

LIST OF PUBLICATIONS

Total Publications:	141
1. Papers in refereed Journals:	102
2. Papers in Proceedings of International/ National Conferences:	12
3. Paper presented in of International/ National Conferences:	27

A. Publications in Journals:

1. "Physical properties of Fe-doped CdS quantum dots: Single dot rectifying diode application", Piyali Maity, Ravi Kumar, S. N. Jha, D. Bhattacharyya, Sandip Chatterjee, Bhola Nath Pal, Anup K Ghosh, *RSC Applied Interfaces*, 2025 (DOI: 10.1039/D4LF00337C)

2024

2. "Structural, dielectric, and electrical transport properties of $\text{La}_2\text{FeMnO}_6$ double perovskite for multifunctional applications", Baniya R. Meena, Mohd Alam, Sandeep Chatterjee, and **Anup K. Ghosh**, *Ceramics International* (DOI: 10.1016/j.ceramint.2024.12.166)
3. "Electrical and magnetic properties of double perovskite $\text{Y}_{2-x}\text{Ca}_x\text{CoMnO}_6$ ($x = 0.1, 0.2, 0.5$)", Dheeraj Kumar; Mohd Alam; Prajyoti Singh; Srishti Dixit; **A. K. Ghosh**; Sandip Chatterjee, *J. Mat. Sc.: Materials in Electronics*, **35:1670 (2024)**, (DOI:10.1007/s10854-024-13399-2)
4. "Wafer scale growth of single crystal two-dimensional van der Waals materials", Chetna Gautam, Baishali Thakurta, Monalisa Pal, **Anup Kumar Ghosh*** and Anupam Giri*, *Nanoscale* **16**, 5941-5959, (2024).

2023

5. "Modulated Antimicrobial Activity and Drug-Protein Interaction Ability of Zinc Oxide and Cadmium Sulfide Nanoparticles: Effect of Doping with Few First-Row Transition Metals", Imocha Rajkumar Singh, Upashna Chettri, Piyali Maity, Anup K. Ghosh, S. R. Joshi, Sivaprasad Mitra, *J. Cluster Science*, **34**, 799–811 (2023) DOI:10.1007/s10876-022-02257-y
6. "Enhancement of Multiferroic and Optical Properties in BiFeO_3 Due to Different Exchange Interactions Between Transition and Rare Earth Ions", Seema Kumari, Khyati Anand, Mohd Alam, Labanya Ghosh, Srishti Dixit, Rahul Singh, Anil Kumar Jain, Seikh Mohammad Yusuf, Chetna Gautam, Anup K Ghosh, Anita Mohan, Sandip Chatterjee, *Physica Status Solidi b* **260 (9)**, 2300026 (2023) (doi #10.1002/pssb.202300026).
7. "Giant dielectric constant, magnetocaloric effect and spin-phonon coupling in EuTbCoMnO_6 semiconductor", Mohd Alam, Labanya Ghosh, Srishti Dixit, Madhusmita Jen, Seema Kumari, Satya Vijay Kumar, Dheeraj Kumar, Abhineet Verma, A.K. Ghosh, Satyen Saha, R.J. Choudhary, Sandip Chatterjee, *Physica B: Condensed Matter* **665**, 415043 (2023) Doi: [10.1016/j.physb.2023.415043](https://doi.org/10.1016/j.physb.2023.415043)

2022

8. "Highly Sensitive Broadband Photodetector Based on PbI_2 Passivated CdS:Mn Quantum

- Dots with a Spectrally Flat Response”, Piyali Maity, Satya Veer Singh, Santanu Das, **Anup K. Ghosh***, Bhola N. Pal*, *J. Phys. Chem. C* **126**, 34, 14634–14641 (2022), (DoI: 10.1021/acs.jpcc.2c02890
9. “Roles of surface and bulk states in giant magnetoresistance and anomalous hall effect in antiferromagnetically ordered $\text{Bi}_{1.9}\text{Dy}_{0.1}\text{Te}_3$ topological insulator”, Vinod K. Gangwar, Shiv Kumar, Mahima Singh, Debarati Pal, Labanya Ghosh, Prajyoti Singh, Zhang Yufeng, Chaoyu Chen, Eike F. Schwier, Kenya Shimada, Prashant Shahi, Yoshiya Uwatoko, Swapnil Patil, **Anup K. Ghosh** and Sandip Chatterjee, *JMCC* DOI: 10.1039/D2TC03255D.
 10. Interplay of spin, phonon, and lattice degrees in a hole-doped double perovskite: Observation of spin–phonon coupling and magnetostriction effect”, *J. Appl. Phys.* **132**, 223906 (2022) <https://doi.org/10.1063/5.0110250>.
 11. “Unravelling the Physical Properties of Mn-doped CdS Diluted Magnetic Semiconductor Quantum Dots for potential application in Quantum Spintronics”, Piyali Maity, Ravi Kumar, S. N. Jha, D. Bhattacharyya, Ranjan Kumar Singh, Sandip Chatterjee, and Anup Kumar Ghosh*, *J Mater Sci: Mater Electron* **33**, 21822–21837 (2022) DoI: 10.1007/s10854-022-08969-1
 12. “Spontaneous exchange bias and large dielectric constant in $\text{Bi}_{0.8}\text{Tb}_{0.2}\text{Fe}_{0.8}\text{Mn}_{0.2}\text{O}_3$ multiferroic”, *J. Appl. Phys.* **132**, 183909 (2022) <https://doi.org/10.1063/5.0106110>
 13. “Observation of structural change-driven Griffiths to non-Griffiths-like phase transformation in $\text{Pr}_{2-x}\text{Sr}_x\text{CoFeO}_6$ ($x=0$ to 1)”, Arkadeb Pal, Khyati Anand, Dheeraj Kumar, Amish G. Joshi, Peter Tsung-Wen Yen, Shin-Ming Huang, H.D. Yang, A. K. Ghosh, Sandip Chatterjee, *J. Mag. and Mag. Mater.* **562**, 169764 (2022) DOI:10.1016/j.jmmm.2022.169764
 14. “Lattice dynamics of $\text{Bi}_{1.9}\text{Dy}_{0.1}\text{Te}_3$ topological insulator”, Labanya Ghosh, Vinod K. Gangwar, Mahima Singh, Satya Vijay Kumar, Srishti Dixit, Abhineet Verma, Durgesh Kumar Sharma, Sudhir Kumar, S. Saha, A. K. Ghosh, and Sandip Chatterjee, *Physica B: Condensed Matter* **640**, 414050 (2022), DOI:10.1016/j.physb.2022.414050
 15. “Effect of f–d and d–d Interactions on Dielectric and Optical Properties of Pyrochlore $\text{Eu}_{2-x}\text{Fe}_x\text{Ti}_2\text{O}_7$ ”, Mohd Alam, Arkadeb Pal, Surajit Ghosh, Ranjan K. Singh, Anup K. Ghosh, Sandip Chatterjee, *Physica status solidi b*, **259**, 2100643 (2022) DOI:10.1002/pssb.202100643
 16. “Multifunctional behaviour in B-site disordered double perovskite EuPrCoMnO_6 ”, Mohd Alam, Labanya Ghosh, Supriyo Majumder, Prajyoti Singh, Satya Vijay Kumar, Srishti Dixit, Dheeraj Kumar, Khyati Anand, Seema Kumari, A K Ghosh, R J Choudhary and Sandip Chatterjee, *J. Physics D Applied Physics*, **55**, 255003 (2022); DOI:10.1088/1361-6463/ac5fd4
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 17. “Defect persuade paramagnetic properties of nickel doped ZnS nanocrystals and identification of structural, optical, local atomic structure”, Soumendra Ghorai, Dibyendu Bhattacharyya, Nirmalendu Patra, Shambhu Nath Jha, and Anup K. Ghosh, *J. Mater Science: Materials in Electronics* (2021), 32(11), 15563-15576, [Impact factor: 2.33].
 18. “Role of Cobalt Doping in CdS Quantum Dots for Potential Application in Thin Film Optoelectronic Devices”, Piyali Maity, Shiv Kumar, Ravi Kumar, S. N. Jha, D. Bhattacharyya, S. R. Barman, Sandip Chatterjee, Bhola N. Pal, and Anup K. Ghosh, *J. Phys. Chem. C*,

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19. S. Roy, S. Chatterjee, Anup K Ghosh, “A versatile low-cost experimental set-up and measurement protocol for temperature dependent electrical measurements in the temperature range 100 K – 500 K”, *Vacuum* (2020), **176**,109308. [Impact factor: 3.63]
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22. A Singh, S Kumar, M Singh, P SINGH, R Singh, VK Gangwar, S Patil, Eike F Schwier, Takeshi Matsumura, K Shimada, Anup K Ghosh, Sandip Chatterjee, “Anomalous Hall effect in Cu doped Bi_2Te_3 Topological Insulator”, *J. Physics: Condensed Matter*. (2020), **32** (30), 305602. [Impact factor: 2.70]
23. Surajit Ghosh, Abhishek Kumar, Arkadeb Pal, Prajyoti Singh, Prince Gupta, Khyati Anand, U.K. Gautam, A.K. Ghosh, Sandip Chatterjee, “Existence of Exchange bias and Griffith Phase in $(\text{Tb}_{1-x}\text{Ce}_x)\text{MnO}_3$ ”, *J. Mag. and Mag. Mater.* (2020) **500**, 166261. [Impact factor: 2.717]

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26. “Identification of point defects on Co-Ni co-doping in SnO_2 nanocrystals and their effects on the structural and optical properties”, S. Roy, Brijmohan Prajapati,, A. Singh, Amish G. Joshi, S. Chatterjee, and Anup K. Ghosh, *J. Appl. Phys.* (2019) **126**, 154303. [Impact factor: 2.286].
27. “Influence of chromium concentration on the structural, electronic structure, optical and temperature dependent magnetic properties of ZnS nanocrystals”, S. Ghorai, N. Patra, D. Bhattacharyya, S. N. Jha, B. Ray, S. Chatterjee, Anup K. Ghosh, *J. Mater Science: Materials in Electronics* (2019), **30**, 11652–11664. [Impact factor: 2.33].
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46. “Structural, magnetic, magneto-transport properties, and electronic structure study of charge-ordered $(\text{La}_{0.4}\text{Pr}_{0.6})_{0.65}\text{Ca}_{0.35}\text{MnO}_3$ ”, G.D. Dwivedi, S. Kumar, A.G. Joshi, S. Kumar, A. K. Ghosh, H. Chou, H. D. Yang, S. Chatterjee, *J. Alloys & Comp.* (2017), **699**, 31-37. [Impact factor: 4.650].
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