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List of Publications

Publications Relevant to the Thesis

1. **Prashant Kumar Pandey,** Praveen C. Pandey, "Reddish-orange luminescence enhancement via Li^{+} co-doping in Sm^{3+} doped Bi_2O_3 nano-sheets", *Journal of Luminescence* **242**, 118600 (2022).

2. **Prashant Kumar Pandey**, Vaibhav Chauhan, Prashant Dixit, Praveen C. Pandey, "Role of Na^{+} co-doping in luminescence enhancement of Bi_2O_3: Sm^{3+} nanophosphors", *Materials Science in Semiconductor Processing* **150**, 106915 (2022).

3. **Prashant Kumar Pandey**, Prashant Dixit, Vaibhav Chauhan, Praveen C Pandey, "Luminescence properties and Energy transfer studies in thermally stable Bi_2O_3: Sm^{3+}, Eu^{3+} phosphor" *Journal of Alloys and Compounds* **952**, 169911 (2023).

4. **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**, 412937 (2021).

Other Publications

1. **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* **67**, 637-642 (2022).

2. Vaibhav Chauhan, **Prashant Kumar Pandey**, Prashant Dixit, Pratik Deshmukh, S. Satapathy, Praveen C. Pandey, "Effect of Zn^{2+} co-doping on the luminescence of Sm^{3+} doped $SrMoO_4$ phosphor," *Journal of Luminescence* **248**, 118994 (2022).

3. Vaibhav Chauhan, **Prashant Kumar Pandey**, Prashant Dixit, Praveen C. Pandey, "Structural And Optical Study Of Sm^{3+} Doped $Ca_3(VO_4)_2$ Phosphors", *Materials Today: Proceedings* **67**, 605-608 (2022).

4. Prashant Dixit, **Prashant Kumar Pandey**, Vaibhav Chauhan, Praveen C. Pandey, "Improvement in white light emission of Dy^{3+} doped $CaMoO_4$ via Zn^{2+} co-doping", *Methods and Applications in Fluorescence* **4**, 044003 (2022).

5. Vaibhav Chauhan, Prashant Dixit, **Prashant Kumar Pandey**, Satyam Chaturvedi, S.B. Rai, and Praveen C. Pandey, "Energy Transfer Dynamics, Emission Color Tuning, and Fluorescence Thermometry in Dy^{3+}/Eu^{3+} co-doped $SrMoO_4$ phosphors" (In communication).

6. Prashant Dixit, Vaibhav Chauhan, **Prashant Kumar Pandey** and Praveen C. Pandey, "Developing a narrow band CaMoO 4 :Tb 3+ /Bi 3+ green phosphor for lighting application" (In communication).

Conferences/ Workshop/ Symposium

1. DST-SERB School from 02-21 Dec 2019, on "**Photonics Phenomena, Materials and Devices**", sponsored by DST-SERB, New Delhi and organised by Crystal Growth Centre, Anna University (Chennai).

2. DST-SERB School from 03-07 Dec 2018, on "**Energy efficiency of solar PV system**s", sponsored by DST-SERB, New Delhi and organised by CSIR-NPL (Delhi).

3. **Prashant Kumar Pandey,** Praveen C. Pandey, "**International Conference of International Academy of Physical Sciences (CONIAPS XXVII)**", 26-28 October 2021, Dept. of Physics, BHU, Varanasi.

4. **Prashant Kumar Pandey,** 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. **Prashant Kumar Pandey,** Praveen C. Pandey, "**International Conference of International Academy of Physical Sciences CONIAPS XXVII on FRONTIERS IN PHYSICS**", 26-28 October 2021, Dept. of Physics, University of Kashmir, Srinagar.

6. **Prashant Kumar Pandey,** Praveen C. Pandey, "**International Conference on Science and Engineering of Materials (ICSEM-2021)**", 19-22 July 2022, Dept. of Physics, School of Basic Sciences and Research, Sharda university.