

List of publications

Journals:

- [1] **S. Chakraborty**, N. S. Bhattacharyya and S. Bhattacharyya, "Single layered wide bandwidth nanosized strontium hexa-ferrite filled LLDPE absorber in X-Band", *Progress In Electromagnetics Research B*, Vol. 71, pp. 137-152, November 2016.
- [2] **S. Chakraborty**, N. S. Bhattacharyya and S. Bhattacharyya, "Effect of Co substitution on absorption properties of $\text{SrCo}_x\text{Fe}_{12-x}\text{O}_{19}$ hexagonal ferrites based nanocomposites in X-band", *Journal of Magnetism and Magnetic Materials*, Vol. 443, pp. 244-251, December 2017.

International Conference:

- [3] **S. Chakraborty**, N. S. Bhattacharyya and S. Bhattacharyya, "Activated Carbon from Used Tea Leaves for Development of Thin Sheet Composite Absorbers in X-band", *International Conference on Electronic Devices, Circuits, Applied Electronics and Communication Technology , Proc. of EDCAECT* , Guwahati, October 2015.
- [4] **S. Chakraborty**, N. S. Bhattacharyya, S. Bhattacharyya, "A performance study of doped strontium ferrite/ LLDPE nano composite as X-band microwave absorber", *International Conference on Innovative Research In Applied Physics, Material Sciences, Instrumentation, Electronics, Communication, Electrical, Power Control, Computer Science and Information Technology (TECHNOVA-2016)*, Guwahati, December 2016.
- [5] **S. Chakraborty**, N. S. Bhattacharyya, S. Bhattacharyya, "Development of Al- doped strontium ferrite/ LLDPE nano composite and its microwave absorption performance in X-band", *International Conference on Emerging Trends in Nanomaterials Science & Technology, Proc. of ICETNMST - 2017*, Nagaland, January 2017.
- [6] **S. Chakraborty**, N. S. Bhattacharyya, S. Bhattacharyya, "X-band Composite Microwave Absorber Using Doped Strontium Ferrite", *The 2017 IEEE Applied Electromagnetic Conference (AEMC 2017)*, Aurangabad, India, December 2017.

National Conference:

- [7] **S. Chakraborty**, N. S. Bhattacharyya, S. Bhattacharyya, “Effect of particle size on absorption effectiveness of hexa- ferrite nanoparticles at microwave ranges”, *UGC-SAP (DRS II) Sponsored National Conference on Hard and Soft Condensed Matter Physics (NCHSCMP-2017)*, Tezpur University, March 2017.

Papers Communicated/ under preparation:

- [1] **S. Chakraborty**, N. S. Bhattacharyya and S. Bhattacharyya, “Absorption properties of magneto-dielectric nanocomposite sandwich structures as X-band microwave absorbers”, communicated to *Journal of Material Science and Engineering:B*.
- [2] **S. Chakraborty**, N. S. Bhattacharyya and S. Bhattacharyya, “Microwave absorbing properties of double layer composites based on strontium ferrite”, communicated to *Journal of Microwave Power and Electromagnetic Energy*.