

# Haijie Cao

## List of Publications by Year in descending order

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33  
papers

1,675  
citations

471509

17  
h-index

395702

33  
g-index

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all docs

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docs citations

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times ranked

1951  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Porous carbon matrix-encapsulated MnO in situ derived from metal-organic frameworks as advanced anode materials for Li-ion capacitors. <i>Science China Materials</i> , 2022, 65, 59-68.  | 6.3  | 21        |
| 2  | A New Sodium Calcium Cyclotetranadate Framework: "Zero-Strain" during Large-Capacity Lithium Intercalation. <i>Advanced Functional Materials</i> , 2022, 32, 2105026.   | 14.9 | 30        |
| 3  | Highly wrinkled palladium nanosheets as advanced electrocatalysts for the oxygen reduction reaction in acidic medium. <i>Chemical Engineering Journal</i> , 2022, 431, 133237.  | 12.7 | 33        |
| 4  | 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         |
| 5  | 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         |
| 6  | Spatially Confined "Edge-to-Edge" Strategy for Achieving Compact Na <sup>+</sup> /K <sup>+</sup> Storage: Constructing Hetero-Ni <sub>3</sub> S <sub>2</sub> in Densified Carbons. <i>Advanced Functional Materials</i> , 2022, 32, .   | 14.9 | 23        |
| 7  | 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         |
| 8  | Catalytic mechanism and pathways of 1, 2-dichloropropane oxidation over LaMnO <sub>3</sub> perovskite: An experimental and DFT study. <i>Journal of Hazardous Materials</i> , 2021, 402, 123473.  | 12.4 | 42        |
| 9  | Synthesis of mesoporous nickel-cobalt-manganese sulfides as electroactive materials for hybrid supercapacitors. <i>Chemical Engineering Journal</i> , 2021, 405, 126928.  | 12.7 | 99        |
| 10 | The roles of HO•, ClO• and BrO• radicals in caffeine degradation: A theoretical study. <i>Science of the Total Environment</i> , 2021, 768, 144733.   | 8.0  | 31        |
| 11 | Acetaminophen degradation by hydroxyl and organic radicals in the peracetic acid-based advanced oxidation processes: Theoretical calculation and toxicity assessment. <i>Journal of Hazardous Materials</i> , 2021, 416, 126250.  | 12.4 | 17        |
| 12 | Quantum chemical study on •Cl-initiated degradation of ethyl vinyl ether in atmosphere. <i>Molecular Physics</i> , 2020, 118, e1676475.   | 1.7  | 1         |
| 13 | Tuning Pt-skinned PtAg nanotubes in nanoscales to efficiently modify electronic structure for boosting performance of methanol electrooxidation. <i>Applied Catalysis B: Environmental</i> , 2020, 265, 118606.   | 20.2 | 83        |
| 14 | Theoretical insight into the degradation of p-nitrophenol by OH radicals synergized with other active oxidants in aqueous solution. <i>Journal of Hazardous Materials</i> , 2020, 389, 121901.  | 12.4 | 62        |
| 15 | Theoretical investigation on the contribution of HO•, SO <sub>4</sub> <sup>-</sup> and CO <sub>3</sub> <sup>-</sup> radicals to the degradation of phenacetin in water: Mechanisms, kinetics, and toxicity evaluation. <i>Ecotoxicology and Environmental Safety</i> , 2020, 204, 110977. | 6.0  | 18        |
| 16 | Highly Active Gas Phase Organometallic Catalysis Supported Within Metal-Organic Framework Pores. <i>Journal of the American Chemical Society</i> , 2020, 142, 13533-13543.  | 18.7 | 43        |
| 17 | Synthesis of a zinc ferrite effectively encapsulated by reduced graphene oxide composite anode material for high-rate lithium ion storage. <i>Journal of Colloid and Interface Science</i> , 2020, 579, 723-732.  | 9.4  | 21        |
| 18 | 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         |

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|----|---|------|-----------|
| 19 | The role of oxygen vacancies of ABO <sub>3</sub> perovskite oxides in the oxygen reduction reaction. <i>Energy and Environmental Science</i> , 2020, 13, 1408-1428.   | 30.8 | 477       |
| 20 | N-doping activated defective Co <sub>3</sub> O <sub>4</sub> as an efficient catalyst for low-temperature methane oxidation. <i>Applied Catalysis B: Environmental</i> , 2020, 269, 118757.                                  | 20.2 | 85        |
| 21 | Hollow La <sub>0.5</sub> Sr <sub>0.5</sub> MnO <sub>3</sub> 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         |
| 22 | Synthesis of amorphous nickel-cobalt-manganese hydroxides for supercapacitor-battery hybrid energy storage system. <i>Energy Storage Materials</i> , 2019, 17, 194-203.   | 18.0 | 236       |
| 23 | Quantum chemical study on isomerization and transformation of hexabromocyclododecanes. <i>Structural Chemistry</i> , 2019, 30, 899-910.   | 2.0  | 2         |
| 24 | Sea-urchin-like nickel-cobalt phosphide/phosphate composites as advanced battery materials for hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6241-6249.  | 10.3 | 186       |
| 25 | Zinc niobate materials: crystal structures, energy-storage capabilities and working mechanisms. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25537-25547.   | 10.3 | 63        |
| 26 | Computational study on the mechanism and kinetics of NO <sub>3</sub> -initiated atmosphere oxidation of vinyl acetate. <i>Computational and Theoretical Chemistry</i> , 2018, 1144, 18-25.                                  | 2.5  | 11        |
| 27 | 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         |
| 28 | Mechanistic and kinetic investigation on OH-initiated oxidation of tetrabromobisphenol A. <i>Chemosphere</i> , 2016, 153, 262-269.  | 8.2  | 6         |
| 29 | Theoretical study on the nitrate radical oxidation of methyl vinyl ether. <i>Computational and Theoretical Chemistry</i> , 2015, 1072, 72-78.   | 2.5  | 2         |
| 30 | 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        |
| 31 | 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         |
| 32 | 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        |
| 33 | 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        |