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## List of Publications

### Publications Relevant to the Thesis

1. **Vaibhav Chauhan**, Prashant Dixit, Praveen C. Pandey, Enhancement in greenish-white photoluminescence of  $\text{Zn}_3(\text{VO}_4)_2$  phosphor by  $\text{Bi}^{3+}$  doping, *Optik*, 238 (2021) 166682.
2. **Vaibhav Chauhan**, Prashant Dixit, Praveen C. Pandey,  $\text{Bi}^{3+}$  assisted luminescence in  $\text{SrMoO}_4:\text{Sm}^{3+}$  red phosphor, *Journal of Rare Earths*, 39 (2021) 1336-1343.
3. **Vaibhav Chauhan**, Prashant Kumar Pandey, Prashant Dixit, Pratik Deshmukh, S. Satapathy, Praveen C. Pandey, Effect of  $\text{Zn}^{2+}$  co-doping on the luminescence of  $\text{Sm}^{3+}$  doped  $\text{SrMoO}_4$  phosphor, *Journal of Luminescence*, 248 (2022) 118994.
4. **Vaibhav Chauhan**, Pratik Deshmukh, S. Satapathy, Praveen C. Pandey, Greenish-yellow emission from rare-earth free  $\text{Li}^+$  doped zinc vanadate phosphor, *Results in physics*, 39 (2022) 105689.
5. **Vaibhav Chauhan**, Prashant Dixit, Prashant Kumar Pandey, Satyam Chaturvedi, Praveen C. Pandey, Energy Transfer Dynamics, Emission Color Tuning, and Fluorescence Thermometry in  $\text{Dy}^{3+}/\text{Eu}^{3+}$  co-doped  $\text{SrMoO}_4$  phosphors, (In communication)

### Other Publications

1. **Vaibhav Chauhan**, Prashant Kumar Pandey, Prashant Dixit, Praveen C. Pandey, Structural and optical study of  $\text{Sm}^{3+}$  doped  $\text{Ca}_3(\text{VO}_4)_2$  phosphors, *Materials Today: Proceedings*, (2022) (article accepted and in press).
2. Prashant Dixit, **Vaibhav Chauhan**, Pawan Kumar, Praveen C. Pandey, Enhanced photoluminescence in  $\text{CaMoO}_4:\text{Eu}^{3+}$  by  $\text{Mn}^{2+}$  co-doping, *Journal of Luminescence*, 223 (2020) 117240.
3. Prashant Dixit, **Vaibhav Chauhan**, SB Rai, Praveen C. Pandey, Realization of neutral white light emission in  $\text{CaMoO}_4: 4\text{Dy}^{3+}$  phosphor via  $\text{Sm}^{3+}$  co-doping, *Journal of Alloys and Compounds*, (2021) 162820.
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5. Prashant Kumar Pandey, **Vaibhav Chauhan**, Prashant Dixit, Praveen C. Pandey, Correlation of enhanced photocurrent with structural and optical properties of Ag-ZnO nanocomposites synthesized by a facile chemical route, *Physica B*, 612 (2021) 412937.
6. Prashant Kumar Pandey, Prashant Dixit, **Vaibhav Chauhan**, Praveen C. Pandey, Study of structural and optical properties of europium ion activated bismuth oxide nanophosphors, *Materials Today: Proceedings*, (2022) (article accepted and in press).
7. Prashant Kumar Pandey, **Vaibhav Chauhan**, Prashant Dixit, Praveen C. Pandey, Role of  $\text{Na}^+$  co-doping in luminescence enhancement of  $\text{Bi}_2\text{O}_3: \text{Sm}^{3+}$  nanophosphors, *Materials Science in Semiconductor Processing*, 150 (2022) 106915.

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11. Pawan Kumar, **Vaibhav Chauhan**, Ranveer Singh, Praveen C. Pandey, Lithium Activated Enhancement in UV-Photo Response of Europium Doped ZnO Thin Film, 291 (2022) 126661.

#### **Conferences/ Workshop/ Symposium**

1. **Vaibhav Chauhan**, Praveen C. Pandey, **International Conference for “Functional Nanomaterials”**, 22-25 Feb 2019, Department of physics, IIT (BHU), Varanasi.
2. **Vaibhav Chauhan**, Praveen C. Pandey, **International Conference on Recent Advances in Material Science**, 15-17 May 2021, Department of physics, HNB Garhwal University, Srinagar Garhwal, Uttarakhand, India.
3. **Vaibhav Chauhan**, Praveen C. Pandey, **International Conference on Advanced Materials for Better Tomorrow**, 13-17 July 2021, IIT (BHU), Varanasi.
4. **Vaibhav Chauhan**, Praveen C. Pandey, **International Conference on Recent Advances in the Functional Materials (RAFM-2022)**, 14-16 March 2022, Dept. of Physics, ARSD college, University of Delhi, Delhi.
5. DST-SERB School from 02-21 Dec 2019, on **“Photonics Phenomena, Materials and Devices”**, sponsored by DST-SERB, New Delhi, and organized by Crystal Growth Centre, Anna University (Chennai).