

Tao Chen

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

2,151
citations

257450

24
h-index

243625

44
g-index

74
all docs

74
docs citations

74
times ranked

3129
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolic engineering of <i>Escherichia coli</i> using CRISPR-Cas9 mediated genome editing. <i>Metabolic Engineering</i> , 2015, 31, 13-21.	7.0	351
2	Coexistence of Two Forms of LTP in ACC Provides a Synaptic Mechanism for the Interactions between Anxiety and Chronic Pain. <i>Neuron</i> , 2015, 85, 377-389.	8.1	261
3	Genome shuffling: Progress and applications for phenotype improvement. <i>Biotechnology Advances</i> , 2009, 27, 996-1005.	11.7	122
4	Hierarchical NiCo ₂ O ₄ @NiCo ₂ S ₄ Nanocomposite on Ni Foam as an Electrode for Hybrid Supercapacitors. <i>ACS Omega</i> , 2018, 3, 5634-5642.	3.5	99
5	Distribution, ecological risk and source identification of heavy metals in sediments from the Baiyangdian Lake, Northern China. <i>Chemosphere</i> , 2019, 237, 124425.	8.2	77
6	Theoretical perspectives on nonnative interactions and intrinsic disorder in protein folding and binding. <i>Current Opinion in Structural Biology</i> , 2015, 30, 32-42.	5.7	70
7	Chiral Primary Amine Catalysis for Asymmetric Mannich Reactions of Aldehydes with Ketimines: Stereoselectivity and Reactivity. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12697-12701.	13.8	67
8	Intelligent Textiles with Comfort Regulation and Inhibition of Bacterial Adhesion Realized by Cross-Linking Poly(<i>n</i> -isopropylacrylamide-co-ethylene glycol methacrylate) to Cotton Fabrics. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13647-13656.	8.0	62
9	Hydrogen sulfide: a multi-tasking signal molecule in the regulation of oxidative stress responses. <i>Journal of Experimental Botany</i> , 2020, 71, 2862-2869.	4.8	59
10	Highly Ordered Hierarchical Pt and PtNi Nanowire Arrays for Enhanced Electrocatalytic Activity toward Methanol Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9444-9450.	8.0	54
11	Impaired Presynaptic Long-Term Potentiation in the Anterior Cingulate Cortex of <i>Fmr1</i> Knock-out Mice. <i>Journal of Neuroscience</i> , 2015, 35, 2033-2043.	3.6	51
12	Cost-effective and environmentally friendly synthesis of 3D Ni ₂ P from scrap nickel for highly efficient hydrogen evolution in both acidic and alkaline media. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4088-4094.	10.3	46
13	A Strategy in The Design of Micellar Shape for Cancer Therapy. <i>Advanced Healthcare Materials</i> , 2012, 1, 214-224.	7.6	44
14	Engineering <i>Bacillus subtilis</i> for acetoin production from glucose and xylose mixtures. <i>Journal of Biotechnology</i> , 2013, 168, 499-505.	3.8	44
15	Functional Evaluation of the Signal Peptides of Secreted Proteins. <i>Bio-protocol</i> , 2018, 8, e2839.	0.4	43
16	Platinum-silver alloyed octahedral nanocrystals as electrocatalyst for methanol oxidation reaction. <i>Journal of Colloid and Interface Science</i> , 2018, 513, 251-257.	9.4	40
17	Native Contact Density and Nonnative Hydrophobic Effects in the Folding of Bacterial Immunity Proteins. <i>PLoS Computational Biology</i> , 2015, 11, e1004260.	3.2	34
18	Aerobic production of succinate from arabinose by metabolically engineered <i>Corynebacterium glutamicum</i> . <i>Bioresource Technology</i> , 2014, 151, 411-414.	9.6	32

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19	Effects of desolvation barriers and sidechains on local “nonlocal coupling and chevron behaviors in coarse-grained models of protein folding. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 6460-6479.	2.8	31
20	Synthesis and characterization of a novel magnetic calcium-rich nanocomposite and its remediation behaviour for As(III) and Pb(II) co-contamination in aqueous systems. <i>Science of the Total Environment</i> , 2020, 706, 135122.	8.0	31
21	Metabolic engineering of <i>Escherichia coli</i> and in silico comparing of carboxylation pathways for high succinate productivity under aerobic conditions. <i>Microbiological Research</i> , 2014, 169, 432-440.	5.3	29
22	Catalytic Asymmetric [4 + 2] Cycloaddition of <i>ortho</i> -Alkenyl Naphthols/Phenols with <i>ortho</i> -Quinone Methides: Highly Stereoselective Synthesis of Chiral 2,3,4-Trisubstituted Chromans. <i>Journal of Organic Chemistry</i> , 2020, 85, 5231-5244.	3.2	28
23	Spinal Microglial Motility is Independent of Neuronal Activity and Plasticity in Adult Mice. <i>Molecular Pain</i> , 2010, 6, 1744-8069-6-19.	2.1	27
24	Online Wear Particle Detection Sensors for Wear Monitoring of Mechanical Equipment—A Review. <i>IEEE Sensors Journal</i> , 2022, 22, 2930-2947.	4.7	26
25	A critical comparison of coarse-grained structure-based approaches and atomic models of protein folding. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13629-13639.	2.8	24
26	Adaptive chirality of achiral tetraphenylethene-based tetracationic cyclophanes with dual responses of fluorescence and circular dichroism in water. <i>Chemical Communications</i> , 2021, 57, 3135-3138.	4.1	24
27	<i>Epichloa gansuensis</i> endophyte-infection alters soil enzymes activity and soil nutrients at different growth stages of <i>Achnatherum inebrians</i> . <i>Plant and Soil</i> , 2020, 455, 227-240.	3.7	22
28	Rhodium(I)/Zn(OTf) ₂ —Catalyzed Asymmetric Ring Opening/Cyclopropanation of Oxabenzonorbornadienes with Phosphorus Ylides. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15819-15823.	13.8	21
29	Amphiphilic PEG-based ether anhydride terpolymers: Synthesis, characterization, and micellization. <i>Journal of Applied Polymer Science</i> , 2010, 118, 3576-3585.	2.6	19
30	BYPASS1-LIKE, A DUF793 Family Protein, Participates in Freezing Tolerance via the CBF Pathway in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2019, 10, 807.	3.6	18
31	High Performances of Artificial Nacre-Like Graphene Oxide-Carrageenan Bio-Nanocomposite Films. <i>Materials</i> , 2017, 10, 536.	2.9	17
32	TEMPO-Functionalized Nanoreactors from Bottlebrush Copolymers for the Selective Oxidation of Alcohols in Water. <i>Journal of Organic Chemistry</i> , 2021, 86, 8027-8035.	3.2	17
33	Plant rhizosphere, soil microenvironment, and functional genes in the nitrogen removal process of bioretention. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 2070-2079.	3.5	16
34	The fungal endophyte <i>Epichloa gansuensis</i> increases NaCl-tolerance in <i>Achnatherum inebrians</i> through enhancing the activity of plasma membrane H ⁺ -ATPase and glucose-6-phosphate dehydrogenase. <i>Science China Life Sciences</i> , 2021, 64, 452-465.	4.9	16
35	Thermoresponsive polymers based on oligo(ethylene glycol) methyl ether methacrylate and modified substrates with thermosensitivity. <i>Macromolecular Research</i> , 2017, 25, 206-213.	2.4	15
36	Chiral Primary Amine Catalysis for Asymmetric Mannich Reactions of Aldehydes with Ketimines: Stereoselectivity and Reactivity. <i>Angewandte Chemie</i> , 2017, 129, 12871-12875.	2.0	15

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37	The folding pathways and thermodynamics of semiflexible polymers. <i>Journal of Chemical Physics</i> , 2018, 148, 184901.	3.0	14
38	Involvement of sulfhydryl compounds and antioxidant enzymes in H ₂ S-induced heat tolerance in tobacco (<i>Nicotiana tabacum</i> L.) suspension-cultured cells. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2015, 51, 428-437.	2.1	11
39	Simultaneous ultrasonication-assisted internal mixing to prepare MWCNT-filled epoxy composites with increased strength and thermal conductivity. <i>Polymer Composites</i> , 2016, 37, 870-880.	4.6	11
40	Volumetric Physics of Polypeptide Coil-Helix Transitions. <i>Biochemistry</i> , 2016, 55, 6269-6281.	2.5	11
41	Non-negative matrix factorization temporal topic models and clinical text data identify COVID-19 pandemic effects on primary healthcare and community health in Toronto, Canada. <i>Journal of Biomedical Informatics</i> , 2022, 128, 104034.	4.3	11
42	Wide-Range Wavelength-Tunable Mode-Locked Fiber Laser Based on Fiber Bragg Grating. <i>IEEE Photonics Technology Letters</i> , 2020, 32, 1025-1028.	2.5	10
43	Effect of Biological Powdered Activated Carbon on Horizontal Transfer of Antibiotic Resistance Genes in Secondary Effluent. <i>Environmental Engineering Science</i> , 2020, 37, 365-372.	1.6	10
44	Evolvability and Single-Genotype Fluctuation in Phenotypic Properties: A Simple Heteropolymer Model. <i>Biophysical Journal</i> , 2010, 98, 2487-2496.	0.5	9
45	The low populated folding intermediate of a mutant of the Fyn SH3 domain identified by a simple model. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22321-22328.	2.8	9
46	TRANSTHYRETIN-LIKE and BYPASS1-LIKE co-regulate growth and cold tolerance in Arabidopsis. <i>BMC Plant Biology</i> , 2020, 20, 332.	3.6	8
47	Effect of synthesis highly ordered TiO ₂ nanotube arrays with enhanced photocatalytic properties by time, electrolytic voltage, heating temperature and Polyvinyl pyrrolidone. <i>Journal of Porous Materials</i> , 2016, 23, 1239-1247.	2.6	7
48	Agglomerate size evolution in modular twin-screw extruder: Modeling and validation with CaCO ₃ /LLDPE compounding experiments. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45535.	2.6	7
49	Self-Assembled Catalytic Nanoreactors from Molecular Brushes by Utilizing Postpolymerization Modification for Catalyst Attachment. <i>ACS Applied Polymer Materials</i> , 2022, 4, 1411-1421.	4.4	7
50	Morphological transition of self-assembled architectures from PEG-based ether-anhydride terpolymers. <i>Soft Matter</i> , 2013, 9, 3021.	2.7	6
51	Metal/TiO ₂ hierarchical nanocomposite arrays for the remarkable enhancement of photocatalytic activity. <i>RSC Advances</i> , 2017, 7, 16535-16541.	3.6	6
52	Effects of Non-native Interactions on Frustrated Proteins Folding under Confinement. <i>Journal of Physical Chemistry B</i> , 2018, 122, 7654-7667.	2.6	6
53	Fabrication of Nanoreactors Based on End-Functionalized Polymethacrylate and Their Catalysis Application. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 4569-4577.	3.7	6
54	Influences of heterogeneous native contact energy and many-body interactions on the prediction of protein folding mechanisms. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 31304-31311.	2.8	5

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55	The role of solvent quality and chain stiffness on the end-to-end contact kinetics of semiflexible polymers. <i>Journal of Chemical Physics</i> , 2018, 149, 234903.	3.0	5
56	Rhodium(I)/Zn(OTf) ₂ Catalyzed Asymmetric Ring Opening/Cyclopropanation of Oxabenzonorbornadienes with Phosphorus Ylides. <i>Angewandte Chemie</i> , 2019, 131, 15966-15970.	2.0	5
57	An Experimental Study on Milling Titanium Alloy with a Revolving Cycloid Milling Cutter. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1423.	2.5	5
58	Engineering microorganisms based on molecular evolutionary analysis: a succinate production case study. <i>Evolutionary Applications</i> , 2014, 7, 913-920.	3.1	4
59	Mixing ability examination of three different rotor cross sections and rotor geometry quantification with pressurization coefficient. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46623.	2.6	4
60	Triphenylphosphine-Containing Thermo-Responsive Copolymers: Synthesis, Characterization and Catalysis Application. <i>Macromolecular Research</i> , 2019, 27, 931-937.	2.4	4
61	Ligand Effect on Geometry and Electronic Structures of Face-Centered Cubic Ag ₁₄ and Ag ₂₃ Nanoclusters. <i>Journal of Physical Chemistry C</i> , 2020, 124, 13421-13426.	3.1	4
62	Review on online inductive wear debris monitoring technology. <i>Journal of Engineering</i> , 2019, 2019, 8518-8521.	1.1	3
63	The folding and misfolding mechanisms of multidomain proteins. <i>Medicine in Drug Discovery</i> , 2022, , 100126.	4.5	3
64	Process and influencing factors of N removal in grassed paving system by 15N tracing analysis. <i>Water Science and Technology</i> , 2018, 78, 611-621.	2.5	2
65	Characterization of Ti-Cu Films Deposited by HPPMS and Effect on NO Catalytic Release and Platelet Adhesion Behavior. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2018, 33, 505-511.	1.0	1
66	Forming a Double-Helix Phase of Single Polymer Chains by the Cooperation between Local Structure and Nonlocal Attraction. <i>Physical Review Letters</i> , 2022, 128, .	7.8	1
67	Effects of Surface Tethering on the Thermodynamics and Kinetics of Frustrated Protein Folding. <i>Journal of Physical Chemistry B</i> , 0, , .	2.6	1
68	Femtosecond-Laser-Induced Formation of Visible-Light-Emitting Structures Inside Silicon. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 387-390.	2.5	0
69	Dynamic testing and analysis of turbine generator shafting. <i>Journal of Engineering</i> , 2019, 2019, 8619-8623.	1.1	0
70	Review on numerical analysis of electromagnetic characteristics for ferromagnetic wear debris. <i>Journal of Engineering</i> , 2019, 2019, 8715-8719.	1.1	0