

Patent:

1. Metal nanoparticles doped hollow carbon nanobubbles and preparation method thereof. (201911017622)
2. A hydrogen-annealed bimetallic oxide and implementations thereof. (201911031662)
3. Photocatalytic nanocomposite and applications thereof. (20191100878)

Research Article:

1. **D. Laishram**, K.P. Shejale, R. KrishnaPriya, R.K. Sharma, Nitrogen-Enriched Carbon Nanobubbles and Nanospheres for Applications in Energy Harvesting, Storage, and CO₂ Sequestration, *ACS Applied Nano Materials*, 2020, 3, 3706-3716.
2. **D. Laishram**, K.P. Shejale, R. Gupta, R.K. Sharma, Heterostructured HfO₂/TiO₂ Spherical Nanoparticles for Visible Photocatalytic Water Remediation, *Materials Letters*, 2018, 231, 225-228.
3. **D. Laishram**, K.P. Shejale, R. Gupta, R.K. Sharma, Solution Processed Hafnia Nanoaggregates: Influence of Surface Oxygen on Catalytic Soot Oxidation, *ACS Sustainable Chemistry & Engineering*, 2018, 6, 11286-11294.
4. **D. Laishram**, K.P. Shejale, R. Gupta, R.K. Sharma, HfO₂ Nanodots Incorporated in TiO₂ and its Hydrogenation for High Performance Dye Sensitized Solar Cells, *RSC Advances*, 2016, 6, 78768-78773.
5. K.P. Shejale, **D. Laishram**, R. Gupta, R.K. Sharma, Engineered ZnO-TiO₂ Nanospheres for High Performing Membrane Assimilated Photocatalytic Water Remediation and Energy Harvesting, *ChemistrySelect*, 2018, 3, 7291-7301.
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7. K.P. Shejale, **D. Laishram**, R. Gupta, R.K. Sharma, Zinc Oxide-Titania Heterojunction-based Solid Nanospheres as Photoanodes for Electron-Trapping in Dye-Sensitized Solar Cells, *Energy Technology*, 2017, 5, 489-494.
8. K.P. Shejale, **D. Laishram**, R. Gupta, R.K. Sharma, **Inside Cover:** Zinc Oxide-Titania Heterojunction-based Solid Nanospheres as Photoanodes for Electron-Trapping in Dye-Sensitized Solar Cells, *Energy Technology*, 2017, 5, 355-355.
9. K.P. Shejale, **D. Laishram**, M.S. Roy, M. Kumar, R.K. Sharma, On the Study of Phase and Dimensionally Controlled Titania Nanostructures Synthesis at Sub-Zero Temperatures, *Materials & Design*, 2016, 92, 535-540.
10. K.P. Shejale, **D. Laishram**, R.K. Sharma, High-performance Dye-Sensitized Solar Cell Using Dimensionally Controlled Titania Synthesized at Sub-Zero Temperatures, *RSC Advances*, 2016, 6, 23459-23466.

Book Chapters:

1. **Devika Laishram**, Divya Kumar, Unnati Gupta, Krishnapriya R and Rakesh K Sharma, "State of the Art in the Characterization of Nano- and Atomic-Scale Catalysts", edited by P. Sudarsanam, and L. Singh, ACS (2020).
2. Krishnapriya R, **Devika Laishram**, and Rakesh K Sharma, "Multifunctional materials for clean energy conversion", edited by P. Costa, C. M. Costa, S. L. - Mendez, Elsevier (2020).
3. Krishnapriya R, Unnati Gupta, Divya Kumar, **Devika Laishram**, and Rakesh K Sharma, "Recent Progress in Synthesis of Nano- and Atomic-Sized Catalysts", edited by P. Sudarsanam, and L. Singh, ACS (2020).
4. R. Krishnapriya, **Devika Laishram**, Bhagirath Saini and Rakesh K. Sharma, "Electrospun Cobalt- based Composites as Anodes for Lithium-Ion Batteries." Springer Nature International. (In press)

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