

Haijie Cao

List of Publications by Year in descending order

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papers

1,675
citations

471509

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395702

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33
all docs

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docs citations

33
times ranked

1951
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of oxygen vacancies of ABO ₃ perovskite oxides in the oxygen reduction reaction. Energy and Environmental Science, 2020, 13, 1408-1428.	30.8	477
2	Synthesis of amorphous nickel-cobalt-manganese hydroxides for supercapacitor-battery hybrid energy storage system. Energy Storage Materials, 2019, 17, 194-203.	18.0	236
3	Sea-urchin-like nickel-cobalt phosphide/phosphate composites as advanced battery materials for hybrid supercapacitors. Journal of Materials Chemistry A, 2019, 7, 6241-6249.	10.3	186
4	Synthesis of mesoporous nickel-cobalt-manganese sulfides as electroactive materials for hybrid supercapacitors. Chemical Engineering Journal, 2021, 405, 126928.	12.7	99
5	N-doping activated defective Co ₃ O ₄ as an efficient catalyst for low-temperature methane oxidation. Applied Catalysis B: Environmental, 2020, 269, 118757.	20.2	85
6	Tuning Pt-skinned PtAg nanotubes in nanoscales to efficiently modify electronic structure for boosting performance of methanol electrooxidation. Applied Catalysis B: Environmental, 2020, 265, 118606.	20.2	83
7	Zinc niobate materials: crystal structures, energy-storage capabilities and working mechanisms. Journal of Materials Chemistry A, 2019, 7, 25537-25547.	10.3	63
8	Theoretical insight into the degradation of p-nitrophenol by OH radicals synergized with other active oxidants in aqueous solution. Journal of Hazardous Materials, 2020, 389, 121901.	12.4	62
9	Highly Active Gas Phase Organometallic Catalysis Supported Within Metal-Organic Framework Pores. Journal of the American Chemical Society, 2020, 142, 13533-13543.	13.7	43
10	Catalytic mechanism and pathways of 1, 2-dichloropropane oxidation over LaMnO ₃ perovskite: An experimental and DFT study. Journal of Hazardous Materials, 2021, 402, 123473.	12.4	42
11	Highly wrinkled palladium nanosheets as advanced electrocatalysts for the oxygen reduction reaction in acidic medium. Chemical Engineering Journal, 2022, 431, 133237.	12.7	33
12	The roles of HO•, ClO• and BrO• radicals in caffeine degradation: A theoretical study. Science of the Total Environment, 2021, 768, 144733.	8.0	31
13	A New Sodium Calcium Cyclotetranadate Framework: "Zero-strain" during Large-Capacity Lithium Intercalation. Advanced Functional Materials, 2022, 32, 2105026.	14.9	30
14	Spatially Confined "Edge-to-Edge" Strategy for Achieving Compact Na ⁺ /K ⁺ Storage: Constructing Hetero-Ni ₃ S ₂ in Densified Carbons. Advanced Functional Materials, 2022, 32, .	14.9	23
15	Synthesis of a zinc ferrite effectively encapsulated by reduced graphene oxide composite anode material for high-rate lithium ion storage. Journal of Colloid and Interface Science, 2020, 579, 723-732.	9.4	21
16	Porous carbon matrix-encapsulated MnO in situ derived from metal-organic frameworks as advanced anode materials for Li-ion capacitors. Science China Materials, 2022, 65, 59-68.	6.3	21
17	Theoretical investigation on the contribution of HO•, SO ₄ ⁻ and CO ₃ ⁻ radicals to the degradation of phenacetin in water: Mechanisms, kinetics, and toxicity evaluation. Ecotoxicology and Environmental Safety, 2020, 204, 110977.	6.0	18
18	Acetaminophen degradation by hydroxyl and organic radicals in the peracetic acid-based advanced oxidation processes: Theoretical calculation and toxicity assessment. Journal of Hazardous Materials, 2021, 416, 126250.	12.4	17

#	ARTICLE	IF	CITATIONS
19	Computational Study on the Mechanisms and Rate Constants of the Cl-Initiated Oxidation of Methyl Vinyl Ether in the Atmosphere. <i>Journal of Physical Chemistry A</i> , 2015, 119, 719-727.	2.5	13
20	Computational study on the mechanism and kinetics of Cl-initiated oxidation of vinyl acetate. <i>Atmospheric Environment</i> , 2014, 94, 63-73.	4.1	11
21	Computational study on the mechanism and kinetics of NO ₃ -initiated atmosphere oxidation of vinyl acetate. <i>Computational and Theoretical Chemistry</i> , 2018, 1144, 18-25.	2.5	11
22	Mechanistic and kinetic study of the gas-phase reaction of vinyl acetate with ozone. <i>Atmospheric Environment</i> , 2012, 49, 197-205.	4.1	10
23	Reactivity of aromatic contaminants towards nitrate radical in tropospheric gas and aqueous phase. <i>Journal of Hazardous Materials</i> , 2021, 401, 123396.	12.4	9
24	Facile Fabrication of Highly Hydrophobic Onion-like Candle Soot-Coated Mesh for Durable Oil/Water Separation. <i>Nanomaterials</i> , 2022, 12, 761.	4.1	9
25	Computational study on the mechanisms and rate constants of the OH-initiated oxidation of ethyl vinyl ether in atmosphere. <i>Chemosphere</i> , 2014, 111, 61-69.	8.2	8
26	Computational study on the mechanism and kinetics of Cl-initiated oxidation of ethyl acrylate. <i>Structural Chemistry</i> , 2017, 28, 1831-1842.	2.0	7
27	Hollow La _{0.5} Sr _{0.5} MnO ₃ nanospheres as an electrocatalyst for the oxygen reduction reaction in alkaline media. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 12514-12524.	7.1	7
28	Mechanistic and kinetic investigation on OH-initiated oxidation of tetrabromobisphenol A. <i>Chemosphere</i> , 2016, 153, 262-269.	8.2	6
29	Citrate-mediated synthesis of highly crystalline transition metal hexacyanoferrates and their Na ion storage properties. <i>Applied Surface Science</i> , 2020, 531, 147336.	6.1	5
30	Simulation degradation of bromophenolic compounds in chlorine-based advanced oxidation processes: Mechanism, microscopic and apparent kinetics, and toxicity assessment. <i>Chemosphere</i> , 2022, 291, 133034.	8.2	4
31	Theoretical study on the nitrate radical oxidation of methyl vinyl ether. <i>Computational and Theoretical Chemistry</i> , 2015, 1072, 72-78.	2.5	2
32	Quantum chemical study on isomerization and transformation of hexabromocyclododecanes. <i>Structural Chemistry</i> , 2019, 30, 899-910.	2.0	2
33	Quantum chemical study on \hat{A} -Cl-initiated degradation of ethyl vinyl ether in atmosphere. <i>Molecular Physics</i> , 2020, 118, e1676475.	1.7	1