Yuan Yao

List of Publications by Year
in descending order

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40 papers	1,069 citations	361413 20 h-index	414414 32 g-index
40 all docs	40 docs citations	40 times ranked	1354 citing authors

#	Article	IF	Citations
1	Efficient molecular evolution to generate enantioselective enzymes using a dual-channel microfluidic droplet screening platform. Nature Communications, 2018, 9, 1030.	12.8	102
2	One-pot synthesis and antifungal activity against plant pathogens of quinazolinone derivatives containing an amide moiety. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 2273-2277.	2.2	72
3	Cardioprotective effect of Salvianolic acid B on acute myocardial infarction by promoting autophagy and neovascularization and inhibiting apoptosis. Journal of Pharmacy and Pharmacology, 2016, 68, 941-952.	2.4	66
4	Peroxymonosulfate activation by Fe3O4-MnO2/CNT nanohybrid electroactive filter towards ultrafast micropollutants decontamination: Performance and mechanism. Journal of Hazardous Materials, 2022, 423, 127111.	12.4	62
5	Visible-Light-Enhanced Ring Opening of Cycloalkanols Enabled by BrÃ¸nsted Base-Tethered Acyloxy Radical Induced Hydrogen Atom Transfer-Electron Transfer. Organic Letters, 2018, 20, 1228-1231.	4.6	60
6	Development of Atomic Hydrogen-Mediated Electrocatalytic Filtration System for Peroxymonosulfate Activation Towards Ultrafast Degradation of Emerging Organic Contaminants. Applied Catalysis B: Environmental, 2021, 298, 120593.	20.2	57
7	Rhodium(II)/Chiral Phosphoric Acidâ€Cocatalyzed Enantioselective Oâ€“H Bond Insertion of Î±â€Diazo Esters. Advanced Synthesis and Catalysis, 2017, 359, 2754-2761.	4.3	54
8	Tuning the electronic structure of transition metals embedded in nitrogen-doped graphene for electrocatalytic nitrogen reduction: a first-principles study. Nanoscale, 2020, 12, 9696-9707.	5.6	50
9	An electroactive single-atom copper anchored MXene nanohybrid filter for ultrafast water decontamination. Journal of Materials Chemistry A, 2021, 9, 25964-25973.	10.3	43
10	Enabling Nitrogen Fixation on Bi₂WO₆ Photocatalyst by c-PAN Surface Decoration. ACS Sustainable Chemistry and Engineering, 2018, 6, 11190-11195.	6.7	42
11	A new strategy for statistical analysis-based fingerprint establishment: Application to quality assessment of Semen sojae praeparatum. Food Chemistry, 2018, 258, 189-198.	8.2	38
12	Trimetallic single-cluster catalysts for electrochemical nitrogen reduction reaction: Activity prediction, mechanism, and electronic descriptor. Chemical Engineering Journal, 2021, 426, 130745.	12.7	38
13	Building up bimetallic active sites for electrocatalyzing hydrogen evolution reaction under acidic and alkaline conditions. Chemical Engineering Journal, 2021, 413, 128027.	12.7	35
14	Metal- and additive-free oxygen-atom transfer reaction: an efficient and chemoselective oxidation of sulfides to sulfoxides with cyclic diacyl peroxides. Organic and Biomolecular Chemistry, 2017, 15, 2647-2654.	2.8	34
15	Liuwei Dihuang soft capsules attenuates endothelial cell apoptosis to prevent atherosclerosis through GPR30-mediated regulation in ovariectomized ApoE-deficient mice. Journal of Ethnopharmacology, 2017, 208, 185-198.	4.1	32
16	Why Does the G117H Mutation Considerably Improve the Activity of Human Butyrylcholinesterase against Sarin? Insights from Quantum Mechanical/Molecular Mechanical Free Energy Calculations. Biochemistry, 2012, 51, 8980-8992.	2.5	30
17	MicroRNA-20b Promotes Cardiac Hypertrophy by the Inhibition of Mitofusin 2-Mediated Inter-organelle Ca2+ Cross-Talk. Molecular Therapy - Nucleic Acids, 2020, 19, 1343-1356.	5.1	27
18	Availability, prices and affordability of essential medicines for children: a cross-sectional survey in Jiangsu Province, China. BMJ Open, 2018, 8, e023646.	1.9	24

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19	Carbon nanotube filter functionalized with MIL-101(Fe) for enhanced flow-through electro-Fenton. Environmental Research, 2022, 204, 112117.	7.5	24
20	Sulfonamide-Directed Chemo- and Site-Selective Oxidative Halogenation/Amination Using Halogenating Reagents Generated in Situ from Cyclic Diacyl Peroxides. Journal of Organic Chemistry, 2018, 83, 3305-3315.	3.2	22
21	Modulation effect in adjacent dual metal single atom catalysts for electrochemical nitrogen reduction reaction. Chinese Chemical Letters, 2022, 33, 1455-1458.	9.0	21
22	Ammonia Synthesis via Electrochemical Nitrogen Reduction Reaction on Iron Molybdate under Ambient Conditions. European Journal of Inorganic Chemistry, 2020, 2020, 3236-3241.	2.0	16
23	Quantification of isoflavone glycosides and aglycones in rat plasma by LCâ€“MS/MS: Troubleshooting of interference from food and its application to pharmacokinetic study of Semen Sojae Praeparatum extract. Journal of Pharmaceutical and Biomedical Analysis, 2018, 161, 444-454.	2.8	15
24	Metalâ€Free Geminal Difunctionalization of Diazocarbonyl Compounds: A Oneâ€Pot Multicomponent Strategy for the Construction of Î±,Î²â€Diamino Carbonyl Derivatives. Chemistry - A European Journal, 2018, 24, 4805-4809.	3.3	13
25	Trichloroacetonitrile as an efficient activating agent for theipso-hydroxylation of arylboronic acids to phenolic compounds. Organic and Biomolecular Chemistry, 2019, 17, 7558-7563.	2.8	13
26	Amorphous core/shell Ti-doped SnO2 with synergistically improved N2 adsorption/activation and electrical conductivity for electrochemical N2 reduction. Chinese Chemical Letters, 2022, 33, 4655-4658.	9.0	13
27	In-situ growth of PbI2 on ligand-free FAPbBr3 nanocrystals to significantly ameliorate the stability of CO2 photoreduction. Chinese Chemical Letters, 2022, 33, 3039-3042.	9.0	11
28	Liuwei Dihuang, a traditional Chinese medicinal formula, inhibits proliferation and migration of vascular smooth muscle cells via modulation of estrogen receptors. International Journal of Molecular Medicine, 2018, 42, 31-40.	4.0	10
29	Fast and Reliable Thermodynamic Approach for Determining the Protonation State of the Asp Dyad. Journal of Chemical Information and Modeling, 2017, 57, 2273-2280.	5.4	7
30	Unexpected protonation state of Glu197 discovered from simulations of tacrine in butyrylcholinesterase. Physical Chemistry Chemical Physics, 2018, 20, 14938-14946.	2.8	7
31	Vibronic Coupling of Adjacent Single-Atom Co and Zn Sites for Bifunctional Electrocatalysis of Oxygen Reduction and Evolution Reactions. Journal of Physical Chemistry Letters, 2022, 13, 2548-2554.	4.6	7
32	Atomically dispersed V-N-C catalyst with saturated coordination effect for boosting electrochemical oxygen reduction. Chemical Engineering Journal, 2022, 444, 136363.	12.7	7
33	Determination of the protonation state of the Asp dyad: conventional molecular dynamics versus thermodynamic integration. Journal of Molecular Modeling, 2016, 22, 58.	1.8	4
34	Theoretical study on the fluorination of benzene with N-Fluoropyridinium salts in acetonitrile solution. Structural Chemistry, 2018, 29, 1601-1607.	2.0	3
35	Fluorination of benzene with disubstituted N-fluoropyridinium salts in acetonitrile solution: a DFT study. Theoretical Chemistry Accounts, 2019, 138, 1.	1.4	3
36	An Injectable Hydrogel for Treatment of Chronic Neuropathic Pain. Macromolecular Bioscience, 2022, 22, e2100529.	4.1	3

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37	Reaction pathway for cocaine hydrolase-catalyzed hydrolysis of (+)-cocaine. Theoretical Chemistry Accounts, 2016, 135, 1.	1.4	2
38	Acidity-dependent self-rolling of graphene oxide nanoscrolls via metal cation-Ї€ interaction. Science China Materials, 2022, 65, 1560-1568.	6.3	2
39	Optimization of CHARMM force field parameters for the chalcone fragment. Science China Chemistry, 2012, 55, 2580-2586.	8.2	0
40	Pseudo Jahnâ€“Teller Origin of Buckling Deformation of Two-dimensional Group-IV-Based Triphosphides as an Anode of Sodium-Ion Batteries. Journal of Physical Chemistry C, 2020, 124, 7699-7707.	3.1	0