

Xiang Zhang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4252975/publications.pdf>

Version: 2024-02-01

93
papers

7,505
citations

126907

33
h-index

54911

84
g-index

94
all docs

94
docs citations

94
times ranked

12978
citing authors

#	ARTICLE	IF	CITATIONS
1	Discovery of intrinsic ferromagnetism in two-dimensional van der Waals crystals. <i>Nature</i> , 2017, 546, 265-269.	27.8	3,260
2	<i>Peptostreptococcus anaerobius</i> 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
3	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
4	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
5	Large-scale chemical assembly of atomically thin transistors and circuits. <i>Nature Nanotechnology</i> , 2016, 11, 954-959.	31.5	251
6	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
7	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
8	Synthesis of large-scale atomic-layer SnS ₂ through chemical vapor deposition. <i>Nano Research</i> , 2017, 10, 2386-2394.	10.4	124
9	Observation of acoustic Dirac-like cone and double zero refractive index. <i>Nature Communications</i> , 2017, 8, 14871.	12.8	123
10	Strain-Induced Electronic Structure Changes in Stacked van der Waals Heterostructures. <i>Nano Letters</i> , 2016, 16, 3314-3320.	9.1	122
11	A mini review of preoxidation to improve coagulation. <i>Chemosphere</i> , 2016, 155, 550-563.	8.2	113
12	Magnetic hyperbolic optical metamaterials. <i>Nature Communications</i> , 2016, 7, 11329.	12.8	113
13	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
14	Optical and acoustic metamaterials: superlens, negative refractive index and invisibility cloak. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 084007.	2.2	94
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Cyberbullying Detection with a Pronunciation Based Convolutional Neural Network. , 2016, , .		71
20	Printed thin-film transistors and NO ₂ gas sensors based on sorted semiconducting carbon nanotubes by isoindigo-based copolymer. Carbon, 2016, 108, 372-380.	10.3	70
21	A thin and conformal metasurface for illusion acoustics of rapidly changing profiles. Applied Physics Letters, 2017, 110, .	3.3	65
22	Integrating zwitterionic polymer and Ag nanoparticles on polymeric membrane surface to prepare antifouling and bactericidal surface via Schiff-based layer-by-layer assembly. Journal of Colloid and Interface Science, 2018, 510, 308-317.	9.4	63
23	Adsorption energy of oxygen molecules on graphene and two-dimensional tungsten disulfide. Scientific Reports, 2017, 7, 1774.	3.3	62
24	Flexible CMOS-like Circuits Based on Printed P-type and N-type Carbon Nanotube Thin-Film Transistors. Small, 2016, 12, 5066-5073.	10.0	51
25	Pro-Inflammatory CXCR3 Impairs Mitochondrial Function in Experimental Non-Alcoholic Steatohepatitis. Theranostics, 2017, 7, 4192-4203.	10.0	49
26	Discovery of a Broad-Spectrum Antiviral Compound That Inhibits Pyrimidine Biosynthesis and Establishes a Type 1 Interferon-Independent Antiviral State. Antimicrobial Agents and Chemotherapy, 2016, 60, 4552-4562.	3.2	46
27	Protective effect of isoliquiritin against corticosterone-induced neurotoxicity in PC12 cells. Food and Function, 2017, 8, 1235-1244.	4.6	44
28	Structural Simplification of Bedaquiline: the Discovery of 3-(4-(dimethylaminomethyl)phenyl)quinoline-Derived Antitubercular Lead Compounds. ChemMedChem, 2017, 12, 106-119.	3.2	41
29	Highly efficient luminescent E- and Z-isomers with stable configurations under photoirradiation induced by their charge transfer excited states. Journal of Materials Chemistry C, 2017, 5, 8097-8104.	5.5	40
30	Intent Recognition in Smart Living Through Deep Recurrent Neural Networks. Lecture Notes in Computer Science, 2017, , 748-758.	1.3	38
31	Identification of novel KIF11 mutations in patients with familial exudative vitreoretinopathy and a phenotypic analysis. Scientific Reports, 2016, 6, 26564.	3.3	36
32	An integrated framework for designing formulated products. Computers and Chemical Engineering, 2017, 107, 61-76.	3.8	36
33	Type 2 Diabetes Dysregulates Glucose Metabolism in Cardiac Progenitor Cells. Journal of Biological Chemistry, 2016, 291, 13634-13648.	3.4	35
34	Isolation and characterization of <i>Listeria monocytogenes</i> in Chinese food obtained from the central area of China. Food Control, 2017, 74, 9-16.	5.5	35
35	Inhibition of FOXQ1 induces apoptosis and suppresses proliferation in prostate cancer cells by controlling BCL11A/MDM2 expression. Oncology Reports, 2016, 36, 2349-2356.	2.6	33
36	Long-term nitrogen fertilization impacts soil fungal and bacterial community structures in a dryland soil of Loess Plateau in China. Journal of Soils and Sediments, 2018, 18, 1632-1640.	3.0	33

#	ARTICLE	IF	CITATIONS
37	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
38	Molecular Cloning and Characterization of PnbHLH1 Transcription Factor in <i>Panax notoginseng</i> . <i>Molecules</i> , 2017, 22, 1268.	3.8	32
39	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
40	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
41	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
42	Genetics, Lifestyle, and Low-Density Lipoprotein Cholesterol in Young and Apparently Healthy Women. <i>Circulation</i> , 2018, 137, 820-831.	1.6	30
43	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
44	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
45	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
46	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
47	Solidâ€Vapor Reaction Growth of Transitionâ€Metal Dichalcogenide Monolayers. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10656-10661.	13.8	27
48	Understanding the Capsanthin Tails in Regulating the Hydrophilicâ€Lipophilic Balance of Carbon Dots for a Rapid Crossing Cell Membrane. <i>Langmuir</i> , 2017, 33, 10259-10270.	3.5	27
49	The Composition of Colonic Commensal Bacteria According to Anatomical Localization in Colorectal Cancer. <i>Engineering</i> , 2017, 3, 90-97.	6.7	26
50	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
51	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
52	Zinc delays the progression of obesityâ€related glomerulopathy in mice via downâ€regulating p38 MAPK-mediated inflammation. <i>Obesity</i> , 2016, 24, 1244-1256.	3.0	23
53	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
54	CUE domainâ€containing protein 2 promotes the Warburg effect and tumorigenesis. <i>EMBO Reports</i> , 2017, 18, 809-825.	4.5	22

#	ARTICLE	IF	CITATIONS
55	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
56	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
57	[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
58	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
59	Integrative analysis of novel hypomethylation and gene expression signatures in glioblastomas. <i>Oncotarget</i> , 2017, 8, 89607-89619.	1.8	19
60	Enhancement of Antiangiogenic Efficacy of Iron(II) Complex by Selenium Substitution. <i>Chemistry - an Asian Journal</i> , 2017, 12, 982-987.	3.3	18
61	In Vivo Targeted MR Imaging of Endogenous Neural Stem Cells in Ischemic Stroke. <i>Molecules</i> , 2016, 21, 1143.	3.8	17
62	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
63	<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
64	Analysis of stable isotope assisted metabolomics data acquired by GC-MS. <i>Analytica Chimica Acta</i> , 2017, 980, 25-32.	5.4	16
65	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
66	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
67	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
68	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
69	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
70	Fruiting Body Formation in <i>Volvariella volvacea</i> Can Occur Independently of Its MAT-A-Controlled Bipolar Mating System, Enabling Homothallic and Heterothallic Life Cycles. <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 2135-2146.	1.8	13
71	Statistical evaluation of diet-microbe associations. <i>BMC Microbiology</i> , 2019, 19, 90.	3.3	12
72	Graphene oxide-based polyethersulfone core-shell particles for dye uptake. <i>RSC Advances</i> , 2016, 6, 102389-102397.	3.6	11

#	ARTICLE	IF	CITATIONS
73	A high-resolution method to assess cell multinucleation with cytoplasm-localized fluorescent probes. <i>Analyst</i> , The, 2016, 141, 4010-4013.	3.5	9
74	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
75	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
76	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
77	MCDefender. , 2017, , .		8
78	Arbuscular Mycorrhizal Fungi Improve the Antioxidative Response and the Seed Production of Suaedoideae Species Suaeda physophora Pall Under Salt Stress. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2016, 44, 533-540.	1.1	6
79	Structure Prior Effects in Bayesian Approaches of Quantitative Susceptibility Mapping. <i>BioMed Research International</i> , 2016, 2016, 1-10.	1.9	4
80	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
81	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
82	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
83	Th17 Cytokines and Barrier Functions. <i>Mediators of Inflammation</i> , 2016, 2016, 1-2.	3.0	3
84	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
85	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
86	A hierarchical dynamic model used for investigating feed efficiency and its relationship with hepatic gene expression in APOE*3 Δ Leiden.CETP mice. <i>Physiological Reports</i> , 2021, 9, e14832.	1.7	2
87	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
88	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
89	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
90	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

#	ARTICLE	IF	CITATIONS
91	OCRbayes: A Bayesian hierarchical modeling framework for Seahorse extracellular flux oxygen consumption rate data analysis. PLoS ONE, 2021, 16, e0253926.	2.5	1
92	Temperature programmed desorption measurements of oxygen molecules in 2D materials using laser terahertz emission microscopy. , 2016, , .		0
93	A Bayesian Negative Binomial Hierarchical Model for Identifying Dietâ€™Gut Microbiome Associations. Frontiers in Microbiology, 2021, 12, 711861.	3.5	0