

List of Publications

1. **Effect of Chemical Pressure at the Boundary of Mott Insulator to Itinerant Electron Limit Transition in Spinel Vanadates, P. Shahi, A. Kumar, Rahul Singh, Ripandeep Singh, P. U. Sastry, A. Das, Amish G. Joshi, A. K. Ghosh, A. Banerjee, Sandip Chatterjee**, Science of Advanced Materials 7 (6), 1187-1196 (2015).
2. **Transport, magnetic and structural properties of Mott insulator MnV_2O_4 at the boundary between localized and itinerant electron limit, Prashant Shahi, Saurabh Kumar, Neetika Sharma, Ripandeep Singh, P. U. Sastry, A. Das, A. Kumar, K. K. Shukla, A. K. Ghosh, A. K. Nigam, Sandip Chatterjee.**, Journal of Materials Science 49 (20), 7317-7324 (2014).
3. **Effect of Zn doping on the Magneto-Caloric effect and Critical Constants of Mott Insulator MnV_2O_4 , Prashant Shahi, Harishchandra Singh, A. Kumar, K. K. Shukla, A. K. Ghosh, A. K. Yadav, A. K. Nigam, Sandip Chatterjee,** AIP Advances 4 (9), 097137 (2014).
4. **Effect of dilution of both A- and B- sites on the multiferroic properties of spinal Mott insulators, Prashant Shahi, R. Singh, Shiv Kumar, A. Tiwari, A. Tripathi, J. Saha, S. Patnaik, A. K. Ghosh, Sandip Chatterjee (communicated).**
5. **Local structure study of Co doped ZnV_2O_4 by EXAFAS, Prashant Shahi, R. Singh, N. Tiwari, D. Bhattacharyya, S. N. Jha, Shiv Kumar, A. K. Ghosh, Sandip Chatterjee (Communicated).**
6. **Suppression of orbital entropy and enhancement of magnetocaloric effect in Li doped MnV_2O_4 , Prashant Shahi, R. Singh, Shiv Kumar, A. Tiwari, A. Tripathi, A. K. Ghosh, Sandip Chatterjee (under preparation).**

7. **Improvement in magnetic properties from Li doping in Mott insulator CoV_2O_4 ,** ***Prashant Shahi**, R. Singh, Shiv Kumar, A. Tiwari, A. Tripathi, A. K. Ghosh, Sandip Chatterjee (under preparation).*
8. **Effect of Pr- and Nd- doping on structural, dielectric, and magnetic properties of multiferroic $\text{Bi}_{0.8}\text{La}_{0.2}\text{Fe}_{0.9}\text{Mn}_{0.1}\text{O}_3$,** *Rahul Singh, G. D. Dwivedi, **P. Shahi**, D. Kumar, Om Prakash, A. K. Ghosh, and Sandip Chatterjee, Journal of Applied Physics 115 (13), 134102 (2014).*
9. **Signature of ferroelectricity in magnetically ordered Mo-doped CoFe_2O_4 ,** *G. D. Dwivedi, K. F. Tseng, C. L. Chan, **P. Shahi**, J. Lourembam, B. Chatterjee, A. K. Ghosh, H. D. Yang, Sandip Chatterjee, Physical Review B 82 (13), 134428 (2010).*
10. **Neutron diffraction study of multiferroic Mo-doped CoFe_2O_4 ,** *Amitabh Das, G. D. Dwivedi, Poonam Kumari, **P. Shahi**, H. D. Yang, A. K. Ghosh, Sandip Chatterjee, Journal of Magnetism and Magnetic Materials 379, 6-8 (2014).*
11. **Raman effect and magnetic properties of doped TbMnO_3 ,** *A. Kumar, **P. Shahi**, S. Kumar, K. K. Shukla, Ranjan Kr. Singh, A. K. Ghosh, A. K. Nigam, Sandip Chatterjee, Journal of Physics D: Applied Physics 46 (12), 125001 (2013).*
12. **Structural and magnetic properties of quasi-one-dimensional doped LiCuVO_4 ,** *Abhishek Kumar, Poonam Kumari, A. Das, G. D. Dwivedi, **P. Shahi**, K. K. Shukla, A. K. Ghosh, A. K. Nigam, K. K. Chattopadhyay, Sandip Chatterjee, Journal of Solid State Chemistry 208(12), 120-126 (2013).*
13. **Effect of Y-doping on the transport and magnetic properties of $\text{La}_{0.5}\text{Sr}_{0.5}\text{CoO}_3$ and $\text{La}_{0.7}\text{Sr}_{0.3}\text{CoO}_3$,** *G. D. Dwivedi, K. K. Shukla, **P. Shahi**, A. K. Ghosh, A. K. Nigam, Sandip Chatterjee, Journal of Materials Science 48 (5), 1997-2001 (2013).*

14. Existence of the multiferroic property at room temperature in Ti doped CoFe_2O_4 , G.

D. Dwivedi, Amish G. Joshi, H. Kevin, P. Shahi, A. Kumar, A. K. Ghosh, H. D. Yang, Sandip Chatterjee, Solid State Communications 152 (5), 360-363 (2012).

Conference papers

- 1. Magnetic and structural properties of Zn doped MnV_2O_4 ,** Prashant Shahi, K. K. Shukla, Rahul Singh, Sandip Chatterjee, A. Das, A. K. Ghosh, A. K. Nigam, AIP Conference Proceedings, 1591,1, 81-83 (2014).
- 2. Effect of Y doping on magnetic and transport properties of $\text{La}_{0.7}\text{Sr}_{0.3}\text{CoO}_3$,** G. D. Dwivedi, K. K. Shukla, P. Shahi, O. K. Jha, A. K. Ghosh, A. K. Nigam, Sandip Chatterjee, American Institute of Physics Conference Series, 1512,1, 942-943 (2013).
- 3. Short range ferromagnetic order in Mn-doped quasi one-dimensional LiCuVO_4 ,** Abhishek Kumar, P. Shahi, S. Upadhyay, Sandip Chatterjee, A. K. Ghosh, A. K. Nigam, Proceedings of the thirteenth international conference on magnetic fluids: abstract book (2013).
- 4. Magnetic Properties of Transition Metal Ion doped LiCuVO_4 ,** Sandip Chatterjee, A. Kumar, P. Shahi, A. K. Ghosh, A. K. Nigam, Asian Journal of Chemistry, 23, 12, 5632-5634 (2010).
- 5. Simultaneous Presence Of Ferroelectricity And Magnetism In Mo-Doped CoFe_2O_4 ,** G. D. Dwivedi, B. Chatterjee, A. K. Ghosh, K. F. Tseng, C. L. Chan, H. D. Yang, P. Shahi, Sandip Chatterjee, AIP Conference Proceedings, 1313, 1, 162-164 (2010).
- 6. Synthesis and study of structural, thermal and magnetic properties of $\text{Bi}_{0.8}\text{La}_{0.2}\text{Fe}_{1-x}\text{Mn}_x\text{O}_3$, ($0 \leq x \leq 0.10$) multiferroics,** B. Chatterjee, G. D. Dwivedi, A. K. Ghosh, P. Shahi, S. Chatterjee, B. Rana, A. Barman, Proceedings of DAE-BRNS third international symposium on materials chemistry (2010).