

## List of Publications

### **Publications:**

The following paper have been published/ communicated during PhD work.

1. **Upendra Kumar**, Shail Upadhyay, “**Investigation of structural, optical and electrical properties of  $\text{Sr}_2\text{SnO}_4$ ,  $\text{Sr}_{1.99}\text{Eu}_{0.01}\text{SnO}_4$  and  $\text{Sr}_2\text{Sn}_{0.99}\text{Eu}_{0.01}\text{O}_4$  Ruddlesden Popper oxide**”, *Materials Research Express* (Accepted)
2. **Upendra Kumar**, Dharmendra Yadav, Anukul K. Thakur, Kamal K. Srivastav, and Shail Upadhyay. "Investigation on phase formation of  $\text{Sr}_2\text{SnO}_4$  and effect of La-doping on its structural and optical properties." *Journal of Thermal Analysis and Calorimetry*: 1-13.
3. **Upendra Kumar** and Shail Upadhyay. "Studies on dielectric and electrical properties of Ruddlesden-Popper oxide  $\text{Sr}_2\text{SnO}_4$ ." *Materials Letters* 227 (2018): 100-103.
4. **Upendra Kumar**, Md Jawed Ansaree, Atul Kumar Verma, Shail Upadhyay, and Govind Gupta. "Oxygen vacancy induced electrical conduction and room temperature ferromagnetism in system  $\text{BaSn}_{1-x}\text{Ni}_x\text{O}_3$  ( $0 \leq x \leq 0.20$ )." *Materials Research Express* 4, no. 11 (2017): 116304.
5. **Upendra Kumar**, Md. Jawed Ansaree and Shail Upadhyay “**Structural and optical characterizations of  $\text{BaSnO}_3$  nano-powder synthesized by aqueous sol-gel method**”, *Processing and Application of Ceramics* 11[3], 2017, 177-184.
6. Dharmendra Yadav, **Upendra Kumar**, Shail Upadhyay, Study of structural, electrical and photoluminescent properties of  $\text{SrCeO}_3$  and  $\text{Sr}_2\text{CeO}_4$ : a comparative study, *Journal of Advanced Ceramics* (Accepted)
7. Md Jawed Ansaree, **Upendra Kumar**, Shail Upadhyay, “Solid-state synthesis of nano-sized  $\text{Ba}(\text{Ti}_{1-x}\text{Sn}_x)\text{O}_3$  powders and dielectric properties of corresponding ceramics”, *Applied Physics A*, 123 [6], 2017, 432.
8. Md. Jawed Ansaree, **Upendra Kumar**, and Shail Upadhyay. "Structural, dielectric and magnetic properties of particulate composites of relaxor ( $\text{BaTi}_{0.85}\text{Sn}_{0.15}\text{O}_3$ ) and ferrite ( $\text{NiFe}_2\text{O}_4$ ) synthesized by gel-combustion method." *Journal of Electroceramics* 40, no. 3 (2018): 257-269.

9. **Upendra Kumar**, Shail Upadhyay, “**Investigation on properties of nano-sized powder and ceramic of Ruddlesden–Popper oxide  $Ba_2SnO_4$** ” *Journal of Electronic Materials* (Revision Submitted).
10. **Upendra Kumar**, Shail Upadhyay, “Dielectric Modulus and Electrical conductivity spectra of Sr-substituted in Ruddlesden-Popper system  $(Ba_{1-x}Sr_x)_2SnO_4$  with  $0.10 \leq x \leq 0.80$ ”. *Journal of Applied Physics* (Review).
11. **Upendra Kumar**, Shail Upadhyay “**Electrical conductivity and Modulus Spectra of La-doped  $Sr_2SnO_4$** ” *Journal of Physics D: Applied Physics* (To be communicated).
12. **Upendra Kumar**, Shail Upadhyay “**Room Temperature Ferromagnetism and Luminescence properties Infrared region of Nd-doped  $Sr_2SnO_4$** ” *Inorganic Chemistry* (Communicated).
13. **Upendra Kumar**, Shail Upadhyay “**Observation of Green emission in  $Eu^{3+}$  doped at  $Sn^{4+}$  site in  $Sr_2SnO_4$** ” *Journal of Rare Earth* (Communicated).

#### **Conference Presentations:**

1. Participated in International Symposium on “**Materials & Technologies for Energy Conversion and Storage (M-TECS 2018)**” organized by BARC and BRNS and presented a Poster and Oral presentation on titled “**A detailed thermal analysis, structural and electrical properties of La -doped  $Sr_2SnO_4$** ” during 25<sup>th</sup> -29<sup>th</sup> September 2018.
2. Participated in National conference on “**Recent Trends in Condensed Matter Physics and Materials Science (CMPMS-2018)**” organized by Department of Physics, Institute of Science BHU Varanasi India and present a poster on titled “**Effect of Eu-doping at Sr-site and Sn-site of  $Sr_2SnO_4$  layered perovskite**” during 15<sup>th</sup>-16<sup>th</sup> Sept 2018.
3. Participated in National conference on “**Advanced Materials and Nanotechnology (AMN-2018)**” organized by Jaypee Institute of Information Technology (JIIT) Noida, India and delivered a talk on titled “**Structural and magnetic properties of Nd-doped  $Sr_2SnO_4$  layered perovskite**” during 15<sup>th</sup>-17<sup>th</sup> March 2018.
4. Contribution paper is presented in International conference “**5<sup>th</sup> International conference on Nanotechnology, Nanoscience and Advanced materials (ICNNAM)**” organized by ICONTES Kuala Lumpur, Malaysia with paper titled “**Structural and Electrical Characterization of  $SrCeO_3$  and  $Sr_2CeO_4$ : A comparative study**” during 01-02 February 2018.

5. Participated in International conference on “**Solid State Physics Symposium-2017**” organized by BARC Mumbai and present a paper titled “**Structural, microstructural and electrical characterization of BaSnO<sub>3</sub> and Ba<sub>0.90</sub>Y<sub>0.10</sub>SnO<sub>3</sub> synthesized by solution combustion method**” during 26<sup>th</sup> – 30<sup>th</sup> December 2017.
6. Participated in National Conference on National Seminar on Crystallography “**NSC-46**” and present a paper titled “**Correlation between structural and optical properties of Eu-doped Sr<sub>2</sub>SnO<sub>4</sub> phosphor material**” during 9<sup>th</sup>-12<sup>th</sup> July 2017 in organized by School of Materials Science and Technology IIT (BHU) Varanasi.
7. Participated in International conference on Advances in Biological Systems and Materials Science in Nano-World “**ABSMSNW**” and present a paper titled “**Effect of Eu doping on structure and optical properties of Sr<sub>2</sub>SnO<sub>4</sub> phosphor material**” during 19<sup>th</sup>-23<sup>rd</sup> February 2017 organized by Department of Physics, IIT (BHU) Varanasi.
8. Participated in GIAN program on “**Fuel Cell Technology**” organized by IIT Gandhinagar in the collaboration of IIT Kharagpur and MHRD during 5-9 December 2016.
9. Participated in Asian Conference on Solid State Ionics-2016(**ACSSI-2016**) organized by IIT PATNA and present a paper titled “**Synthesis and electrical characterization of Barium orthostannate**” during 27-30 November 2016.
10. Participate in Workshop and Training program on “**Latex and other useful software**” organized by **Institute of Agricultural Science BHU and Department of Statistics Institute of Science Varanasi** during 09-24 November 2016
11. Participate in International school on “**Ion beam in Material Science**” organized by **IUAC New Delhi** during 22-27 September 2016.
12. Participate in International Conference “**Nanotechnology for better living**” organized by **IIT Kanpur and NIT Srinagar** and present a paper titled “**Synthesis and characterization of BaSnO<sub>3</sub> and Ba<sub>0.90</sub>M<sub>0.10</sub>SnO<sub>3</sub> (M: La, Y, Gd)**” during 25-30 May 2016.
13. Participated in 20<sup>th</sup> symposia and workshop on **Thermans-2016** organized by DAE and BRNS during 18-20 January 2016, a present poster titled “**Thermal analysis of the formation of Nanocrystalline BaTiO<sub>3</sub> using Ba(NO<sub>3</sub>)<sub>2</sub> and TiO<sub>2</sub>**”.
14. Participated in 20<sup>th</sup> symposia and workshop on **Thermans-2016** organized by DAE and BRNS during 18-20 January 2016, a present oral presentation titled “**Synthesis and characterization of BaSnO<sub>3</sub> prepared using Sol-Gel Method**” got First Prize in Best Oral Presentation award.

15. Participated in Workshop on Advance Ceramics and Nanotechnology (Theme Electroceramics), 4-5 Dec 2015 Dept. of Ceramic IIT (BHU) Varanasi-221005, presented Poster with titled “**Low-Temperature Synthesis and Characterization of Nickel doped Barium Stannate.**”
16. Participated in Training and Workshop on “**Advanced Microscopy and Imaging Techniques**” jointly organized by DSS Imagetech Pvt. Ltd. and Olympus Medical System India Pvt. Ltd. and photometrics USA along with IIT BHU from 7<sup>th</sup>-8<sup>th</sup> August 2015.
17. Participated in Workshop on “**Characterization and Functionalization of Nanomaterial**” (CFN-2015) organized by Department of Physics Banaras Hindu University Varanasi during March 12-15, 2015.