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List of Publications

International Journals:

1. Hysteresis in centrosymmetric CuPbI_3 perovskite halide: apolar dielectric or orientable dielectric?, **Prem C. Bharti**, Pardeep K. Jha, Priyanka A. Jha and Prabhakar Singh, Journal of Physics: Condensed Matter 33 (15), 155703 (2021)
2. Observation of isomorphic phase transition in non-perovskite Green CsSnI_3 , **Prem C. Bharti**, Priyanka A. Jha, Pardeep K. Jha, and Prabhakar Singh, Materialia 27, 2023, 101646
3. Exploring Phase Transition Effects on Current Voltage Hysteresis in novel CuSnI_3 **Prem C. Bharti**, S. Singh, Pardeep K. Jha, Priyanka A. Jha and Prabhakar Singh.(under preparation)
4. Hysteresis and Pyroelectric behaviour at isomorphic transition in Green CsSnI_3 **Prem C. Bharti**, Priyanka A. Jha, Pardeep K. Jha, and Prabhakar Singh. (Communicated in Journal of Physics: Condensed Matter)

Papers Published as Conference Proceedings:

1. Photo-response in CuPbBr_3 , **Prem C. Bharti**, Pardeep K. Jha, Priyanka A. Jha and Prabhakar Singh, Materials Today: Proceedings 28, 182-184(2020).

National/International (Conference/Workshop/Webinar) Presentations:

1. Participated in 2-day short-term course on “**Perovskite solar cells**” Conducted by NCPRE-IIT Bombay during **October 15-16, 2019**.
2. Participated and presented a poster entitled “**Structural, thermodynamic and optical properties of cold-sintered CuPbBr₃ perovskite** ” in 3rd International conference on solar energy photovoltaics organized by KIIT Bhubaneswar during **December 19-21, 2019**.
3. Participated and presented a poster entitled “**Photo-response in CuPbBr₃** ” in International conference on advanced materials and nanotechnology (**AMN-2020**) held at department of physics and materials science & engineering Jaypee Institute of Information Technology, Noida during **February 20-22, 2020**.
4. Participated in national webinar on experimental & computational tools for materials research (**ECTMR-2020**) organized by Central University of Rajasthan during June 01-08, 2020.
5. Participated and presented a poster entitled “**The influence on structural, optical and the**” in International e-conference on advanced functional materials, optoelectronics & Devices Organized by VBS University Juanpur during **June 13-15, 2020**.
6. Participated in One day e-Conference on Perovskite solar cell organized by Translational Perovskite Research Council on **June 30, 2020** .
7. Participated in International virtual conference on Modern Instrumental & characterization techniques in applied sciences organized by Uttarakhand science Education & Research Centre during **July 05-06, 2020**.
8. Participated in e-Workshop on “**Art of writing research paper**” Organized by Research smith during **September 12-14, 2020**.
9. Participated and presented poster entitled “**Comparative study of Physical Properties of Cold-sintered CuPbBr₃ and CuPbI₃ Perovskite for Solar Cell Applications**” in International conformance on energy materials & devices (**ICEMD-2022**) organized by MMV BHU during **January 11-12, 2022**.
10. Participated and presented poster entitled “ **Photoconduction hysteresis control in copper lead iodide (CuPbI₃) perovskite: impact of microstructural optimization** ”

in International Union of materials Research Society (**IUMRS-2022**) organized by IIT
Jodhpur During **December 19-24,2022**.