

Xiang Zhang

List of Publications by Year in descending order

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93
papers

7,505
citations

126907

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54911

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docs citations

94
times ranked

12978
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigating the relationships between unfavourable habitual sleep and metabolomic traits: evidence from multi-cohort multivariable regression and Mendelian randomization analyses. <i>BMC Medicine</i> , 2021, 19, 69.	5.5	14
2	A hierarchical dynamic model used for investigating feed efficiency and its relationship with hepatic gene expression in APOE*3â€œLeiden.CETP mice. <i>Physiological Reports</i> , 2021, 9, e14832.	1.7	2
3	OCRbayes: A Bayesian hierarchical modeling framework for Seahorse extracellular flux oxygen consumption rate data analysis. <i>PLoS ONE</i> , 2021, 16, e0253926.	2.5	1
4	A Bayesian Negative Binomial Hierarchical Model for Identifying Dietâ€œGut Microbiome Associations. <i>Frontiers in Microbiology</i> , 2021, 12, 711861.	3.5	0
5	Metabolic effects of PCSK9 inhibition with Evolocumab in subjects with elevated Lp(a). <i>Lipids in Health and Disease</i> , 2020, 19, 91.	3.0	4
6	Statistical evaluation of diet-microbe associations. <i>BMC Microbiology</i> , 2019, 19, 90.	3.3	12
7	Association of hemoglobin A1C with circulating metabolites in Dutch with European, African Surinamese and Ghanaian background. <i>Nutrition and Diabetes</i> , 2019, 9, 15.	3.2	1
8	Genetics, Lifestyle, and Low-Density Lipoprotein Cholesterol in Young and Apparently Healthy Women. <i>Circulation</i> , 2018, 137, 820-831.	1.6	30
9	Assessment of the synergic effect of immunomodulation on nerve repair using multiparametric magnetic resonance imaging. <i>Muscle and Nerve</i> , 2018, 57, E38-E45.	2.2	4
10	Long-term nitrogen fertilization impacts soil fungal and bacterial community structures in a dryland soil of Loess Plateau in China. <i>Journal of Soils and Sediments</i> , 2018, 18, 1632-1640.	3.0	33
11	Integrating zwitterionic polymer and Ag nanoparticles on polymeric membrane surface to prepare antifouling and bactericidal surface via Schiff-based layer-by-layer assembly. <i>Journal of Colloid and Interface Science</i> , 2018, 510, 308-317.	9.4	63
12	[18F]DPA-714 PET Imaging Reveals Global Neuroinflammation in Zika Virus-Infected Mice. <i>Molecular Imaging and Biology</i> , 2018, 20, 275-283.	2.6	21
13	Use of plasma metabolomics to analyze phenotype-genotype relationships in young hypercholesterolemic females. <i>Journal of Lipid Research</i> , 2018, 59, 2174-2180.	4.2	1
14	Identification of Discriminating Metabolic Pathways and Metabolites in Human PBMCs Stimulated by Various Pathogenic Agents. <i>Frontiers in Physiology</i> , 2018, 9, 139.	2.8	3
15	A promising carbon-11-labeled sphingosine-1-phosphate receptor 1-specific PET tracer for imaging vascular injury. <i>Journal of Nuclear Cardiology</i> , 2017, 24, 558-570.	2.1	29
16	Protective effect of isoliquiritin against corticosterone-induced neurotoxicity in PC12 cells. <i>Food and Function</i> , 2017, 8, 1235-1244.	4.6	44
17	Peptostreptococcus anaerobius Induces Intracellular Cholesterol Biosynthesis in Colon Cells to Induce Proliferation and Causes Dysplasia in Mice. <i>Gastroenterology</i> , 2017, 152, 1419-1433.e5.	1.3	308
18	Enhancement of Antiangiogenic Efficacy of Iron(II) Complex by Selenium Substitution. <i>Chemistry - an Asian Journal</i> , 2017, 12, 982-987.	3.3	18

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19	Chiral resolution of serial potent and selective β_1 ligands and biological evaluation of (β)-[^{18}F]TZ3108 in rodent and the nonhuman primate brain. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 1533-1542.	3.0	4
20	Evaluation of Acute Alcohol Intoxication as the Primary Cause of Death: A Diagnostic Challenge for Forensic Pathologists. <i>Journal of Forensic Sciences</i> , 2017, 62, 1213-1219.	1.6	8
21	Effects of Vildagliptin and Metformin on Blood Pressure and Heart Rate Responses to Small Intestinal Glucose in Type 2 Diabetes. <i>Diabetes Care</i> , 2017, 40, 702-705.	8.6	14
22	A thin and conformal metasurface for illusion acoustics of rapidly changing profiles. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	65
23	Design of anion species/strength responsive membranes via in-situ cross-linked copolymerization of ionic liquids. <i>Journal of Membrane Science</i> , 2017, 535, 158-167.	8.2	29
24	Discovery of intrinsic ferromagnetism in two-dimensional van der Waals crystals. <i>Nature</i> , 2017, 546, 265-269.	27.8	3,260
25	Nearly a decade-long repeatable seasonal diversity patterns of bacterioplankton communities in the eutrophic Lake Donghu (Wuhan, China). <i>Molecular Ecology</i> , 2017, 26, 3839-3850.	3.9	76
26	Analysis of stable isotope assisted metabolomics data acquired by GC-MS. <i>Analytica Chimica Acta</i> , 2017, 980, 25-32.	5.4	16
27	An integrated framework for designing formulated products. <i>Computers and Chemical Engineering</i> , 2017, 107, 61-76.	3.8	36
28	MCDefender. , 2017, , .		8
29	Cloning, expression and characterization of an aspartate aminotransferase gene from <i>Lactobacillus brevis</i> CGMCC 1306. <i>Biotechnology and Biotechnological Equipment</i> , 2017, 31, 544-553.	1.3	3
30	Synthesis of large-scale atomic-layer SnS ₂ through chemical vapor deposition. <i>Nano Research</i> , 2017, 10, 2386-2394.	10.4	124
31	CUE domain-containing protein 2 promotes the Warburg effect and tumorigenesis. <i>EMBO Reports</i> , 2017, 18, 809-825.	4.5	22
32	O-GlcNAc transferase promotes fatty liver-associated liver cancer through inducing palmitic acid and activating endoplasmic reticulum stress. <i>Journal of Hepatology</i> , 2017, 67, 310-320.	3.7	98
33	The Composition of Colonic Commensal Bacteria According to Anatomical Localization in Colorectal Cancer. <i>Engineering</i> , 2017, 3, 90-97.	6.7	26
34	Core@shell poly (acrylic acid) microgels/polyethersulfone beads for dye uptake from wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 1732-1743.	6.7	16
35	Analysis of urbanization dynamics in mainland China using pixel-based night-time light trajectories from 1992 to 2013. <i>International Journal of Remote Sensing</i> , 2017, 38, 6047-6072.	2.9	32
36	Observation of acoustic Dirac-like cone and double zero refractive index. <i>Nature Communications</i> , 2017, 8, 14871.	12.8	123

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37	Genome-wide survey in African Americans demonstrates potential epistasis of fitness in the human genome. <i>Genetic Epidemiology</i> , 2017, 41, 122-135.	1.3	9
38	Anion-Responsive Poly(ionic liquid)s Gating Membranes with Tunable Hydrodynamic Permeability. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32237-32247.	8.0	25
39	A chelating polymer resin: synthesis, characterization, adsorption and desorption performance for removal of Hg(II) from aqueous solution. <i>Journal of the Iranian Chemical Society</i> , 2017, 14, 2557-2566.	2.2	22
40	Understanding the Capsanthin Tails in Regulating the Hydrophilic-Lipophilic Balance of Carbon Dots for a Rapid Crossing Cell Membrane. <i>Langmuir</i> , 2017, 33, 10259-10270.	3.5	27
41	Optical and acoustic metamaterials: superlens, negative refractive index and invisibility cloak. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 084007.	2.2	94
42	Highly efficient luminescent E- and Z-isomers with stable configurations under photoirradiation induced by their charge transfer excited states. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8097-8104.	5.5	40
43	Adsorption energy of oxygen molecules on graphene and two-dimensional tungsten disulfide. <i>Scientific Reports</i> , 2017, 7, 1774.	3.3	62
44	Advanced investigation on the change in the streamflow into the water source of the middle route of China's water diversion project. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 6950-6961.	3.3	17
45	Nobiletin inhibits invasion via inhibiting AKT/GSK3 β -catenin signaling pathway in Slug-expressing glioma cells. <i>Oncology Reports</i> , 2017, 37, 2847-2856.	2.6	24
46	Reply to Miller: Misunderstanding and mix-up of acoustic and optical communications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E9757-E9758.	7.1	1
47	High-speed acoustic communication by multiplexing orbital angular momentum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7250-7253.	7.1	220
48	Switch on a more efficient pyruvate synthesis pathway based on transcriptome analysis and metabolic evolution. <i>Journal of Bioscience and Bioengineering</i> , 2017, 124, 523-527.	2.2	1
49	A Morphological identification cell cytotoxicity assay using cytoplasm-localized fluorescent probe (CLFP) to distinguish living and dead cells. <i>Biochemical and Biophysical Research Communications</i> , 2017, 482, 257-263.	2.1	14
50	Animal models of non-alcoholic fatty liver disease: current perspectives and recent advances. <i>Journal of Pathology</i> , 2017, 241, 36-44.	4.5	256
51	Structural Simplification of Bedaquiline: the Discovery of 3-((4-(dimethylaminomethyl)phenyl)quinoline-1-yl)quinoline-Derived Antitubercular Lead Compounds. <i>ChemMedChem</i> , 2017, 12, 106-119.	3.2	41
52	DTI metrics can be used as biomarkers to determine the therapeutic effect of stem cells in acute peripheral nerve injury. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 855-862.	3.4	21
53	Isolation and characterization of <i>Listeria monocytogenes</i> in Chinese food obtained from the central area of China. <i>Food Control</i> , 2017, 74, 9-16.	5.5	35
54	Efficient transformation of trichloroethylene activated through sodium percarbonate using heterogeneous zeolite supported nano zero valent iron-copper bimetallic composite. <i>Chemical Engineering Journal</i> , 2017, 308, 396-407.	12.7	94

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55	Molecular Cloning and Characterization of PnbHLH1 Transcription Factor in <i>Panax notoginseng</i> . <i>Molecules</i> , 2017, 22, 1268.	3.8	32
56	Pro-Inflammatory CXCR3 Impairs Mitochondrial Function in Experimental Non-Alcoholic Steatohepatitis. <i>Theranostics</i> , 2017, 7, 4192-4203.	10.0	49
57	Abnormal resting-state brain activities in patients with first-episode obsessive-compulsive disorder. <i>Neuropsychiatric Disease and Treatment</i> , 2017, Volume 13, 507-513.	2.2	30
58	Intent Recognition in Smart Living Through Deep Recurrent Neural Networks. <i>Lecture Notes in Computer Science</i> , 2017, , 748-758.	1.3	38
59	Integrative analysis of novel hypomethylation and gene expression signatures in glioblastomas. <i>Oncotarget</i> , 2017, 8, 89607-89619.	1.8	19
60	Th17 Cytokines and Barrier Functions. <i>Mediators of Inflammation</i> , 2016, 2016, 1-2.	3.0	3
61	Arbuscular Mycorrhizal Fungi Improve the Antioxidative Response and the Seed Production of <i>Suaedoideae</i> Species <i>Suaeda physophora</i> Pall Under Salt Stress. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2016, 44, 533-540.	1.1	6
62	Structure Prior Effects in Bayesian Approaches of Quantitative Susceptibility Mapping. <i>BioMed Research International</i> , 2016, 2016, 1-10.	1.9	4
63	In Vivo Targeted MR Imaging of Endogenous Neural Stem Cells in Ischemic Stroke. <i>Molecules</i> , 2016, 21, 1143.	3.8	17
64	Large-scale chemical assembly of atomically thin transistors and circuits. <i>Nature Nanotechnology</i> , 2016, 11, 954-959.	31.5	251
65	Discovery of a Broad-Spectrum Antiviral Compound That Inhibits Pyrimidine Biosynthesis and Establishes a Type 1 Interferon-Independent Antiviral State. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 4552-4562.	3.2	46
66	Flexible CMOS-Like Circuits Based on Printed P-type and N-type Carbon Nanotube Thin-Film Transistors. <i>Small</i> , 2016, 12, 5066-5073.	10.0	51
67	<i>Dync1h1</i> Mutation Causes Proprioceptive Sensory Neuron Loss and Impaired Retrograde Axonal Transport of Dorsal Root Ganglion Neurons. <i>CNS Neuroscience and Therapeutics</i> , 2016, 22, 593-601.	3.9	16
68	Zinc delays the progression of obesity-related glomerulopathy in mice via down-regulating <i>MAPK</i> -mediated inflammation. <i>Obesity</i> , 2016, 24, 1244-1256.	3.0	23
69	Surface Tension Components Based Selection of Cosolvents for Efficient Liquid Phase Exfoliation of 2D Materials. <i>Small</i> , 2016, 12, 2741-2749.	10.0	128
70	Cyberbullying Detection with a Pronunciation Based Convolutional Neural Network. , 2016, , .		71
71	Fruiting Body Formation in <i>Volvariella volvacea</i> Can Occur Independently of Its <i>MAT-A</i> -Controlled Bipolar Mating System, Enabling Homothallic and Heterothallic Life Cycles. <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 2135-2146.	1.8	13
72	Temperature programmed desorption measurements of oxygen molecules in 2D materials using laser terahertz emission microscopy. , 2016, , .		0

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73	Superparamagnetic Iron Oxide-Loaded Cationic Polymersomes for Cellular MR Imaging of Therapeutic Stem Cells in Stroke. <i>Journal of Biomedical Nanotechnology</i> , 2016, 12, 2112-2124.	1.1	28
74	C-X-C motif chemokine 10 in non-alcoholic steatohepatitis: role as a pro-inflammatory factor and clinical implication. <i>Expert Reviews in Molecular Medicine</i> , 2016, 18, e16.	3.9	28
75	Inhibition of FOXQ1 induces apoptosis and suppresses proliferation in prostate cancer cells by controlling BCL11A/MDM2 expression. <i>Oncology Reports</i> , 2016, 36, 2349-2356.	2.6	33
76	A high-resolution method to assess cell multinucleation with cytoplasm-localized fluorescent probes. <i>Analyst</i> , 2016, 141, 4010-4013.	3.5	9
77	Electrical generation and control of the valley carriers in a monolayer transition metal dichalcogenide. <i>Nature Nanotechnology</i> , 2016, 11, 598-602.	31.5	259
78	Type 2 Diabetes Dysregulates Glucose Metabolism in Cardiac Progenitor Cells. <i>Journal of Biological Chemistry</i> , 2016, 291, 13634-13648.	3.4	35
79	Predictive features of CT for risk stratifications in patients with primary gastrointestinal stromal tumour. <i>European Radiology</i> , 2016, 26, 3086-3093.	4.5	74
80	Strain-Induced Electronic Structure Changes in Stacked van der Waals Heterostructures. <i>Nano Letters</i> , 2016, 16, 3314-3320.	9.1	122
81	A mini review of preoxidation to improve coagulation. <i>Chemosphere</i> , 2016, 155, 550-563.	8.2	113
82	Small Intestinal Glucose Delivery Affects the Lowering of Blood Glucose by Acute Vildagliptin in Type 2 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016, 101, 4769-4778.	3.6	14
83	Solidâ€Vapor Reaction Growth of Transitionâ€Metal Dichalcogenide Monolayers. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10656-10661.	13.8	27
84	The Effect of Chelating Agents on Enhancement of 1,1,1-Trichloroethane and Trichloroethylene Degradation by Z-nZVI-Catalyzed Percarbonate Process. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	2.4	20
85	Double-stranded-RNA-specific adenosine deaminase 1 (ADAR1) is proposed to contribute to the adaptation of equine infectious anemia virus from horses to donkeys. <i>Archives of Virology</i> , 2016, 161, 2667-2672.	2.1	8
86	Printed thin-film transistors and NO ₂ gas sensors based on sorted semiconducting carbon nanotubes by isoindigo-based copolymer. <i>Carbon</i> , 2016, 108, 372-380.	10.3	70
87	Disease gene prioritization by integrating tissue-specific molecular networks using a robust multi-network model. <i>BMC Bioinformatics</i> , 2016, 17, 453.	2.6	31
88	Graphene oxide-based polyethersulfone coreâ€shell particles for dye uptake. <i>RSC Advances</i> , 2016, 6, 102389-102397.	3.6	11
89	Identification of novel KIF11 mutations in patients with familial exudative vitreoretinopathy and a phenotypic analysis. <i>Scientific Reports</i> , 2016, 6, 26564.	3.3	36
90	Magnetic hyperbolic optical metamaterials. <i>Nature Communications</i> , 2016, 7, 11329.	12.8	113

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91	Untargeted polar metabolomics of transformed MDA-MB-231 breast cancer cells expressing varying levels of human arylamine N-acetyltransferase 1. <i>Metabolomics</i> , 2016, 12, 1.	3.0	23
92	Zinc deficiency exacerbates while zinc supplement attenuates cardiac hypertrophy in high-fat diet-induced obese mice through modulating p38 MAPK-dependent signaling. <i>Toxicology Letters</i> , 2016, 258, 134-146.	0.8	31
93	A Protein Preload Enhances the Glucose-Lowering Efficacy of Vildagliptin in Type 2 Diabetes. <i>Diabetes Care</i> , 2016, 39, 511-517.	8.6	72