

Dr. C. Venkateshwaran

PUBLICATIONS:

1. Kumar, B. S., Kumar, Y. N., Kamalarasan, V., & Venkateswaran, C. (2020). Non-adiabatic small polaron hopping transport above metal-like to insulator transition in the vacant 3d-orbital Tb₂Ti₂O₇ pyrochlore oxide. *Journal of Materials Science: Materials in Electronics*.
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3. O. Padmaraj^{1,a)} and C. Venkateswaran¹.(2020). A study of hybrid bifunctional CuCo₂O₄/rGO electrocatalytic oxygen reduction and evolution reactions for rechargeable metal-air batteries. AIP Conference Proceedings 2265, 030677
4. RR Dorthy, C Venkateswaran, N Yogesh (2020). One-dimensional photonic hypercrystal for effective transmission of electromagnetic waves. AIP Conference Proceedings 2265 (1), 030389.
5. R Rathika, SJ Jeyakumar, M Kovendhan, DP Joseph, C Venkateswaran (2020). Study of 100 MeV O⁷⁺ ion beam irradiation effects on spray deposited 5 wt% 'Li' doped MoO₃ thin film. AIP Conference Proceedings 2265 (1), 030250.
6. S Thilagavathi, NP Shanker, C Venkateswaran (2020). Spin-glass behavior in nanocrystalline ZnFe₂O₄ spinel ferrite. AIP Conference Proceedings 2270 (1), 080003.
7. BS Kumar, RN Perumal, C Venkateswaran (2020). Concurrence of ferroelectric, dielectric and magnetic behaviour in Tb₂Ti₂O₇ pyrochlore. arXiv preprint arXiv:2010.05032.
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9. SK Balu, NP Shanker, M Manikandan, N Aparnadevi, T Mukilraj, C Venkateswaran (2020). Crossover to Negative Dielectric Constant in Perovskite PrMnO₃. *physica status solidi (a)* 217 (17), 2000230.
10. RR Dorthy, C Venkateswaran, V Subramanian, Z Ouyang, N Yogesh (2020). Fabry–Pérot modes associated with hyperbolic-like dispersion in dielectric photonic crystals and demonstration of a bending angle sensor at microwave frequencies. *Scientific Reports* 10 (1), 1-10.

11. R Rathika, M Kovendhan, DP Joseph, R Pachaiappan, AS Kumar, C Venkateswaran (2020). Tailoring the properties of spray deposited V₂O₅ thin films using swift heavy ion beam irradiation. Nuclear Engineering and Technology.
12. R Rathika, M Kovendhan, DP Joseph, K Vijayarangamuthu, AS Kumar, C Venkateswaran (2019). 200 MeV Ag¹⁵⁺ swift heavy ion beam induced property modifications in Nb₂O₅ thin films by fluence variation. Journal of Physics and Chemistry of Solids 135, 109089.
13. R Rathika, M Kovendhan, DP Joseph, K Vijayarangamuthu, AS Kumar, C Venkateswaran (2019). 200 MeV Ag¹⁵⁺ ion beam irradiation induced modifications in spray deposited MoO₃ thin films by fluence variation. Nuclear Engineering and Technology 51 (8), 1983-1990.
14. R Rathika, M Kovendhan, DP Joseph, C Venkateswaran, K Asokan (2019). Investigation of structural and electrical properties of pristine and 200 MeV Ag¹⁵⁺ ion irradiated 3 wt% 'Li' doped WO₃ thin films. Indian Journal of Physics 93 (12), 1559-1565.
15. APB Selvadurai, R Thiyagarajan, V Pazhanivelu, R Suriakarthick, W Yang, C Venkateswaran (2019). Metamagnetism emergence and spectroscopic elucidation of SmFeO₃ nanoceramics. Journal of Physics D: Applied Physics 52 (43), 435002.
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18. B Santhosh Kumar, P Manimuthu, N Praveen Shanker, T Mukilraj, C Venkateswaran (2019). Metal Insulator Transition in vacant 3d orbital Quantum Spin Liquid: Tb₂Ti₂O₇. arXiv, arXiv: 1904.12478.
19. BS Kumar, M Manikandan, T Mukilraj, NP Shankar, C Venkateswaran (2019). Pentagonal shaped ZnTiO₃ ceramics for microwave dielectric applications. Journal of Materials Science: Materials in Electronics 30 (1), 525-528.
20. R Rathika, M Kovendhan, DP Joseph, AS Kumar, K Vijayarangamuthu, C Venkateswaran (2019). Effect of 200 MeV Ag¹⁵⁺ ion beam irradiation at different fluences on WO₃ thin films. Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, Volume 439, 15 January 2019, Pages 51-58

21. B Shanker, C Venkateswaran (2018). Electrical property of Half Metallic Ferromagnet $\text{Pr}_{0.95}\text{Mn}_{0.93}\text{Fe}_{0.03}\text{O}_3$. arXiv preprint arXiv:1809.10350.
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30. B Santhosh Kumar, N Praveen Shankar, C Venkateswaran, P Manimuthu (2016). Half metallic ferromagnet $\text{Pr}_{0.95}\text{Mn}_{0.93}\text{Fe}_{0.03}\text{O}_3$ for spin based devices. *Proceedings of the seventh international symposium for research scholars on metallurgy, materials science and engineering*.
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37. M Manikandan, C Venkateswaran (2015). Observation of ferromagnetism in Mn doped KNbO₃. AIP Conference Proceedings 1665 (1), 130036.
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