Zhilong Wang

List of Publications by Year
in descending order

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Version: 2024-02-01

43 papers	676 citations	516215 16 h-index	642321 23 g-index
43 all docs	43 docs citations	43 times ranked	496 citing authors

#	Article	IF	Citations
1	Deep Learning Accelerates the Discovery of Twoâ€Dimensional Catalysts for Hydrogen Evolution Reaction. Energy and Environmental Materials, 2023, 6, .	7.3	20
2	DeepTMC: A deep learning platform to targeted design doped transition metal compounds. Energy Storage Materials, 2022, 45, 1201-1211.	9.5	9
3	An inductive transfer learning force field (ITLFF) protocol builds protein force fields in seconds. Briefings in Bioinformatics, 2022, 23, .	3.2	5
4	Computational screening of spinel structure cathodes for Li-ion battery with low expansion and rapid ion kinetics. Computational Materials Science, 2022, 204, 111187.	1.4	5
5	Binder-free S@Ti3C2Tx sandwich structure film as a high-capacity cathode for a stable aluminum-sulfur battery. Science China Materials, 2022, 65, 1463-1475.	3.5	20
6	Click Chemistry-Mediated Particle Counting Sensing via Cu(II)-Polyglutamic Acid Coordination Chemistry and Enzymatic Reaction. Analytical Chemistry, 2022, 94, 5293-5300.	3.2	5
7	Crystal substrate inhibition during microbial transformation of phytosterols in Pickering emulsions. Applied Microbiology and Biotechnology, 2022, 106, 2403-2414.	1.7	10
8	Vision for energy material design: A roadmap for integrated data-driven modeling. Journal of Energy Chemistry, 2022, 71, 56-62.	7.1	12
9	Azaphilone alkaloids: prospective source of natural food pigments. Applied Microbiology and Biotechnology, 2022, 106, 469-484.	1.7	6
10	An Ensemble Learning Platform for the Large-Scale Exploration of New Double Perovskites. ACS Applied Materials & Interfaces, 2022, 14, 717-725.	4.0	16
11	Demulsification of Bacteria-Stabilized Pickering Emulsions Using Modified Silica Nanoparticles. ACS Applied Materials & Interfaces, 2022, 14, 24102-24112.	4.0	12
12	Accelerated Mining of 2D Van der Waals Heterojunctions by Integrating Supervised and Unsupervised Learning. Chemistry of Materials, 2022, 34, 5571-5583.	3.2	7
13	Unraveling the Anchoring Effect of MXene-Supported Single Atoms as Cathodes for Aluminumâ€"Sulfur Batteries. , 2022, 4, 1436-1445.		11
14	Ultra-fast and accurate binding energy prediction of shuttle effect-suppressive sulfur hosts for lithium-sulfur batteries using machine learning. Energy Storage Materials, 2021, 35, 88-98.	9.5	42
15	Accelerated discovery of stable spinels in energy systems via machine learning. Nano Energy, 2021, 81, 105665.	8.2	30
16	Neural Networks Accelerate the <i>Ab Initio</i> Prediction of Solidâ€"Solid Phase Transitions at High Pressures. Journal of Physical Chemistry Letters, 2021, 12, 132-137.	2.1	10
17	Potential inhibitors for the novel coronavirus (SARS-CoV-2). Briefings in Bioinformatics, 2021, 22, 1225-1231.	3.2	23
18	One-step and DNA amplification-free detection of Listeria monocytogenes in ham samples: Combining magnetic relaxation switching and DNA hybridization reaction. Food Chemistry, 2021, 338, 127837.	4.2	38

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19	Interfacial biocatalysis in bacteria-stabilized Pickering emulsions for microbial transformation of hydrophobic chemicals. Catalysis Science and Technology, 2021, 11, 2816-2826.	2.1	18
20	Binding affinity and mechanisms of SARS-CoV-2 variants. Computational and Structural Biotechnology Journal, 2021, 19, 4184-4191.	1.9	20
21	Highly Efficient Production of Tailored <i>Monascus</i> Pigments by Using a Biocompatible Chemical Reaction Interfacing with Microbial Metabolism. ACS Sustainable Chemistry and Engineering, 2021, 9, 3347-3356.	3.2	8
22	Machine learning builds full-QM precision protein force fields in seconds. Briefings in Bioinformatics, 2021, 22, .	3.2	8
23	Deep learning for ultra-fast and high precision screening of energy materials. Energy Storage Materials, 2021, 39, 45-53.	9.5	23
24	Machine-Learning-Enabled Tricks of the Trade for Rapid Host Material Discovery in Liâ€“S Battery. ACS Applied Materials & Interfaces, 2021, 13, 53388-53397.	4.0	21
25	Unsupervised discovery of thin-film photovoltaic materials from unlabeled data. Npj Computational Materials, 2021, 7, .	3.5	13
26	Harnessing artificial intelligence to holistic design and identification for solid electrolytes. Nano Energy, 2021, 89, 106337.	8.2	16
27	A Machine Learning Shortcut for Screening the Spinel Structures of Mg/Zn Ion Battery Cathodes with a High Conductivity and Rapid Ion Kinetics. Energy Storage Materials, 2021, 42, 277-285.	9.5	18
28	Machine learning accelerates quantum mechanics predictions of molecular crystals. Physics Reports, 2021, 934, 1-71.	10.3	21
29	Predicting adsorption ability of adsorbents at arbitrary sites for pollutants using deep transfer learning. Npj Computational Materials, 2021, 7, .	3.5	22
30	Engineering early prediction of supercapacitorsâ€™ cycle life using neural networks. Materials Today Energy, 2020, 18, 100537.	2.5	14
31	Interfacing a phosphate catalytic reaction with a microbial metabolism for the production of azaphilone alkaloids. Reaction Chemistry and Engineering, 2020, 5, 2048-2052.	1.9	6
32	Combining the Fragmentation Approach and Neural Network Potential Energy Surfaces of Fragments for Accurate Calculation of Protein Energy. Journal of Physical Chemistry B, 2020, 124, 3027-3035.	1.2	27
33	A metal organic foam-derived zinc cobalt sulfide with improved binding energies towards polysulfides for lithiumâ€“sulfur batteries. Ceramics International, 2020, 46, 14056-14063.	2.3	22
34	Gd3+-nanoparticle-enhanced multivalent biosensing that combines magnetic relaxation switching and magnetic separation. Biosensors and Bioelectronics, 2020, 155, 112106.	5.3	25
35	Unsupervised Assisted Directional Design of Chemical Reactions. Cell Reports Physical Science, 2020, 1, 100269.	2.8	2
36	Merging of a chemical reaction with microbial metabolism<i>via</i>inverse phase transfer catalysis for efficient production of red<i>Monascus</i>pigments. Reaction Chemistry and Engineering, 2019, 4, 1447-1458.	1.9	7

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37	Efficient production of red Monascus pigments with single non-natural amine residue by in situ chemical modification. World Journal of Microbiology and Biotechnology, 2019, 35, 13.	1.7	8
38	Production of Monascus pigments as extracellular crystals by cell suspension culture. Applied Microbiology and Biotechnology, 2018, 102, 677-687.	1.7	13
39	Diversifying of Chemical Structure of Native Monascus Pigments. Frontiers in Microbiology, 2018, 9, 3143.	1.5	43
40	Extraction of anionic dyes with ionic liquidâ€“nonionic surfactant aqueous two-phase system. Separation Science and Technology, 2017, 52, 804-811.	1.3	10
41	Biocatalytic activity of Monascus mycelia depending on physiology and high sensitivity to product concentration. AMB Express, 2017, 7, 88.	1.4	2
42	Releasing intracellular product to prepare whole cell biocatalyst for biosynthesis of Monascus pigments in waterâ€“edible oil two-phase system. Bioprocess and Biosystems Engineering, 2016, 39, 1785-1791.	1.7	7
43	Biosynthesis of Monascus pigments by resting cell submerged culture in nonionic surfactant micelle aqueous solution. Applied Microbiology and Biotechnology, 2016, 100, 7083-7089.	1.7	21