

Publications arising through I-STEM:

- 1) **Manikantan, V.**, Varalakshmi, G.S., Pillai, A. S., Alexander, A., Lucas, A., Kathiravan, E., Akash, B., A., and Enoch, I.V.M.V. (2023). 5-Fluorouracil-loaded designed praseodymium oxide – poly- β -cyclodextrin nanorods for effectively inhibiting breast cancer cells. *Inorganic Chemistry Communications*. Volume 153, July 2023, 110830 <https://doi.org/10.1016/j.inoche.2023.110830>
- 2) **Rahim, S.A.**, Mohan, KS S., Rabeeh VP, M., Joseph, M.A., Ali, M.M and Hanas, T. (2023). Hot rolled Mg-Ca/nHA composite for biodegradable implant material – A novel approach. *Materials Today Communications*. Volume 35, June 2023, 106235 doi.org/10.1016/j.mtcomm.2023.106235
- 3) **Mukherjee, A.**, Abdinejad, M., Mahapatra, S.S., Ruidas, B.C. (2023). Metal sulfide-based nanomaterials for electrochemical Carbon Dioxide reduction. *Journal of Royal Chemistry*. 2023,**11**, 9300-9332. doi.org/10.1039/D2TA08209H
- 4) **V. Aishwarya** and Das., S. (2023). Magnetized graphene oxide – Modified microencapsulated phase change material for enhanced heat transfer performance with reduced leakage. *Thermal Science and Engineering Progress*. [Volume 41](#), 1 June 2023, 101807. Her second paper is under review in Applied Thermal Engineering.
- 5) Dhara, M., Banerjee, S., Naskar, H., **Ghatak, B.**, Ali, SK.B, Das, Nityananda, Bandyopadhyay, Rajib, & Tudu, B. (2023). Electrochemical Detection of Aloe Emodin Using Platinum Electrode-Based Voltammetry Technique. *Journal of Material Sciences and Manufacturing Research*. ISSN: 2754-4915, Volume 4(1): 1-6
- 6) Ahlawat, M., Neelakshi, Ramapanicker R., & **Rao, V.G.** (2023). Design Principle of a Water-Dispersed Photocatalytic Perovskite through Ligand Deconstruction. *ACS Energy Letters*. 8, XXX, 2159–2168. doi.org/10.1021/acseenergylett.3c00532
- 7) Pakrashy, S., Mandal, K.P., Dey, S.K., Choudhury, F.A., Almalki, A.S., Islam, M.A. & **Dolai, M.** (2022). Design of a Structurally Novel Multipotent Drug Candidate by the Scaffold Architecture Technique for ACE-II, NSP15, and Mpro Protein Inhibition: Identification and Isolation of a Natural Product to Prevent the Severity of Future Variants of Covid 19 and a Colorectal Anticancer Drug. *ACS Omega*, 37, 33408–33422. doi.org/10.1021/acsomega.2c04051
- 8) Shandilya, E., Shikha., Priyanka & **Maiti S.** (2022). Directional migration propensity of calf thymus DNA in a gradient of metal ions. *Chemical Communications*, Issue -67. doi.org/10.1039/d2cc03160d
- 9) Rajagopalan, K., Ramasubramanian, B., Manojkumar, K., Ramakrishna, S., Marappan, P., and **Saminathan, R.K.** (2022). New Journal of Chemistry. *Organo-metallic electrolyte additive for regulating hydrogen evolution and self-discharge in Mg–air aqueous battery*. [Issue 41](#). doi.org/10.1039/D2NJ04488A