## List of Publications:

1. **Chakraborty, I**., Chakrabarti, A., and Bhattacharyya, R. (2015). Enhancement of the accuracy of determination of transverse relaxation time in solution state nmr spectroscopy by using Uhrig's dynamic decoupling sequences. *Physical Chemistry Chemical Physics*, 17(48):32384-32389. Impact factor: 3.430, ISSN No: 1463-9076 (print) 1463-9084 (web)

2. Mukherjee, S., Dinda, H., Shashank, L., **Chakraborty, I.,** Bhattacharyya, R., Das Sarma, J., & Shunmugam, R. (2015). Site-specific amphiphilic magnetic copolymer nanoaggregates for dual imaging. *Macromolecules*, *48*(19), 6791-6800. Impact factor: 5.918, ISSN No: 0974-7478.

3. Chakrabarti, A., **Chakraborty, I**., and Bhattacharyya, R. (2016). Dynamic decoupling in the presence of 1d random walk *Journal of Statistical Mechanics: Theory and Experiment*, 2016(5):053210. Impact factor: 2.371, ISSN No: 1742-5468.

4. Mukherjee, S., Patra, D., Dinda, H., **Chakraborty, I.,** Shashank, L., Bhattacharyya, R., Das Sarma, J., and Shunmugam, R. (2016). Super paramagnetic norbornene copolymer functionalized with biotin and doxorubicin: a potential unique site-specific theranostic agent. *Macromolecules*, 49(7): 2411-2418. Impact factor: 5.918, ISSN No: 0974-7478.

5. **Chakraborty, I.,** Mukherjee, I., Haldar, U., De, P., and Bhattacharyya, R. (2017). Monitoring aggregation of a pH-responsive polymer via proton exchange. *Physical Chemistry Chemical Physics*, 19(26):17360-17365. Impact factor: 3.430, ISSN No: 1463-9076 (print) 1463-9084 (web)

6. Mukherjee, S., Dinda, H., **Chakraborty, I.,** Bhattacharyya, R., Das Sarma, J., and Shunmugam, R. (2017). Engineering camptothecin- derived norbornene polymers for theranostic application. *ACS Omega*, 2(6): 2848-2857. Impact factor: 2.58, ISSN no: 2470-1343.

7. **Chakraborty, I.,** Mukherjee, K., De, P., and Bhattacharyya, R. (2018). Monitoring coil-globule transitions of thermoresponsive polymers by using nmr solvent relaxation. *The journal of physical chemistry. B*, 122(22):6094--6100. Impact factor: 2.950, ISSN No: 1759-9954 (print) 1759-9962 (web)

8. Patra, D., Mukherjee, S., **Chakraborty, I.,** Dash, T. K., Senapati, S., Bhattacharyya, R., and Shunmugam, R. (2018). Iron (iii) coordinated polymeric nanomaterial: A next-generation theranostic agent for high resolution t1-weighted magnetic resonance imaging and anticancer drug delivery. *ACS Biomaterials Science & Engineering*, 4(5):1738-1749. Impact factor: 4.432, ISSN no: 2373-9878.

9. Mukherjee, S., Patra, D., Dash, T. K., **Chakraborty, I.,** Bhattacharyya, R., Senapati, S., & Shunmugam, R. (2019). Design and synthesis of a dual imageable theranostic platinum prodrug for efficient cancer therapy. *Polymer Chemistry*, *10*(23), 3066- 3078. Impact factor: 4.760, ISSN No: 1759-9954.

10. Bhattacharyya, R., **Chakraborty, I.,** Chakrabarti, A., & Mandal, S. (2020). Recent studies on accurate measurements of NMR transverse relaxation times. In *Annual Reports on NMR Spectroscopy* (Vol. 99, pp. 57-77). *Academic Press*., ISSN No: 0066-4103

11. Sarkar, D., **Chakraborty, I.,** Condorelli, M., Ghosh, B., Mass, T., Weingarth, M., & Bhunia, A. (2020). Self-Assembly and Neurotoxicity of β-Amyloid (21–40) Peptide Fragment: The Regulatory Role of GxxxG Motifs. *ChemMedChem*, *15*(3), 293-301. Impact factor: 3.124, ISSN No: 1860-7179.

12. **Chakraborty, I**., Kar, R. K., Sarkar, D., Kumar, S., Maiti, N. C., Mandal, A. K., and Bhunia, A. (2021). Solvent relaxation NMR: A tool for real-time monitoring water dynamics in protein aggregation landscape. *ACS Chem. Neurosci.* 12(19), 2903-2916. Impact factor: 4.486, ISSN No: 1948-7193.