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## *List of Publications*

1. **Taranga Dehury**, Sandeep Kumar and **Chandana Rath**, Structural Transformation and Bandgap Engineering by Doping Pr in HfO<sub>2</sub> Nanoparticles, *Materials Letters* (2021), Vol. 302, 130413. <https://doi.org/10.1016/j.matlet.2021.130413>.
2. **Taranga Dehury**, **Chandana Rath** and Suranjan Panigrahi, Green Synthesis and Sensing Assessment of HfO<sub>2</sub> Nanoparticles for Detecting Liquid NH<sub>3</sub> Using Electrochemical Impedance Spectroscopy, *IEEE Sensors Letters* (2024), Vol. 8, No. 3, 5501304. <https://doi.org/10.1109/LSENS.2023.3315255>.
3. **Taranga Dehury**, **Chandana Rath** and Suranjan Panigrahi, Ammonia Sensing Behavior of Green-Synthesized ZnO Nanoparticles Using Optical Density as Sensing Parameter, *IEEE Sensors Journal* (2024), Vol. 24, No. 8, 13104-13112. <https://doi.org/10.1109/JSEN.2023.3318517>.
4. **Taranga Dehury**, Sandeep Kumar, Akhoury Sudhir Kumar Sinha, Mukul Gupta and **Chandana Rath**, Thickness Dependent Phase Transformation and Resistive Switching Performance of HfO<sub>2</sub> Thin Films, *Materials Chemistry and Physics* (2024), Vol. 315, 129035. <https://doi.org/10.1016/j.matchemphys.2024.129035>.
5. **Taranga Dehury**, Sandeep Kumar, Sabine Pütter, Suman Roy, Satyaprakash Sahoo and **Chandana Rath**, Volatile Resistive Switching Characteristics of Molecular Beam Epitaxy Grown HfO<sub>2</sub> Thin Films (*Under Review in Applied Surface Science*)
6. Sandeep Kumar, **Taranga Dehury** and **Chandana Rath**, Stabilization of Cubic Phase at Room Temperature and Photoluminescence Properties of Dy and Sm Co-Doped HfO<sub>2</sub> Nanoparticles, *ECS Journal of Solid State Science and Technology* (2021), Vol. 10, 081009. <https://doi.org/10.1149/2162-8777/ac1c54>.
7. Sanjna Rajput, Manish Yadav, **Taranga Dehury**, Akhilesh Kumar Yadav, Pratap Kumar Sahoo and **Chandana Rath**, Coexistence of Tetragonal and Cubic Phase Induced Complex Magnetic Behaviour in CoMn<sub>2</sub>O<sub>4</sub> Nanoparticles, *Nanotechnology* (2023), Vol. 34, 425702. <https://doi.org/10.1088/1361-6528/ace3cb>.

### **BOOK CHAPTER**

1. **Taranga Dehury** and **Chandana Rath**, Green Synthesized Metal Oxide Nanostructures for Sensing Applications, Chapter- 21, Book- *Green Nanotechnology: Synthesis and Applications*, Springer Nature (ISBN 978-981-99-7942-4).

