

Feng Zhang

List of Publications by Year in descending order

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106
papers

3,209
citations

159585

30
h-index

175258

52
g-index

109
all docs

109
docs citations

109
times ranked

4397
citing authors

#	ARTICLE	IF	CITATIONS
1	TAA1-Regulated Local Auxin Biosynthesis in the Root-Apex Transition Zone Mediates the Aluminum-Induced Inhibition of Root Growth in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014, 26, 2889-2904.	6.6	173
2	Fluorescent probes for highly sensitive detection of Hg ²⁺ and L-cysteine based on nitrogen-doped carbon dots. <i>Talanta</i> , 2016, 152, 288-300.	5.5	156
3	Brassinosteroids regulate root growth by controlling reactive oxygen species homeostasis and dual effect on ethylene synthesis in <i>Arabidopsis</i> . <i>PLoS Genetics</i> , 2018, 14, e1007144.	3.5	152
4	CloudNet: Ground-Based Cloud Classification With Deep Convolutional Neural Network. <i>Geophysical Research Letters</i> , 2018, 45, 8665-8672.	4.0	141
5	Photoluminescent carbon quantum dots as a directly film-forming phosphor towards white LEDs. <i>Nanoscale</i> , 2016, 8, 8618-8632.	5.6	129
6	PHB3 Maintains Root Stem Cell Niche Identity through ROS-Responsive AP2/ERF Transcription Factors in <i>Arabidopsis</i> . <i>Cell Reports</i> , 2018, 22, 1350-1363.	6.4	128
7	Genetic regulation of salt stress tolerance revealed by RNA-Seq in cotton diploid wild species, <i>Gossypium davidsonii</i> . <i>Scientific Reports</i> , 2016, 6, 20582.	3.3	109
8	Fengycin Produced by <i>Bacillus amyloliquefaciens</i> FZB42 Inhibits <i>Fusarium graminearum</i> Growth and Mycotoxins Biosynthesis. <i>Toxins</i> , 2019, 11, 295.	3.4	96
9	Microwave-assisted hydrothermal synthesis of solid-state carbon dots with intensive emission for white light-emitting devices. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8105-8111.	5.5	94
10	Methane in the Changjiang (Yangtze River) Estuary and its adjacent marine area: riverine input, sediment release and atmospheric fluxes. <i>Biogeochemistry</i> , 2008, 91, 71-84.	3.5	89
11	Auxin signaling: Research advances over the past 30 years. <i>Journal of Integrative Plant Biology</i> , 2022, 64, 371-392.	8.5	87
12	sRNA profiling in <i>Aspergillus flavus</i> reveals differentially expressed miRNA-like RNAs response to water activity and temperature. <i>Fungal Genetics and Biology</i> , 2015, 81, 113-119.	2.1	79
13	Fabrication of One-Dimensional Iron Oxide/Silica Nanostructures with High Magnetic Sensitivity by Dipole-Directed Self-Assembly. <i>Journal of Physical Chemistry C</i> , 2008, 112, 15151-15156.	3.1	72
14	RNA-seq analysis reveals alternative splicing under salt stress in cotton, <i>Gossypium davidsonii</i> . <i>BMC Genomics</i> , 2018, 19, 73.	2.8	72
15	Mobile Emergency Generator Planning in Resilient Distribution Systems: A Three-Stage Stochastic Model With Nonanticipativity Constraints. <i>IEEE Transactions on Smart Grid</i> , 2020, 11, 4847-4859.	9.0	60
16	Terahertz biosensing based on bi-layer metamaterial absorbers toward ultra-high sensitivity and simple fabrication. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	59
17	MPK14-mediated auxin signaling controls lateral root development via ERF13-regulated very-long-chain fatty acid biosynthesis. <i>Molecular Plant</i> , 2021, 14, 285-297.	8.3	57
18	Ultra-Large Sized Siloxene Nanosheets as Bifunctional Photocatalyst for a Li ⁺ Battery with Superior Round-Trip Efficiency and Extra-Long Durability. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11257-11261.	13.8	53

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19	The advances in pyroptosis initiated by inflammasome in inflammatory and immune diseases. <i>Inflammation Research</i> , 2020, 69, 159-166.	4.0	52
20	Contamination and health risk assessment of PAHs in farmland soils of the Yinma River Basin, China. <i>Ecotoxicology and Environmental Safety</i> , 2018, 156, 383-390.	6.0	51
21	Transcriptome Analysis in <i>Haematococcus pluvialis</i> : Astaxanthin Induction by High Light with Acetate and Fe ²⁺ . <i>International Journal of Molecular Sciences</i> , 2018, 19, 175.	4.1	51
22	Sequential Disaster Recovery Model for Distribution Systems With Co-Optimization of Maintenance and Restoration Crew Dispatch. <i>IEEE Transactions on Smart Grid</i> , 2020, 11, 4700-4713.	9.0	51
23	Synthesis of Bis(NHC)-Based CNC-Pincer Rare-Earth-Metal Amido Complexes and Their Application for the Hydrophosphination of Heterocumulenes. <i>Organometallics</i> , 2015, 34, 4553-4559.	2.3	47
24	An Integrated Energy-Efficient Operation Methodology for Metro Systems Based on a Real Case of Shanghai Metro Line One. <i>Energies</i> , 2014, 7, 7305-7329.	3.1	46
25	Ethylene promotes cadmium-induced root growth inhibition through <i>EIN3</i> controlled <i>XTH33</i> and <i>LSU1</i> expression in <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , 2018, 41, 2449-2462.	5.7	44
26	Apoptosis of THP-1 Derived Macrophages Induced by Sonodynamic Therapy Using a New Sonosensitizer Hydroxyl Acetylated Curcumin. <i>PLoS ONE</i> , 2014, 9, e93133.	2.5	43
27	Preparation of thermoresponsive core-shell polymeric microspheres and hollow PNIPAM microgels. <i>Colloid and Polymer Science</i> , 2008, 286, 889-895.	2.1	38
28	Design, synthesis and structure-activity relationships of novel 4-phenoxyquinoline derivatives containing 1,2,4-triazolone moiety as c-Met kinase inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2016, 123, 431-446.	5.5	38
29	Antagonistic Interaction between Auxin and SA Signaling Pathways Regulates Bacterial Infection through Lateral Root in <i>Arabidopsis</i> . <i>Cell Reports</i> , 2020, 32, 108060.	6.4	38
30	CRISPR/Cas9 Delivery System Engineering for Genome Editing in Therapeutic Applications. <i>Pharmaceutics</i> , 2021, 13, 1649.	4.5	35
31	PRH1 mediates ARF7-LBD dependent auxin signaling to regulate lateral root development in <i>Arabidopsis thaliana</i> . <i>PLoS Genetics</i> , 2020, 16, e1008044.	3.5	34
32	Fluorescent polyvinyl alcohol films based on nitrogen and sulfur co-doped carbon dots towards white light-emitting devices. <i>New Journal of Chemistry</i> , 2016, 40, 8710-8716.	2.8	33
33	Accumulation characteristics and potential risk of PAHs in vegetable system grow in home garden under straw burning condition in Jilin, Northeast China. <i>Ecotoxicology and Environmental Safety</i> , 2018, 162, 647-654.	6.0	33
34	Few-layer and large flake size borophene: preparation with solvothermal-assisted liquid phase exfoliation. <i>RSC Advances</i> , 2020, 10, 27532-27537.	3.6	32
35	Regulation of PGE2 signaling pathways and TNF-alpha signaling pathways on the function of bone marrow-derived dendritic cells and the effects of CP-25. <i>European Journal of Pharmacology</i> , 2015, 769, 8-21.	3.5	29
36	G protein coupled receptors signaling pathways implicate in inflammatory and immune response of rheumatoid arthritis. <i>Inflammation Research</i> , 2017, 66, 379-387.	4.0	29

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37	Electrospun Nb ₂ O ₅ nanorods/microporous multichannel carbon nanofiber film anode for Na ⁺ ion capacitors with good performance. <i>Journal of Colloid and Interface Science</i> , 2020, 573, 1-10.	9.4	29
38	Paeoniflorin-6-O-benzene sulfonate alleviates collagen-induced arthritis in mice by downregulating BAFF-TRAF2-NF- κ B signaling: comparison with biological agents. <i>Acta Pharmacologica Sinica</i> , 2019, 40, 801-813.	6.1	28
39	Study on the Interaction between the chiral drug of propranolol and β 1-acid glycoprotein by fluorescence spectrophotometry. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2007, 86, 246-251.	3.8	27
40	A New Radiative Transfer Method for Solar Radiation in a Vertically Internally Inhomogeneous Medium. <i>Journals of the Atmospheric Sciences</i> , 2018, 75, 41-55.	1.7	27
41	CP-25, a Novel Anti-inflammatory and Immunomodulatory Drug, Inhibits the Functions of Activated Human B Cells through Regulating BAFF and TNF- α Signaling and Comparative Efficacy with Biological Agents. <i>Frontiers in Pharmacology</i> , 2017, 8, 933.	3.5	25
42	Integrating a Microwave Resonator and a Microchannel with an Immunochromatographic Strip for Stable and Quantitative Biodetection. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14630-14639.	8.0	25
43	Improvement of L-Leucine Production in <i>Corynebacterium glutamicum</i> by Altering the Redox Flux. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2020.	4.1	24
44	Fluorescent Carbon Quantum Dots as Single Light Converter for White LEDs. <i>Journal of Electronic Materials</i> , 2016, 45, 2784-2788.	2.2	23
45	A Fixed-Point Based Distributed Method for Energy Flow Calculation in Multi-Energy Systems. <i>IEEE Transactions on Sustainable Energy</i> , 2020, 11, 2567-2580.	8.8	22
46	Optimal sizing of energy storage considering the spatial-temporal correlation of wind power forecast errors. <i>IET Renewable Power Generation</i> , 2019, 13, 530-538.	3.1	20
47	Improved Na storage and Coulombic efficiency in TiP ₂ O ₇ @C microflowers for sodium ion batteries. <i>Nano Research</i> , 2021, 14, 139-147.	10.4	18
48	BAFF upregulates CD28/B7 and CD40/CD154 expression and promotes mouse T and B cell interaction in vitro via BAFF receptor. <i>Acta Pharmacologica Sinica</i> , 2016, 37, 1101-1109.	6.1	17
49	Rational modification of the carbon metabolism of <i>Corynebacterium glutamicum</i> to enhance L-leucine production. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2020, 47, 485-495.	3.0	17
50	Soluble microbial products from the white-rot fungus <i>Phanerochaete chrysosporium</i> as the bioflocculant for municipal wastewater treatment. <i>Science of the Total Environment</i> , 2021, 780, 146662.	8.0	16
51	Optimal sizing of substation-scale energy storage station considering seasonal variations in wind energy. <i>IET Generation, Transmission and Distribution</i> , 2016, 10, 3241-3250.	2.5	15
52	Equilibrium of the intracellular redox state for improving cell growth and L-lysine yield of <i>Corynebacterium glutamicum</i> by optimal cofactor swapping. <i>Microbial Cell Factories</i> , 2019, 18, 65.	4.0	14
53	Albumin-to-Alkaline Phosphatase Ratio is an Independent Prognostic Indicator in Combined Hepatocellular and Cholangiocarcinoma. <i>Journal of Cancer</i> , 2020, 11, 5177-5186.	2.5	14
54	Sequence control strategy for hybrid energy storage system for wind smoothing. <i>IET Generation, Transmission and Distribution</i> , 2019, 13, 4482-4490.	2.5	13

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55	Production of spore laccase from <i>Bacillus pumilus</i> W3 and its application in dye decolorization after immobilization. <i>Water Science and Technology</i> , 2017, 76, 147-154.	2.5	12
56	A Novel Pre-treatment Model Predicting Risk of Developing Refractoriness to Transarterial Chemoembolization in Unresectable Hepatocellular Carcinoma. <i>Journal of Cancer</i> , 2020, 11, 4589-4596.	2.5	11
57	Preparation of conductive polylactic acid/high density polyethylene/carbon black composites with low percolation threshold by locating the carbon black at the interface of co-continuous blends. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50291.	2.6	11
58	Dietary Selenium Deficiency and Excess Accelerate Ubiquitin-Mediated Protein Degradation in the Muscle of Rainbow Trout (<i>Oncorhynchus mykiss</i>) via Akt/FoxO3a and NF- κ B Signaling Pathways. <i>Biological Trace Element Research</i> , 2022, 200, 1361-1375.	3.5	11
59	Cell-type action specificity of auxin on <i>Arabidopsis</i> root growth. <i>Plant Journal</i> , 2021, 106, 928-941.	5.7	11
60	Retinal Vessel Segmentation Algorithm Based on Residual Convolution Neural Network. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 786425.	4.1	11
61	Purification and properties of a SDS-resistant xylanase from halophilic <i>Streptomonospora</i> sp. YIM 90494. <i>Cellulose</i> , 2013, 20, 1947-1955.	4.9	10
62	Cloning of the <i>pks3</i> gene of <i>Aurantiochytrium limacinum</i> and functional study of the 3-ketoacyl-ACP reductase and dehydratase enzyme domains. <i>PLoS ONE</i> , 2018, 13, e0208853.	2.5	10
63	Fluorometric determination of mercury(II) by using thymine-thymine mismatches as recognition elements, toehold binding, and enzyme-assisted signal amplification. <i>Mikrochimica Acta</i> , 2019, 186, 551.	5.0	10
64	Ultra-Large Sized Siloxene Nanosheets as Bifunctional Photocatalyst for a Li ₂ Battery with Superior Round-Trip Efficiency and Extra-Long Durability. <i>Angewandte Chemie</i> , 2021, 133, 11357-11361.	2.0	10
65	Research on Environmental Influencing Factors of Overweight and Obesity in Children and Adolescents in China. <i>Nutrients</i> , 2022, 14, 35.	4.1	9
66	Design, synthesis, and structure-activity relationship of novel and effective apixaban derivatives as FXa inhibitors containing 1,2,4-triazole/pyrrole derivatives as P2 binding element. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 5646-5661.	3.0	8
67	Energy-aware congestion control scheme in opportunistic networks. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2017, 12, 412-419.	1.4	8
68	Characterization of a neutral recombinant xylanase from <i>Thermoactinospira rubra</i> YIM 77501T. <i>Antonie Van Leeuwenhoek</i> , 2017, 110, 429-436.	1.7	8
69	Changes in the Photosynthetic Pigment Contents and Transcription Levels of Phycoerythrin-Related Genes in Three <i>Gracilaria lemaneiformis</i> Strains Under Different Light Intensities. <i>Journal of Ocean University of China</i> , 2021, 20, 661-668.	1.2	8
70	<i>Coreopsis tinctoria</i> and Its Flavonoids Ameliorate Hyperglycemia in Obese Mice Induced by High-Fat Diet. <i>Nutrients</i> , 2022, 14, 1160.	4.1	8
71	Energy Efficient Forwarding Algorithm in Opportunistic Networks. <i>Chinese Journal of Electronics</i> , 2016, 25, 957-964.	1.5	7
72	Synthesis and anion binding properties of 1,8-disulfonamidocarbazole dipyromethane Schiff-base macrocycle & its amine analogue. <i>Supramolecular Chemistry</i> , 2016, 28, 305-313.	1.2	7

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73	The pre-mRNA splicing factor RDM16 regulates root stem cell maintenance in <i>Arabidopsis</i> . <i>Journal of Integrative Plant Biology</i> , 2021, 63, 662-678.	8.5	7
74	Ultrahigh-energy sodium ion capacitors enabled by the enhanced intercalation pseudocapacitance of self-standing Ti ₂ Nb ₂ O ₉ /CNF anodes. <i>Nanoscale</i> , 2021, 13, 15781-15788.	5.6	7
75	Abundant defects of zirconium-organic xerogels: High anhydrous proton conductivities over a wide temperature range and formic acid impedance sensing. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 181-191.	9.4	7
76	A randomized phase I study to evaluate the safety, tolerability, pharmacokinetics and food-effect of lgratimod in healthy adult volunteers. <i>European Journal of Clinical Pharmacology</i> , 2018, 74, 69-77.	1.9	6
77	Cloning of pcB and pcA Gene from <i>Gracilariopsis lemaneiformis</i> and Expression of a Fluorescent Phycocyanin in Heterologous Host. <i>Genes</i> , 2019, 10, 322.	2.4	6
78	IgD promotes pannus formation by activating Wnt5A-Fzd5-CTHRC1-NF- κ B signaling pathway in FLS of CIA rats and the regulation of IgD-Fc-Ig fusion protein. <i>International Immunopharmacology</i> , 2021, 101, 108261.	3.8	6
79	A feedback regulation between ARF7-mediated auxin signaling and auxin homeostasis involving MES17 affects plant gravitropism. <i>Journal of Integrative Plant Biology</i> , 2022, 64, 1339-1351.	8.5	6
80	Control Strategy of Hybrid Energy Storage System to Improve AGC Performance of Thermal Generator. , 2018, , .		5
81	Coordinated Optimal Scheduling of Multi-energy Microgrid Considering Uncertainties. , 2018, , .		5
82	Accounting for Several Infrared Radiation Processes in Climate Models. <i>Journal of Climate</i> , 2019, 32, 4601-4620.	3.2	5
83	Cloning of nitrite reductase gene from <i>Haematococcus pluvialis</i> and transcription and enzymatic activity analysis at different nitrate and phosphorus concentration. <i>Gene</i> , 2019, 697, 123-130.	2.2	5
84	Future haze events in Beijing, China: When climate warms by 1.5 and 2.0°C. <i>International Journal of Climatology</i> , 2020, 40, 3689-3700.	3.5	5
85	Cloning and expression of Allophycocyanin gene from <i>Gracilariopsis lemaneiformis</i> and studying the binding sites of phycocyanobilin on its α and β subunits. <i>Journal of Applied Phycology</i> , 2020, 32, 2657-2671.	2.8	5
86	A New Scoring Method for Personalized Prognostic Prediction in Patients with Combined Hepatocellular and Cholangiocarcinoma After Surgery. <i>Journal of Gastrointestinal Surgery</i> , 2021, 25, 971-982.	1.7	5
87	Enhancing triethylamine sensing of ZIF-derived ZnO microspheres arising from cobalt doping and defect engineering. <i>Chemosphere</i> , 2022, 291, 132715.	8.2	5
88	Artemether Ameliorates Non-Alcoholic Steatohepatitis by Repressing Lipogenesis, Inflammation, and Fibrosis in Mice. <i>Frontiers in Pharmacology</i> , 2022, 13, 851342.	3.5	5
89	Wind Farm Level Coordination for Optimal Inertial Control With a Second-Order Cone Predictive Model. <i>IEEE Transactions on Sustainable Energy</i> , 2021, 12, 2353-2366.	8.8	4
90	Thermal Design of VCSEL Arrays for Optical Output Power Improvement. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 3761-3767.	3.0	4

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91	Efficient Human Pose Estimation in Hierarchical Context. IEEE Access, 2019, 7, 29365-29373.	4.2	3
92	Molecular cloning of the cpeT gene encoding a bilin lyase responsible for attachment of phycoerythrobilin to Cys-158 on the Î²-subunit of phycoerythrin in Gracilariopsis lemaneiformis. Journal of Applied Phycology, 2019, 31, 3331-3340.	2.8	3
93	hlgDFc-Ig inhibits B cell function by regulating the BCR-Syk-Btk-NF-Î²B signalling pathway in mice with collagen-induced arthritis. Pharmacological Research, 2021, 173, 105873.	7.1	3
94	High-Performance 3D Vertically Oriented Graphene Photodetector Using a Floating Indium Tin Oxide Channel. Sensors, 2022, 22, 959.	3.8	3
95	Few-layer Mg-deficient borophene nanosheets: I₂ oxidation and ultrasonic delamination from MgB₂. Nanoscale, 2022, 14, 4195-4203.	5.6	3
96	Dietary selenium requirement of triploid rainbow trout (<i>Oncorhynchus mykiss</i>) based on selenium yeast supplementation. Aquaculture Research, 2022, 53, 3365-3378.	1.8	3
97	Sequence-Dependent Tyrosine-Containing Peptide Nanoassemblies for Sensing Tyrosinase and Melanoma. ACS Macro Letters, 2022, 11, 875-881.	4.8	3
98	Notice of Retraction: Comparative study on the responses to NaCl stress in the wild and hydroponic Nostoc flagelliforme. , 2010, , .		2
99	Design of single phase photovoltaic grid-connected inverter based on DSP&ARM. , 2014, , .		2
100	Higher-Load Data Transmitting in Opportunistic Networks Based on Probability Analysis of Communicating Capabilities. , 2016, , .		2
101	A novel control strategy for parallel operation of multi-inverters in low-voltage microgrids. Energy Reports, 2020, 6, 1212-1220.	5.1	2
102	An Immune-Related Gene Signature Predicting Prognosis and Immunotherapy Response in Hepatocellular Carcinoma. Combinatorial Chemistry and High Throughput Screening, 2022, 25, 2203-2216.	1.1	2
103	Genetic regulation of salt stress tolerance revealed by RNA-Seq in cotton diploid wild species, Gossypium davidsonii. , 0, .		1
104	Visual Corneal Photomechanical Analysis Is Combined with the Pentacam Correlation Index for the Diagnosis of Cone Corneas at Different Stages of Progression. Journal of Healthcare Engineering, 2022, 2022, 1-9.	1.9	1
105	Analysis of P-glycoprotein structure and binding sites. , 2010, , .		0
106	New Data and Evidence on the Mineralogy and Geochemistry of Wulantuga High-Ge Coal Deposit of Shengli Coalfield, Inner Mongolia, China. Minerals (Basel, Switzerland), 2020, 10, 17.	2.0	0