

Zhilong Wang

List of Publications by Year in descending order

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43
papers

676
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516215

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43
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496
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#	ARTICLE	IF	CITATIONS
1	Diversifying of Chemical Structure of Native <i>Monascus</i> Pigments. <i>Frontiers in Microbiology</i> , 2018, 9, 3143.	1.5	43
2	Ultra-fast and accurate binding energy prediction of shuttle effect-suppressive sulfur hosts for lithium-sulfur batteries using machine learning. <i>Energy Storage Materials</i> , 2021, 35, 88-98.	9.5	42
3	One-step and DNA amplification-free detection of <i>Listeria monocytogenes</i> in ham samples: Combining magnetic relaxation switching and DNA hybridization reaction. <i>Food Chemistry</i> , 2021, 338, 127837.	4.2	38
4	Accelerated discovery of stable spinels in energy systems via machine learning. <i>Nano Energy</i> , 2021, 81, 105665.	8.2	30
5	Combining the Fragmentation Approach and Neural Network Potential Energy Surfaces of Fragments for Accurate Calculation of Protein Energy. <i>Journal of Physical Chemistry B</i> , 2020, 124, 3027-3035.	1.2	27
6	Gd ³⁺ -nanoparticle-enhanced multivalent biosensing that combines magnetic relaxation switching and magnetic separation. <i>Biosensors and Bioelectronics</i> , 2020, 155, 112106.	5.3	25
7	Potential inhibitors for the novel coronavirus (SARS-CoV-2). <i>Briefings in Bioinformatics</i> , 2021, 22, 1225-1231.	3.2	23
8	Deep learning for ultra-fast and high precision screening of energy materials. <i>Energy Storage Materials</i> , 2021, 39, 45-53.	9.5	23
9	A metal organic foam-derived zinc cobalt sulfide with improved binding energies towards polysulfides for lithium-sulfur batteries. <i>Ceramics International</i> , 2020, 46, 14056-14063.	2.3	22
10	Predicting adsorption ability of adsorbents at arbitrary sites for pollutants using deep transfer learning. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	22
11	Biosynthesis of <i>Monascus</i> pigments by resting cell submerged culture in nonionic surfactant micelle aqueous solution. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 7083-7089.	1.7	21
12	Machine-Learning-Enabled Tricks of the Trade for Rapid Host Material Discovery in Li-S Battery. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 53388-53397.	4.0	21
13	Machine learning accelerates quantum mechanics predictions of molecular crystals. <i>Physics Reports</i> , 2021, 934, 1-71.	10.3	21
14	Binding affinity and mechanisms of SARS-CoV-2 variants. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 4184-4191.	1.9	20
15	Deep Learning Accelerates the Discovery of Two-Dimensional Catalysts for Hydrogen Evolution Reaction. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	20
16	Binder-free S@Ti ₃ C ₂ T _x sandwich structure film as a high-capacity cathode for a stable aluminum-sulfur battery. <i>Science China Materials</i> , 2022, 65, 1463-1475.	3.5	20
17	Interfacial biocatalysis in bacteria-stabilized Pickering emulsions for microbial transformation of hydrophobic chemicals. <i>Catalysis Science and Technology</i> , 2021, 11, 2816-2826.	2.1	18
18	A Machine Learning Shortcut for Screening the Spinel Structures of Mg/Zn Ion Battery Cathodes with a High Conductivity and Rapid Ion Kinetics. <i>Energy Storage Materials</i> , 2021, 42, 277-285.	9.5	18

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19	Harnessing artificial intelligence to holistic design and identification for solid electrolytes. <i>Nano Energy</i> , 2021, 89, 106337.	8.2	16
20	An Ensemble Learning Platform for the Large-Scale Exploration of New Double Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 717-725.	4.0	16
21	Engineering early prediction of supercapacitors' cycle life using neural networks. <i>Materials Today Energy</i> , 2020, 18, 100537.	2.5	14
22	Production of <i>Monascus</i> pigments as extracellular crystals by cell suspension culture. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 677-687.	1.7	13
23	Unsupervised discovery of thin-film photovoltaic materials from unlabeled data. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	13
24	Vision for energy material design: A roadmap for integrated data-driven modeling. <i>Journal of Energy Chemistry</i> , 2022, 71, 56-62.	7.1	12
25	Demulsification of Bacteria-Stabilized Pickering Emulsions Using Modified Silica Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 24102-24112.	4.0	12
26	Unraveling the Anchoring Effect of MXene-Supported Single Atoms as Cathodes for Aluminum-Sulfur Batteries. , 2022, 4, 1436-1445.		11
27	Extraction of anionic dyes with ionic liquid/nonionic surfactant aqueous two-phase system. <i>Separation Science and Technology</i> , 2017, 52, 804-811.	1.3	10
28	Neural Networks Accelerate the <i>Ab Initio</i> Prediction of Solid-Solid Phase Transitions at High Pressures. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 132-137.	2.1	10
29	Crystal substrate inhibition during microbial transformation of phytosterols in Pickering emulsions. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 2403-2414.	1.7	10
30	DeepTMC: A deep learning platform to targeted design doped transition metal compounds. <i>Energy Storage Materials</i> , 2022, 45, 1201-1211.	9.5	9
31	Efficient production of red <i>Monascus</i> pigments with single non-natural amine residue by in situ chemical modification. <i>World Journal of Microbiology and Biotechnology</i> , 2019, 35, 13.	1.7	8
32	Highly Efficient Production of Tailored <i>Monascus</i> Pigments by Using a Biocompatible Chemical Reaction Interfacing with Microbial Metabolism. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3347-3356.	3.2	8
33	Machine learning builds full-QM precision protein force fields in seconds. <i>Briefings in Bioinformatics</i> , 2021, 22, .	3.2	8
34	Releasing intracellular product to prepare whole cell biocatalyst for biosynthesis of <i>Monascus</i> pigments in water-edible oil two-phase system. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 1785-1791.	1.7	7
35	Merging of a chemical reaction with microbial metabolism via inverse phase transfer catalysis for efficient production of red <i>Monascus</i> pigments. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 1447-1458.	1.9	7
36	Accelerated Mining of 2D Van der Waals Heterojunctions by Integrating Supervised and Unsupervised Learning. <i>Chemistry of Materials</i> , 2022, 34, 5571-5583.	3.2	7

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37	Interfacing a phosphate catalytic reaction with a microbial metabolism for the production of azaphilone alkaloids. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 2048-2052.	1.9	6
38	Azaphilone alkaloids: prospective source of natural food pigments. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 469-484.	1.7	6
39	An inductive transfer learning force field (ITLFF) protocol builds protein force fields in seconds. <i>Briefings in Bioinformatics</i> , 2022, 23, .	3.2	5
40	Computational screening of spinel structure cathodes for Li-ion battery with low expansion and rapid ion kinetics. <i>Computational Materials Science</i> , 2022, 204, 111187.	1.4	5
41	Click Chemistry-Mediated Particle Counting Sensing via Cu(II)-Polyglutamic Acid Coordination Chemistry and Enzymatic Reaction. <i>Analytical Chemistry</i> , 2022, 94, 5293-5300.	3.2	5
42	Biocatalytic activity of <i>Monascus mycelia</i> depending on physiology and high sensitivity to product concentration. <i>AMB Express</i> , 2017, 7, 88.	1.4	2
43	Unsupervised Assisted Directional Design of Chemical Reactions. <i>Cell Reports Physical Science</i> , 2020, 1, 100269.	2.8	2