

## *List of Publications*

- 1) **Sandeep Kumar**, S. B. Rai, and C. Rath, Multifunctional role of dysprosium in HfO<sub>2</sub>: stabilization of the high temperature cubic phase, and magnetic and photoluminescence properties., *Physical Chemistry Chemical Physics*, 19(29), 2017, 18957-18967.
- 2) **Sandeep Kumar**, S. B. Rai, and C. Rath, Monoclinic to cubic phase transformation and photoluminescence properties in Hf<sub>1-x</sub>Sm<sub>x</sub>O<sub>2</sub> (x=0-0.12) nanoparticles., *Journal of Applied Physics*, 123(5), 2018, 055108.
- 3) **Sandeep Kumar**, S. B. Rai, and C. Rath, Latent Fingerprint Imaging Using Dy and Sm Codoped HfO<sub>2</sub> Nanophosphors: Structure and Luminescence Properties., *Particle & Particle Systems Characterization*, 2019, 1900048.
- 4) **Sandeep Kumar** and C. Rath, Oxygen vacancy mediated stabilization of cubic phase at room temperature and resistive switching effect in Sm and Dy doped HfO<sub>2</sub> thin film, (Under Review), 2019.
- 5) **Sandeep Kumar** and C. Rath., Structural and Photoluminescence Properties of Sm and Dy Codoped HfO<sub>2</sub> Nanoparticles, (Under Review), 2019.
- 6) Priyanka Tiwari, **Sandeep Kumar** and C. Rath, Structural and magnetic phase transitions along with optical properties in GdMn<sub>1-x</sub>Fe<sub>x</sub>O<sub>3</sub> Perovskite, *Journal of Applied Physics*, 126(4), 2019, 045102,.