications</i> , 2018, 9, 477.	5.8	185
5	Interferon Gamma Induces Reversible Metabolic Reprogramming of M1 Macrophages to Sustain Cell Viability and Pro-Inflammatory Activity. <i>EBioMedicine</i> , 2018, 30, 303-316.	2.7	184
6	Establishment of a repeated social defeat stress model in female mice. <i>Scientific Reports</i> , 2017, 7, 12838.	1.6	176
7	Placental Adaptations in Growth Restriction. <i>Nutrients</i> , 2015, 7, 360-389.	1.7	171
8	T Cells in Fibrosis and Fibrotic Diseases. <i>Frontiers in Immunology</i> , 2020, 11, 1142.	2.2	163
9	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> , 2016, 34, 4030-4039.	0.8	157
10	Advanced Glycation End Products Enhance Macrophages Polarization into M1 Phenotype through Activating RAGE/NF- κ B Pathway. <i>BioMed Research International</i> , 2015, 2015, 1-12.	0.9	127
11	The role of transforming growth factor β 2 in T helper 17 differentiation. <i>Immunology</i> , 2018, 155, 24-35.	2.0	115
12	Requirements of transcription factor Smad-dependent and -independent TGF- β 2 signaling to control discrete T-cell functions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 905-910.	3.3	111
13	KCNQ channel openers reverse depressive symptoms via an active resilience mechanism. <i>Nature Communications</i> , 2016, 7, 11671.	5.8	109
14	Therapeutic targeting of PFKFB3 with a novel glycolytic inhibitor PFK158 promotes lipophagy and chemosensitivity in gynecologic cancers. <i>International Journal of Cancer</i> , 2019, 144, 178-189.	2.3	103
15	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> , 2015, 308, R151-R162.	0.9	97
16	A stress-associated NAC transcription factor (<i>SINAC35</i>) from tomato plays a positive role in biotic and abiotic stresses. <i>Physiologia Plantarum</i> , 2016, 158, 45-64.	2.6	92
17	Reversing SKI-mediated SMAD4-mediated suppression is essential for TH17 cell differentiation. <i>Nature</i> , 2017, 551, 105-109.	13.7	88
18	Modulation of Mitochondrial Complex I Activity Averts Cognitive Decline in Multiple Animal Models of Familial Alzheimer's Disease. <i>EBioMedicine</i> , 2015, 2, 294-305.	2.7	87

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19	ALM2 in regulatory T cells restrains autoimmune diseases. <i>Nature</i> , 2021, 591, 300-305.	13.7	87
20	The Role of Dielectric Screening in Organic Shortwave Infrared Photodiodes for Spectroscopic Image Sensing. <i>Advanced Functional Materials</i> , 2018, 28, 1805738.	7.8	79
21	Probing the Viscoelastic Property of Pseudo Free-Standing Conjugated Polymeric Thin Films. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800092.	2.0	79
22	LKB1 loss promotes endometrial cancer progression via CCL2-dependent macrophage recruitment. <i>Journal of Clinical Investigation</i> , 2015, 125, 4063-4076.	3.9	79
23	Brain-Derived Neurotrophic Factor in the Mesolimbic Reward Circuitry Mediates Nociception in Chronic Neuropathic Pain. <i>Biological Psychiatry</i> , 2017, 82, 608-618.	0.7	75
24	Regulatory Role of $\hat{V}^{\hat{3}}1 \hat{I}^{\hat{3}}T$ Cells in Tumor Immunity through IL-4 Production. <i>Journal of Immunology</i> , 2011, 187, 4979-4986.	0.4	69
25	High susceptibility to liver injury in IL-27 p28 conditional knockout mice involves intrinsic interferon- $\hat{3}$ dysregulation of CD4 ⁺ T cells. <i>Hepatology</i> , 2013, 57, 1620-1631.	3.6	68
26	Expression and Significance of CD44, CD47 and c-met in Ovarian Clear Cell Carcinoma. <i>International Journal of Molecular Sciences</i> , 2015, 16, 3391-3404.	1.8	66
27	Microstructure evolution and EBSD analysis of a graded steel fabricated by laser additive manufacturing. <i>Vacuum</i> , 2017, 141, 68-81.	1.6	66
28	D-mannose facilitates immunotherapy and radiotherapy of triple-negative breast cancer via degradation of PD-L1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	66
29	Midbrain circuit regulation of individual alcohol drinking behaviors in mice. <i>Nature Communications</i> , 2017, 8, 2220.	5.8	63
30	Viral DNA Binding to NLRC3, an Inhibitory Nucleic Acid Sensor, Unleashes STING, a Cyclic Dinucleotide Receptor that Activates Type I Interferon. <i>Immunity</i> , 2019, 50, 591-599.e6.	6.6	58
31	Cardiac Resynchronization Therapy Induces Adaptive Metabolic Transitions in the Metabolomic Profile of Heart Failure. <i>Journal of Cardiac Failure</i> , 2015, 21, 460-469.	0.7	55
32	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> , 2015, 34, 3212-3221.	1.2	55
33	Association between FASN gene polymorphisms ultrasound carcass traits and intramuscular fat in Qinchuan cattle. <i>Gene</i> , 2018, 645, 55-59.	1.0	54
34	$\hat{1}$ - and $\hat{2}$ -Adrenergic Receptor-Mediated Mesolimbic Homeostatic Plasticity Confers Resilience to Social Stress in Susceptible Mice. <i>Biological Psychiatry</i> , 2019, 85, 226-236.	0.7	53
35	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> , 2013, 191, 500-508.	0.4	50
36	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> , 2016, 85, 53-61.	5.3	46

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37	The TGF- β superfamily cytokine Activin-A is induced during autoimmune neuroinflammation and drives pathogenic Th17 cell differentiation. <i>Immunity</i> , 2021, 54, 308-323.e6.	6.6	46
38	Resolvin D1 attenuates imiquimod-induced mice psoriasiform dermatitis through MAPKs and NF- κ B pathways. <i>Journal of Dermatological Science</i> , 2018, 89, 127-135.	1.0	44
39	A Critical Role for Transcription Factor Smad4 in T Cell Function that Is Independent of Transforming Growth Factor β Receptor Signaling. <i>Immunity</i> , 2015, 42, 68-79.	6.6	43
40	Elevated O-GlcNAcylation promotes gastric cancer cells proliferation by modulating cell cycle related proteins and ERK 1/2 signaling. <i>Oncotarget</i> , 2016, 7, 61390-61402.	0.8	39
41	Dietary pomegranate extract and inulin affect gut microbiome differentially in mice fed an obesogenic diet. <i>Anaerobe</i> , 2017, 48, 184-193.	1.0	39
42	Sex Differences in the Neuroadaptations of Reward-related Circuits in Response to Subchronic Variable Stress. <i>Neuroscience</i> , 2018, 376, 108-116.	1.1	39
43	Tumor suppressor miR-1 inhibits tumor growth and metastasis by simultaneously targeting multiple genes. <i>Oncotarget</i> , 2017, 8, 42043-42060.	0.8	39
44	Novel compounds that enhance Agrobacterium-mediated plant transformation by mitigating oxidative stress. <i>Plant Cell Reports</i> , 2015, 34, 291-309.	2.8	37
45	Genetic variants in the promoter region of the KLF3 gene associated with fat deposition in Qinchuan cattle. <i>Gene</i> , 2018, 672, 50-55.	1.0	35
46	Early restriction of placental growth results in placental structural and gene expression changes in late gestation independent of fetal hypoxemia. <i>Physiological Reports</i> , 2016, 4, e13049.	0.7	34
47	Systematically integrated metabolomic-proteomic studies of Escherichia coli under ciprofloxacin stress. <i>Journal of Proteomics</i> , 2018, 179, 61-70.	1.2	34
48	Lipoxin A4 and its analog suppress inflammation by modulating HMGB1 translocation and expression in psoriasis. <i>Scientific Reports</i> , 2017, 7, 7100.	1.6	33
49	The Periconceptional Environment and Cardiovascular Disease: Does In Vitro Embryo Culture and Transfer Influence Cardiovascular Development and Health?. <i>Nutrients</i> , 2015, 7, 1378-1425.	1.7	32
50	A comparison of food portion size estimation using geometric models and depth images. , 2016, 2016, 26-30.		32
51	Shrimp miR-S8 Suppresses the Stemness of Human Melanoma Stem-like Cells by Targeting the Transcription Factor YB-1. <i>Cancer Research</i> , 2017, 77, 5543-5553.	0.4	32
52	Decreased $\gamma\delta$ T Cells Associated With Liver Damage by Regulation of Th17 Response in Patients With Chronic Hepatitis B. <i>Journal of Infectious Diseases</i> , 2013, 208, 1294-1304.	1.9	31
53	Transcriptome analysis of mRNA and microRNAs in intramuscular fat tissues of castrated and intact male Chinese Qinchuan cattle. <i>PLoS ONE</i> , 2017, 12, e0185961.	1.1	31
54	Acetaminophen Adducts Detected in Serum of Pediatric Patients With Acute Liver Failure. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2015, 61, 102-107.	0.9	31

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55	Effect of microstructure on HER catalytic properties of MoS ₂ vertically standing nanosheets. <i>Journal of Alloys and Compounds</i> , 2018, 747, 100-108.	2.8	30
56	Bta-miR-130a/b regulates preadipocyte differentiation by targeting PPARG and CYP2U1 in beef cattle. <i>Molecular and Cellular Probes</i> , 2018, 42, 10-17.	0.9	30
57	<i>Bacteroides acidifaciens</i> in the gut plays a protective role against CD95-mediated liver injury. <i>Gut Microbes</i> , 2022, 14, 2027853.	4.3	30
58	IGF-2R-G _{1±q} signaling and cardiac hypertrophy in the low-birth-weight lamb. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 308, R627-R635.	0.9	27
59	DCAF1 controls T-cell function via p53-dependent and -independent mechanisms. <i>Nature Communications</i> , 2016, 7, 10307.	5.8	27
60	Roles of mTORC1 and mTORC2 in controlling $\hat{\imath}\hat{\imath}$ T1 and $\hat{\imath}\hat{\imath}$ T17 differentiation and function. <i>Cell Death and Differentiation</i> , 2020, 27, 2248-2262.	5.0	27
61	A requirement of dendritic cell-derived interleukin-27 for the tumor infiltration of regulatory T cells. <i>Journal of Leukocyte Biology</i> , 2014, 95, 733-742.	1.5	26
62	Metoprolol Inhibits Cardiac Apoptosis and Fibrosis in a Canine Model of Chronic Obstructive Sleep Apnea. <i>Cellular Physiology and Biochemistry</i> , 2015, 36, 1131-1141.	1.1	26
63	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> , 2015, 309, L84-L97.	1.3	25
64	Geraniol improves endothelial function by inhibiting NOX-2 derived oxidative stress in high fat diet fed mice. <i>Biochemical and Biophysical Research Communications</i> , 2016, 474, 182-187.	1.0	25
65	Social Representations of Social Media Use in Government. <i>Social Science Computer Review</i> , 2016, 34, 416-436.	2.6	24
66	Antimicrobial activity and action mechanism of triglycerol monolaurate on common foodborne pathogens. <i>Food Control</i> , 2019, 98, 113-119.	2.8	24
67	NRF1 and ZSCAN10 bind to the promoter region of the SIX1 gene and their effects body measurements in Qinchuan cattle. <i>Scientific Reports</i> , 2017, 7, 7867.	1.6	23
68	Vaccination with a co $\hat{\epsilon}$ expression DNA plasmid containing GAD65 fragment gene and IL $\hat{\epsilon}$ 10 gene induces regulatory CD4 ⁺ T cells that prevent experimental autoimmune diabetes. <i>Diabetes/Metabolism Research and Reviews</i> , 2016, 32, 522-533.	1.7	22
69	Fast synthesis of high-quality large-area graphene by laser CVD. <i>Applied Surface Science</i> , 2018, 445, 204-210.	3.1	22
70	MicroRNA $\hat{\epsilon}$ 98 attenuates cardiac ischemia $\hat{\epsilon}$ reperfusion injury through inhibiting DAPK1 expression. <i>IUBMB Life</i> , 2019, 71, 166-176.	1.5	22
71	Prevalence of stroke and associated risk factors among middle-aged and older farmers in western China. <i>Environmental Health and Preventive Medicine</i> , 2017, 22, 6.	1.4	21
72	Low birth weight activates the renin-angiotensin system, but limits cardiac angiogenesis in early postnatal life. <i>Physiological Reports</i> , 2015, 3, e12270.	0.7	20

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73	Human spinal GABA neurons alleviate spasticity and improve locomotion in rats with spinal cord injury. <i>Cell Reports</i> , 2021, 34, 108889.	2.9	20
74	Akt signaling as a mediator of cardiac adaptation to low birth weight. <i>Journal of Endocrinology</i> , 2017, 233, R81-R94.	1.2	18
75	Regulation of microRNA during cardiomyocyte maturation in sheep. <i>BMC Genomics</i> , 2015, 16, 541.	1.2	17
76	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> , 2015, 63, 866-878.	1.3	17
77	Differential effects of late gestation maternal overnutrition on the regulation of surfactant maturation in fetal and postnatal life. <i>Journal of Physiology</i> , 2017, 595, 6635-6652.	1.3	16
78	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> , 2018, 101, 1048-1057.	1.9	16
79	3-Bromopyruvate sensitizes human breast cancer cells to TRAIL-induced apoptosis via the phosphorylated AMPK-mediated upregulation of DR5. <i>Oncology Reports</i> , 2018, 40, 2435-2444.	1.2	16
80	Decline of Phosphotransfer and Substrate Supply Metabolic Circuits Hinders ATP Cycling in Aging Myocardium. <i>PLoS ONE</i> , 2015, 10, e0136556.	1.1	15
81	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> , 2018, 49, 886-898.e5.	6.6	15
82	Molecular characterization of a novel citrivirus from citrus using next-generation sequencing. <i>Archives of Virology</i> , 2018, 163, 3479-3482.	0.9	15
83	Impact of periconceptional and preimplantation undernutrition on factors regulating myogenesis and protein synthesis in muscle of singleton and twin fetal sheep. <i>Physiological Reports</i> , 2015, 3, e12495.	0.7	14
84	Design and characterization of a novel nickel-free cobalt-base alloy for intravascular stents. <i>Materials Science and Engineering C</i> , 2017, 77, 565-571.	3.8	14
85	Quantification of radial arterial pulse characteristics change during exercise and recovery. <i>Journal of Physiological Sciences</i> , 2018, 68, 113-120.	0.9	14
86	Identification of Potential Key Genes Associated with Adipogenesis through Integrated Analysis of Five Mouse Transcriptome Datasets. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3557.	1.8	14
87	Changes of Arterial Pulse Waveform Characteristics with Gestational Age during Normal Pregnancy. <i>Scientific Reports</i> , 2018, 8, 15571.	1.6	14
88	Targeting T ₁ and T ₂ ; dual modality enhanced magnetic resonance imaging of tumor vascular endothelial cells based on peptides-conjugated manganese ferrite nanomicelles. <i>International Journal of Nanomedicine</i> , 2016, Volume 11, 4051-4063.	3.3	13
89	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> , 2017, 2017, 1-9.	0.9	13
90	Fucoidan exerts antidepressant-like effects in mice via regulating the stability of surface AMPARs. <i>Biochemical and Biophysical Research Communications</i> , 2020, 521, 318-325.	1.0	13

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91	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> , 2015, 2015, 1-8.	0.9	12
92	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> , 2016, 310, E148-E159.	1.8	12
93	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> , 2016, 20, 519-531.	1.5	12
94	SKI and SMAD4 are essential for IL-21-induced Th17 differentiation. <i>Molecular Immunology</i> , 2019, 114, 260-268.	1.0	12
95	Atrial sympathetic remodeling in experimental hyperthyroidism and hypothyroidism rats. <i>International Journal of Cardiology</i> , 2015, 187, 148-150.	0.8	11
96	Catalytic conversion of ethyl lactate to 1,2-propanediol over CuO. <i>Chinese Journal of Chemical Engineering</i> , 2016, 24, 126-131.	1.7	10
97	Morphological Evolution of Vertically Standing Molybdenum Disulfide Nanosheets by Chemical Vapor Deposition. <i>Materials</i> , 2018, 11, 631.	1.3	10
98	Tailoring the surface of NiTi alloy by TiN coating for biomedical application. <i>Materials Technology</i> , 2017, 32, 657-667.	1.5	9
99	Gaussian modelling characteristics changes derived from finger photoplethysmographic pulses during exercise and recovery. <i>Microvascular Research</i> , 2018, 116, 20-25.	1.1	9
100	Spatial analysis of visceral leishmaniasis in the oases of the plains of Kashi Prefecture, Xinjiang Uygur Autonomous Region, China. <i>Parasites and Vectors</i> , 2016, 9, 148.	1.0	8
101	Normalisation of surfactant protein -A and -B expression in the lungs of low birth weight lambs by 21 days old. <i>PLoS ONE</i> , 2017, 12, e0181185.	1.1	8
102	Gaussian Modelling Characteristics of Peripheral Arterial Pulse: Difference between Measurements from the Three Trimesters of Healthy Pregnancy. <i>Journal of Healthcare Engineering</i> , 2018, 2018, 1-9.	1.1	8
103	Tumor rupture of gastric gastrointestinal stromal tumors during endoscopic resection: a risk factor for peritoneal metastasis?. <i>Endoscopy International Open</i> , 2018, 06, E950-E956.	0.9	7
104	Caspase polymorphisms and prognosis of hepatocellular carcinoma. <i>PLoS ONE</i> , 2017, 12, e0176802.	1.1	7
105	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> , 2018, 496, 44-50.	1.0	6
106	Thickness dependence of structure and superconductivity of the SmBa ₂ Cu ₃ O ₇ film by laser CVD. <i>RSC Advances</i> , 2017, 7, 56166-56172.	1.7	4
107	Epitaxial growth of 3C-SiC on Si(111) and (001) by laser CVD. <i>Journal of the American Ceramic Society</i> , 2018, 101, 3850-3856.	1.9	4
108	Nimodipine Promotes Functional Recovery After Spinal Cord Injury in Rats. <i>Frontiers in Pharmacology</i> , 2021, 12, 733420.	1.6	4

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109	Opacity proteins of neisseria gonorrhoeae in lipooligosaccharide mutants lost ability to interact with neutrophil-restricted CEACAM3 (CD66d). Journal of Huazhong University of Science and Technology [Medical Sciences], 2016, 36, 344-349.	1.0	3
110	Visual exploration of HARDI fibers with probabilistic tracking. Information Sciences, 2016, 330, 483-494.	4.0	3
111	Ensemble Traces: Interactive Visualization of Ensemble Multivariate Time Series Data. IS&T International Symposium on Electronic Imaging, 2016, 28, 1-9.	0.3	3
112	Comparison of the onset of uterine contractions determined from tocodynamometry and maternal perception. , 2017, 2017, 1376-1379.		2
113	Arterial Pulse Waveform Characteristics Difference between the Three Trimesters of Healthy Pregnant Women. , 2018, 2018, 5317-5320.		2
114	Effects of combined rTMS and visual feedback on the rehabilitation of supernumerary phantom limbs in a patient with spinal cord injury: A case report. World Journal of Clinical Cases, 2019, 7, 3120-3125.	0.3	2
115	Expression, Purification and Characterization of Recombinant Toxins Consisting of Truncated Gastrin 17 and Pseudomonas Exotoxin. Protein and Peptide Letters, 2015, 22, 193-201.	0.4	2
116	Influence of gestational age and time of day in baseline and heart rate variation of fetuses. Technology and Health Care, 2016, 24, S471-S476.	0.5	1
117	Hero or villain? The heterogeneity of Th17 cells. Molecular Immunology, 2019, 112, 358-359.	1.0	1
118	Analysis of Fetal Quiet Sleep Cycle and Extracting Features Based on Fetal Electrocardiogram. Journal of Medical Imaging and Health Informatics, 2018, 8, 5-8.	0.2	1
119	Regression models for near-infrared measurement of subcutaneous adipose tissue thickness. Physiological Measurement, 2016, 37, 1024-1034.	1.2	0