

Publications in Journals – 2025

1. Shabir Dar, Soumik Bhattacharya, S. Bhattacharyya, G. H. Bhat, S. Jehangir, J. A. Sheikh, R. Banik, S. Nandi, G. Mukherjee, Sajad Ali, S. Chakraborty, S. Chatterjee, S. Das, S. Das Gupta, A. Dhal, S. S. Ghugre, A. Goswami, D. Mondal, S. Mukhopadhyay, S. Pal, D. Pandit, R. Raut, P. Ray, “Coexistence of single-particle and collective states in ^{116}Sb ”, *Physical Review C* 111 (2025) 14328
2. Ram Kumar Paul, R. Bhattacharjee, S. Bitragunta, A. Das, A. Banerjee, P. Dhara, T. Samanta and S. Pal, “Residual analysis based neutron-gamma pulses segregation of liquid scintillator detector”, *Journal of Instrumentation* 20 (2025) P01015
3. R. Mondal Saha, K. Banerjee, A. Chakraborty, N. Gayathri, Souvik Jana, Satya Samiran Nayak, G. R. Umapathy, Anirban Basak, S. Bhattacharyya, R. Shil, Satyajit Hazra, Saif Ahmad Khan, “Preparation of selenium target using sedimentation method for in-beam gamma-ray spectroscopic measurement”, *Nuclear Instruments and Methods in Physics Research Section A* 1074 (2025) 170288
4. Ekata Nandy, Subhasis Chattopadhyay, “Searching for initial state fluctuations in heavy ion collisions at FAIR energy using principal component analysis”, *The European Physical Journal A* 61 (2025) 39
5. Akash Mitra, Sanku Paul, Shashi C. L. Srivastava, “Quantum criticality and universality in the stationary state of the long-range Kitaev model”, *Physical Review B* 111 (2025) 104308
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9. D. Sarkar, S. Das, V. Taneja, M. Samanta, K. Jagadish, A. Das, M. Bhakar, S. Perumal, G. Sheet, Dirtha Sanyal, K. Pal, N. Ravishankar, U. V. Waghmare, and K. Biswas, “Glassy Thermal Transport Triggers Ultra-High Thermoelectric Performance in GeTe ”, *Advanced Materials* 37 (2025) 2417561
10. J. Mukherjee, D. Bhowmik, S. Bhowmick, Prasanta Karmakar, S. Bhattacharjee, “Low energy ion-beam mediated tailoring of structural, optical, and electrical properties of ITO films”, *Surface & Interface* 59 (2025) 105973
11. Arpan Arora, Ankur Kumar, Argha Dutta, N. Gayathri, Paramita Mukherjee, Suhrit Mula, “Degradation of Fe-Ni based ODS alloys in extreme environmental conditions”, *Materials Today Communications* 46 (2025) 112501
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15. Trijit Kumar Maiti, “Exergy evaluation through experimental validation of a helium liquefier model under various off-design mixed mode operations with and without LN_2 pre-cooling”, *Fusion Engineering and Design* 215 (2025) 114966

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25. ALICE Collaboration, “Addendum: Dielectron production in proton-proton and proton-lead collisions at $\sqrt{s_{\text{NN}}}=5.02\text{TeV}$ ”, *Physical Review C* 111 (2025) 24905
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