

## List Of Publications

1. **Krishna Gopal Nigam**, Abhijeet Kumar Singh, Soham Mukherjee, and Preetam Singh, Synthesis and Electrochemical Performances of Fluffy Carbonized Hexagonal  $\text{KCoPO}_4$  as Pseudocapacitive Electrode for High performing Hybrid Supercapacitor Applications **Chemistry Select 2024**
2. **Krishna Gopal Nigam**, Abhijeet Kumar Singh, Soham Mukherjee, and Preetam Singh, Effect of Ni incorporation in  $\text{KCoPO}_4$  on the charge storage capacity of  $\text{KCo}_{1-x}\text{Ni}_x\text{PO}_4$  ( $0 \leq x \leq 0.5$ ) Electrodes for the Fabrication of High-Performing Hybrid Supercapacitors- **Energy Storage, 2024**
3. Rakesh Mondal, **Krishna Gopal Nigam**, Neeraj Kumar Mishra, Asha Gupta, Preetam Singh, Intercalative pseudocapacitive anhydrous  $\text{NiC}_2\text{O}_4$  quantum dot electrode for the fabrication of supercapacitor using aqueous KOH and neutral  $\text{Na}_2\text{SO}_4$  electrolyte, **2023**
4. Abhay Narayan Singh, **Krishna Gopal Nigam**, Rakesh Mondal, Vishal Kushwaha, Asha Gupta, Chandna Rath, Preetam Singh, Effect of strontium doping on the electrochemical pseudocapacitance of  $\text{Y}_{1-x}\text{Sr}_x\text{MnO}_{3-\delta}$  perovskites, Physical Chemistry Chemical Physics 25 (1), 326-340, **2022**
5. Vaishali Soni, Shraddha Jaiswal, **Krishna Gopal Nigam**, Preetam Singh, Asha Gupta, Nickel Doped Lithium-Vacant Layered  $\text{Li}_y\text{Cr}_{1-x}\text{Ni}_x\text{O}_2$ : A Potentially Active Electrocatalyst for Oxygen Evolution Reaction, *RSC: JMCA*, **2024**
6. Abhijeet Kumar Singh, Soham Mukherjee, **Krishna Gopal Nigam**, Asha Gupta, Preetam Singh, Orthorhombic  $\text{Cr}_{1-x}\text{Fe}_x\text{PO}_4$  ( $0 \leq x \leq 0.2$ ): An Efficient Oxygen Evolution Reaction Electrocatalyst in Alkaline Medium"- under review, **2024**

## **International/National Conferences Attended**

1. ChemCatCon 2.0 conference on Heterogeneous catalysis: Mechanistic Investigation on Surface, organised by heterogeneous Catalysis Group, IIT Gandhinagar, held on 14<sup>th</sup> and 15<sup>th</sup> may 2022.
2. The International conference on Beyond Fossil Fuels: The Future of Alternative Energy Technologies [B:FAT 2020] by IIT (BHU) Varanasi, India held on 23<sup>th</sup> and 25<sup>th</sup> July 2022.
3. International conference on Global Trends in Traditional to Space Ceramics(GT-TSC'22) organised by Indian Ceramic Society and IIT (BHU) Varanasi, India held on 8<sup>th</sup> and 9<sup>th</sup> December 2022.