

Publications:

2019:

1. “Microstructure, dielectric, ferroelectric and magnetoelectric coupling of a novel multiferroic of [(GdMnO₃)_{0.7}(CoFe₂O₄)_{0.3}]_{0.5}[TiO₂]_{0.5} nanocomposite” A Mitra, **A Shaw**, P K Chakrabarti, *Journal of Magnetism and Magnetic Materials* 488, 165338 (2019).
2. “Realization of spin-canted magnetism from lattice site specific spin structure in the double perovskite Nd₂CoTiO₆” **A Shaw**, A Mitra, SD Kaushik, V Siruguri, PK Chakrabarti, *Journal of Magnetism and Magnetic Materials* 488, 165338 (2019).

2018:

3. “Improved magneto-electric properties of LaFeO₃ in La_{0.8}Gd_{0.2}Fe_{0.97}Nb_{0.03}O₃” A Mitra, AS Mahapatra, A Mallick, **A Shaw**, N Bhakta, PK Chakrabarti, *Ceramics International* 44,4442(2018).
4. “Modulation of magnetic and dielectric property of LaFeO₃ by simultaneous doping with Ca²⁺ and Co²⁺-ions” AS Mahapatra, A Mitra, A Mallick, **A Shaw**, JM Greneche, PK Chakrabarti, *Journal of Alloys and Compounds* 743, 274 (2018).
5. “Structural, magnetic, dielectric and magneto-dielectric properties of (BaTiO₃)_{0.70} (Li_{0.3}Zn_{0.4}Fe_{2.3}O₄)_{0.30}” AS Mahapatra, A Mitra, A Mallick, **A Shaw**, PK Chakrabarti, *Materials Research Bulletin* 102,226 (2018).

2017:

6. “Simultaneous enhancement of magnetic and ferroelectric properties of LaFeO₃ by co-doping with Dy³⁺ and Ti⁴⁺” A. Mitra, A.S. Mahapatra, A. Mallick, **A. Shaw**, M. Ghosh, P.K. Chakrabarti, *Journal of Alloys and Compounds*, 726, 1195 (2017).

2016:

7. “Dynamics of silver ions in AgI doped Ag₂O–SeO₂–MoO₃ mixed former glasses” A. Palui, **A. Shaw**, A. Ghosh, *Physical Chemistry Chemical Physics*, 18, 25937 (2016).

8. “Dielectric relaxation in AgI doped silver selenomolybdate glasses” A. Palui, **A. Shaw**, A. Ghosh, *AIP Conference Proceedings*, 1731 (1), 070022 (2016).

2015

9. “Ion dynamics in single and mixed former glasses: Correlation between microscopic lengths and network structure” **A. Shaw**, B. Deb, S. Kabi, A. Ghosh, *Journal of Electroceramics*, 34, 20 (2015).

2014:

10. “Dynamics of lithium ions in borotellurite mixed former glasses: Correlation between the characteristic length scales of mobile ions and glass network structural units” **A. Shaw**, A. Ghosh, *The Journal of Chemical Physics*, 141, 164504 (2014).

2013:

11. “Correlation of ion dynamics with characteristic length scales and network structural units in bismuth borate glasses” **A. Shaw**, A. Ghosh, *The Journal of Chemical Physics*, 139,114503(2013).

2012:

12. “Influence of Immobile Ions on the Length Scale of Ion Transport in Conducting Phosphate Glasses” **A. Shaw**, A. Ghosh, *The Journal of Physical Chemistry C*, 116, 24255 (2012).

13. “Correlation of microscopic length scales of ion dynamics with network structure in lithium-iodide-doped lithium metaphosphate glasses” **A. Shaw**, A. Ghosh, *Europhysics Letters*,100,66003(2012).

14. “Effect of Bi₂O₃ on dynamics of Li⁺ ions in lithium phosphate glasses” **A. Shaw**, A. Ghosh, *AIP Conference Proceedings* ???, 1447 (1), 577 (2012).