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Qualifications

PhD, Hybrid Metal Oxide Nanoarrays: Fabrication, Properties and Energy Conversion Applications, Chemistry
Department of King Fahd University of Petroleum and Minerals
Jan 2014 → Aug 2018
Award Date: 17 May 2018

Employment

Assistant Professor

CBI Green Chemicals and Energy Centre
China Beacons Institute
1 Feb 2024 → present

Advanced Energy and Environmental Materials & Technologies Research Group

27 May 2024 → present

Research outputs

Nanomaterial-based probes for iodide sensing: synthesis strategies, applications, challenges, and solutions

Mansha, M., Abbas, N., Altaf, F., Khan, S. A., Khan, I. & Ali, S., 4 Mar 2024, In: Journal of Materials Chemistry C. 12, 14, p. 4919-4947 29 p.

Shape-Controlled First-Row Transition Metal Vanadates for Electrochemical and Photoelectrochemical Water Splitting
Khan, I., Gu, Y. & Wooh, S., Jan 2024, In: Chemical Record. 24, 1, e202300127.

Tailoring performance of hybrid supercapacitors by fluorine-rich block copolymer-derived carbon coated mixed-phase TiO₂ nanoparticles
Khan, I., Shah, S. S., Hendi, A. H., Ashraf, M., Cho, Y., Ali, S. & Wooh, S., 15 Dec 2023, In: Journal of Alloys and Compounds. 968, 172175.

Carbon nitride (C₃N₃) decorated with non-noble metal Ni₂P Co-catalyst based nanocomposites for photocatalytic water splitting
Ashraf, M., Ullah, N., Raziq, F., Khan, I., Alhooshani, K. R., Ganiyu, S. A. & Tahir, M. N., 1 Dec 2023, In: Electrochimica Acta. 470, 143296.

Magnetism-driven iron oxide nanocomposites for energy and environmental solutions: harnessing magnetism
Sarraz, N., Ashraf, M., Ali, S. & Khan, I., Dec 2023, In: Materials Today Sustainability. 24, 100589.

Bandgap Engineering of Melon using Highly Reduced Graphene Oxide for Enhanced Photoelectrochemical Hydrogen Evolution

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Photoreforming of Waste Polymers for Sustainable Hydrogen Fuel and Chemicals Feedstock: Waste to Energy

Ashraf, M., Ullah, N., Khan, I., Tremel, W., Ahmad, S. & Tahir, M. N., 26 Apr 2023, In: Chemical Reviews. 123, 8, p. 4443-4509 67 p.

Pluronic-123 Assisted Synthesis of Cobalt Vanadate Microparticles (μ -CoV MPs) for Durable Electrochemical Oxygen Evolution Reaction in Seawater and Connate Water

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Scavenging of Organic Pollutant and Fuel Generation through Cost-Effective and Abundantly Accessible Rust: A Theoretical Support with DFT Simulations

Khan, N., Gul, T., Khan, I., Alabbad, E. A., Ali, S., Saeed, K. & Khan, I., Jan 2023, In: Materials. 16, 1, 142.

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A sustainable molybdenum oxysulphide-cobalt phosphate photocatalyst for effectual solar-driven water splitting

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Graphene and carbon nanotubes-based polymer nanocomposites

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Magnetic iron oxide nanocomposites: types and biomedical applications

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Sulfur doped ceria-titania (S-CeTiO_{4-x}) nanocomposites for enhanced solar-driven water splitting

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Press/Media

Projects

2024	Lorem ipsum dolor sit amet
2023	Lorem ipsum dolor sit amet
2022	Lorem ipsum dolor sit amet
2021	Lorem ipsum dolor sit amet
2020	Lorem ipsum dolor sit amet
2019	Lorem ipsum dolor sit amet