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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 TiO<sub>2</sub> 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 (C<sub>3</sub>N<sub>3</sub>) decorated with non-noble metal Ni<sub>2</sub>P 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  
Sarfranz, 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

Ashraf, M., Ali, R., Khan, I., Ullah, N., Ahmad, M. S., Kida, T., Wooh, S., Tremel, W., Schwingenschlögl, U. & Tahir, M. N., 23 Nov 2023, In: Advanced Materials. 35, 47, 2301342.

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Photodegradation of orange II dye using p-n junction NiO/TiO<sub>2</sub> composite, and assessment of its biological activities

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Efficient photodegradation of methyl red dye by kaolin clay supported zinc oxide nanoparticles with their antibacterial and antioxidant activities

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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 ( $\mu$ -CoV MPs) for Durable Electrochemical Oxygen Evolution Reaction in Seawater and Connate Water

Khan, I., Mar 2023, In: Catalysts. 13, 3, 636.

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

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Nano/micro-structural engineering of Nafion membranes for advanced electrochemical applications

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

Iqbal, N., Khan, I., Ali, A. & Qurashi, A., Feb 2022, In: Journal of Advanced Research. 36, p. 15-26 12 p.

Graphene and carbon nanotubes-based polymer nanocomposites

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Magnetic iron oxide nanocomposites: types and biomedical applications

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Molybdenum impregnated g-C<sub>3</sub>N<sub>4</sub> nanotubes as potentially active photocatalyst for renewable energy applications

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Khan, N., Khan, I., Gul, T., Khan, I., Ali, S. & Saeed, K., 13 Sept 2021, Research Square Platform LLC.

Activation of Ni<sub>2</sub>V<sub>2</sub>O<sub>7</sub> to nonstoichiometric NiV<sub>3</sub>O<sub>8</sub> for solar-driven photoelectrochemical water oxidation

Khan, A. Z., Khan, I., Sufyan, A., Anjum, D. & Qurashi, A., Aug 2021, In: Journal of Environmental Chemical Engineering. 9, 4, 105526.

Sulfone-containing Conjugated Polyimide 2D Nanosheets for Efficient Water Oxidation

Khan, M. Y., Khan, I., Zeama, M. & Khan, A., 19 Jul 2021, In: Chemistry - An Asian Journal. 16, 14, p. 1979-1987 9 p.

A Bifunctional 2D Interlayered β-Cu<sub>2</sub>V<sub>2</sub>O<sub>7</sub>/Zn<sub>2</sub>V<sub>2</sub>O<sub>6</sub> (CZVO) Heterojunction for Solar-Driven Nonsacrificial Dye Degradation and Water Oxidation

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Lange, M. A., Khan, I., Opitz, P., Hartmann, J., Ashraf, M., Qurashi, A., Prädell, L., Panthöfer, M., Cossmer, A., Pfeifer, J., Simon, F., von der Au, M., Meermann, B., Mondeshki, M., Tahir, M. N. & Tremel, W., 20 May 2021, In: Advanced Materials. 33, 20, 2007434.

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Visible Light-Driven Photoelectrocatalytic Water Splitting Using Z-Scheme Ag-Decorated MoS<sub>2</sub>/RGO/NiWO<sub>4</sub> Heterostructure

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Reactive oxygen species: New insights into photocatalytic pollutant degradation over g-C<sub>3</sub>N<sub>4</sub>/ZnSe nanocomposite  
Ehsan, M. F., Shafiq, M., Hamid, S., Shafiee, A., Usman, M., Khan, I., Ashiq, M. N. & Arfan, M., 1 Dec 2020, In: Applied Surface Science. 532, 147418.

CoFe<sub>2</sub>O<sub>4</sub> decorated g-C<sub>3</sub>N<sub>4</sub> nanosheets: New insights into superoxide anion mediated photomineralization of methylene blue

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Enhancement of photocatalytic potential and recoverability of Fe<sub>3</sub>O<sub>4</sub> nanoparticles by decorating over monoclinic zirconia  
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### Polymer Blends

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**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