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## List of publications

1. Development and characterization of  $(1-x)\text{BiYO}_3-x\text{BiMnO}_3$  ceramics for Ferro-photovoltaic applications; **Pragyanand Prajapati**, Akhilesh Kumar Singh. *Ceramics International*. 18 May 2022.
2. Band gap tuning of ferroelectric  $\text{PbTiO}_3$  by Mo doping; **Pragyanand Prajapati**, Akhilesh Kumar *Journal of Materials Science: Materials in Electronics* 33(5); Singh 2022, pp 2550-2565.
3. Size and composition dependent structural investigations on  $\text{Nd}_{1-x}\text{Ba}_x\text{CoO}_3$  ( $x= 0.2, 0.3$  and  $0.4$ ) perovskite cobaltites using X-ray diffraction; Dinesh Kumar, **Pragyanand Prajapati**, Paramananda Jena and Akhilesh Kumar Singh *Materials Today. Proceedings* 26 (2020): 3492-3496.
4. Low optical band gap studies on Mo-modified  $\text{PbTiO}_3$  ceramics; **Pragyanand Prajapati** and Akhilesh Kumar Singh *AIP Conference Proceedings*, vol. 2009, no. 1, p. 020012. AIP Publishing LLC, 2018.
5. Developing a reduction resistant layer with  $\text{SrNi}_{0.8}\text{Mo}_{0.2}\text{O}_{3-x}$  mixed-oxide for  $\text{Sm}_{0.2}\text{Ce}_{0.8}\text{O}_{2-x}$  based Solid Oxide Fuel Cells; Monika Singh, **Pragyanand Prajapati**, Akhilesh Kumar Singh. *AIP conference proceedings* 2115, 030622 (2019).

## List of articles to be published

1. Investigation of  $(\text{Bi}_{1/2}\text{Li}_{1/2})_x\text{Ba}_{(1-x)}\text{TiO}_3$  ( $x = 0.10, 0.12, 0.15, 0.20, 0.25$ ) Solid Solution for Energy Storage Applications; **Pragyanand Prajapati**, Krishna Prajapati, Vishwa Pratap Singh, Akhilesh Kumar Singh.

## List of Conferences/Workshops attended

1. **International Conference on Functional Material and Simulation Techniques (ICFMST-2019)**, 7th to 8th June 2019, Chandigarh University, Chandigarh, Punjab, India (Poster presentation).
2. **63<sup>rd</sup> DAE Solid state physics symposium**, 18<sup>th</sup> -22<sup>th</sup> Dec 2018, Guru Jambheshwar University of Science & Technology, Hisar, Haryana, Punjab (Poster presentation).
3. **National Conference On Advanced Materials And Nanotechnology (AMN-2018)**, Jaypee Institute of Information Technology, Noida UP, India (Poster presentation).
4. **45th National Seminar on Crystallography** under the (aegis of Indian crystallographic association), organized by School of Materials Science and Technology, Indian Institute of Technology (Banaras Hindu University), Varanasi during 9-12 July, 2017 (Volunteer).
5. Short term Course on ‘**Thin Film Growth and: Fundamental and real time growth demonstration**’ during 18-20 dec 2018, National Physics Laboratory, Delhi.
6. One day workshop on “**LaTeX: A software for writing thesis and research papers**” on October 6, 2018 organized by Indian Institute of Technology (BHU), Varanasi, India (IEEE student Branch).
7. One day seminar on “**Avenues in aeronautical R&D for Indian defence**” on 10<sup>th</sup> March 2018 organized by Department of Metallurgy, Indian Institute of Technology (BHU) Varanasi.
8. **Institute day celebration** during April 4-6, 2018 organized by Indian Institute of Technology (BHU) Varanasi (Poster presentation).