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***Dr. Sudipta Pal***  
*Associate Professor*

Date - 15/7/24

### TO WHOM IT MAY CONCERN

This is to certify that Dr. **SUBHRANGSU TARAN**, Assistant/ Associate Professor, Department of **PHYSICS**, Kalyani Mahavidyalaya, is engaged in collaborative research work with me since July 2020. The academic association is continuing till date. Some of the research outputs arising out of such fruitful collaboration has been published in refereed journal(s)/ conference proceedings viz (Stated below), and are available via google scholar. Pubmed link etc.

Signature of the collaborator with date and seal  
Designation

**Dr. SUDIPTA PAL**  
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### Publication details

1. Subhrangsu Taran, Bhaskar Biswas, Sudipta Pal, and H. D. Yang. *Improvement of the biferroic property by Ca doping in bulk perovskite YCrO<sub>3</sub> system*, AIP Conference Proceedings 2220, 110002 (2020) <https://doi.org/10.1063/5.0002211>
2. Bhaskar Biswas, Subhrangsu Taran, and Sudipta Pal. *Investigation of structural and optical properties of polycrystalline GdFe<sub>0.5</sub>Al<sub>0.5</sub>O<sub>3</sub>*, AIP Conference Proceedings 2220, 110004 (2020); doi: <https://doi.org/10.1063/5.0001219>
3. Bhaskar Biswas, Subhrangsu Taran and Sudipta Pal. *Study of magnetic and magnetocaloric properties in monovalent doped Pr<sub>0.75</sub>Li<sub>0.25</sub>MnO<sub>3</sub>*, AIP Conference Proceedings 2352, 020016 (2021)
4. Bhaskar Biswas, Ripan Nag, Mintu Debnath, Subhrangsu Taran and Sudipta Pal. *Magnetic and magnetocaloric properties of monovalent (Li<sup>+</sup>) doped PrMnO<sub>3</sub>: a study by Maxwell relation and Landau theory*, Applied Physics A 128, 556 (2022).
5. B. Biswas, R. Nag, S. Mondal, M. H. Khan, M. Debnath, Subhrangsu Taran and Sudipta Pal. *Magnetic field dependent metal-insulator transition by monovalent doping (Na<sup>+</sup>) in PrMnO<sub>3</sub>*: Investigation through structural, magnetic and transport properties, Physica B 652 414664 (2023).

Google Scholar link:

[https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C5&q=Sudipta+Pal++University+of+Kalyani&oq=SUdipta+Pal](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=Sudipta+Pal++University+of+Kalyani&oq=SUdipta+Pal)