#### Some Key Research Publications of the faculty of the department:

## Dr. Pravin Kumar

[1]. Influence of  $La^{3+}$  doping on structural and optical properties of SrCeO<sub>3</sub> perovskite, Dharmendra Yadav, <u>Pravin</u> <u>Kumar</u>, Alok Kumar Tripathi, Ram SagarYadav, GurudeoNirala, SushmaYadav, Ashish Kumar Yadav and Sandip Yadav, Journal of **Physica Scripta**, 99, 115935(2024). **Impact Factor: 2.6** 

[2]. Influence of lanthanum (La<sup>3+</sup>) doping on structural and electrical/electrochemical properties of double perovskite Sr<sub>2</sub>CoMoO<sub>6</sub> as anode materials for IT-SOFCs, <u>Pravin Kumar</u>, Paramananda Jena, P. K. Patro, R. K. Lenka, A.S.K. Sinha, Prabhakar Singh, Rajendra Kumar Singh, ACS Applied Materials & Interfaces, 11, 27, 24659-24667 (2019). Impact Factor: 8.5

- [3]. Electrical conductivity of NiMo-based double perovskites under SOFC anodic conditions, <u>Pravin Kumar</u>, Sabrina Presto, Salil Varma, Massimo Viviani, Prabhakar Singh, International Journal of Hydrogen Energy, 43, 4528-4533 (2018). Impact Factor: 8.1
- [4]. Effect of samarium (Sm<sup>3+</sup>) doping on structure and electrical conductivity of the double perovskite Sr<sub>2</sub>NiMoO<sub>6</sub> as anode system for SOFC, <u>Pravin Kumar</u>, Sabrina Presto, A.S.K. Sinha, Massimo Viviani, Prabhakar Singh, Journal of Alloys and Compounds, 725 1123-1129 (2017). Impact Factor: 5.8

[5]. Structural and electrical characterizations of cerium (Ce<sup>3+</sup>) doped double perovskite system  $Sr_2NiMoO_{6-\delta}$ , <u>Pravin</u> <u>Kumar</u>, Nitish Kumar Singh and Prabhakar Singh, **Applied Physics A: Materials Science and Processing**, 122:828 (2016). Impact Factor: 2.6

[6]. Effect of lanthanum ( $La^{3+}$ ) doping on structural and the electrical properties of double perovskite  $Sr_2NiMoO_6$ , <u>Pravin</u> <u>Kumar</u>, Nitish Kumar Singh, Govind Gupta and Prabhakar Singh, **RSC Advances**, 6, 22094-22102 (2016). Impact Factor: 3.9

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**[8].** Structural and electrical behavior of double peroveskite material  $Sr_2NiMoO_{6-\delta}$ , <u>**Pravin Kumar**</u>, Rajesh Kumar Singh and Prabhakar Singh, **Advanced Science Letters**, 20, 647–649, (2014).

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