

Paper Performance

2024 - MXene-MOF architectural hybrid-supported nickel single-atom catalysts for hydrogen evolution reactions - [JOURNAL OF MATERIALS CHEMISTRY A]

2024 - Bio-quantum dots for electrochemical sensing of cardiac biomarkers of acute myocardial infarction - [JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY]

2024 - Hybridized bimetallic Ni-Fe and Ni-Co spinels infused N-doped porous carbon as bifunctional electrocatalysts for efficient overall water splitting - [International Journal of Hydrogen Energy]

2024 - Experimental insights and DFT analysis of metal-free DNA nanocatalyst with enhanced hydrogen evolution via phosphate-mediated proton acceptance - [INTERNATIONAL JOURNAL OF HYDROGEN ENERGY]

2024 - An Amiable Design of Cobalt Single Atoms as the Active Sites for Oxygen Evolution Reaction in Desalinated Seawater - [SMALL]

2024 - Single-atom catalysts for biosensing: Progress in theoretical and mechanistic understanding - [COORDINATION CHEMISTRY REVIEWS]

2024 - Fabrication of label-free immunoprobe for monkeypox A29 detection using one-step electrodeposited molybdenum oxide-graphene quantum rods - [JOURNAL OF COLLOID AND INTERFACE SCIENCE]

2024 - Synergistic sulfur-doped tri-metal phosphide electrocatalyst for efficient hydrazine oxidation in water electrolysis: Toward high-performance hydrogen fuel generation - [JOURNAL OF ALLOYS AND COMPOUNDS]

2024 - Recent Developments in Copper-Based Catalysts for Enhanced Electrochemical CO₂ Reduction - [ADVANCED SUSTAINABLE SYSTEMS]

2024 - Functionalized Carbon Quantum Dots Derived from *Zelkova serrata* Plant Leaves for the Detection of Normetanephrine in Geriatric Plasma Samples and ROS-Induced Antibacterial Applications Using a Plausible Mechanistic Approach - [BIOCHIP JOURNAL]

2023 - The role of metal transporters in phytoremediation: A closer look at *Arabidopsis* - [CHEMOSPHERE]

2023 - A highly stable mesoporous spinel ferrite ($\text{Co}_x\text{Fe}_{3-x}\text{O}_4$) derived from CoFe-MOF for efficient adsorption of ultratrace As(III) ions from aqueous solution - [JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING]

2023 - Gel Polymer Electrolytes: Advancing Solid-State Batteries for High-Performance Applications - [GELS]

2023 - Experimental and simulation studies of bioinspired Au-enhanced copper single atom catalysts towards real-time expeditious dopamine sensing on human neuronal cell - [CHEMICAL ENGINEERING JOURNAL]

2023 - Metal-organic and porous organic framework in electrocatalytic water splitting - [JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY]

2023 - Drug Delivery Application of Functional Nanomaterials Synthesized Using Natural Sources - [JOURNAL OF FUNCTIONAL BIOMATERIALS]

2023 - Systematic review on fate and behavior of microplastics towards the environment - [TRAC-TRENDS IN ANALYTICAL CHEMISTRY]

2023 - Fluorescent-Based Neurotransmitter Sensors: Present and Future Perspectives - [BIOSENSORS-BASEL]

2023 - Fluorescent gold clusters for specific detection of SARS-CoV-2 nucleoprotein via fluorescence and electrochemical method - [APPLIED SURFACE SCIENCE]

2023 - EGF-expressed human mesenchymal stem cells inhibit collagenase 1 expression in keratinocytes - [CELLULAR SIGNALLING]

2022 - Surface-constructing of visible-light $\text{Bi}_2\text{WO}_6/\text{CeO}_2$ nanophotocatalyst grafted PVDF membrane for degradation of tetracycline and humic acid - [JOURNAL OF HAZARDOUS MATERIALS]

2022 - Zn-MOF decorated bio activated carbon for photocatalytic degradation, oxygen evolution and reduction catalysis - [JOURNAL OF HAZARDOUS MATERIALS]

2022 - Green synthesized carbon quantum dots from maple tree leaves for biosensing of Cesium and electrocatalytic oxidation of glycerol - [CHEMOSPHERE]

2022 - Removal of hexavalent chromium by biochar derived from *Azadirachta indica* leaves: Batch and column studies - [CHEMOSPHERE]

2022 - TriMOF synergized on the surface of activated carbon produced from pineapple leaves for the environmental pollutant reduction and oxygen evolution process - [CHEMOSPHERE]

2022 - Tuning the interfacial electronic transitions of bi-dimensional nanocomposites (pGO/ZnO) towards photocatalytic degradation and energy application - [ENVIRONMENTAL RESEARCH]

2022 - Bifunctional electrocatalysts for water splitting from a bimetallic (V doped-NixFey) Metal/Organic framework MOF@Graphene oxide composite - [International Journal of Hydrogen Energy]

2022 - Heterostructure Co₃O₄@NiO as bifunctional electrocatalyst for highly efficient urea oxidation and hydrogen evolution reaction - [Materials Letters]

2022 - Remediation of microplastics using bionanomaterials: A review - [Environmental Research]

2022 - Graphitic carbon-encapsulated V₂O₅ nanocomposites as a superb photocatalyst for crystal violet degradation - [Environmental Research]

2022 - Activated carbon derived from sucrose and melamine as low-cost adsorbent with fast adsorption rate for removal of methylene blue in wastewaters - [Journal of Water Process Engineering]

2022 - Electrocatalytic studies of siloxene sheets encrusted with cobalt chalcogenides (S, Se) for water splitting - [International Journal of Hydrogen Energy]

2022 - Cerium-iron phosphate nano flower bifunctional electrocatalyst for efficient electrochemical detection and catalytic reduction of hazardous 4-nitrophenol - [JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING]