LIST OF PUBLICATIONS

Publications from thesis work:

1. **Das, P**., Barua, S., Sarkar, S., Chatterjee, S. K., Mukherjee, S., Goswami, L., Das, S., Bhattacharya, S., Karak, N., and Bhattacharya, S. S. Mechanism of toxicity and transformation of silver nanoparticles: Inclusive assessment in earthworm-microbe-soil-plant system. *Geoderma*, 314:73-84, 2018 **(IF=4.04)**.

2. **Das, P**., Barua, S., Karak, N., Bhattacharyya, P., and Bhattacharya, S.S. Plant extract –mediated green silver nanoparticles: Efficacy as soil conditioner and plant growth promoter. *Journal of Hazardous Materials*, 346:62–72, 2018 **(IF=6.06)**.

3. **Das, P**., Sarmah, K., Hussain, N., Pratihar, S., Das, S., Bhattacharyya, P., Patil, S.A., Kim, H.S., Iqbal, M., Khazie, A., and Bhattacharya, S.S. Novel synthesis of an iron oxalate capped iron oxide nanomaterial: a unique soil conditioner and slow release eco-friendly source of iron sustenance in plants. *RSC Advances*, 6(105):103012-103025, 2016 **(IF=3.10)**.

4. Pratihar, S., Bhattacharya, S. S., **Das, P.**, and Sarmah, K. Metal oxide based soil conditioner. *World Intellectual Property Organization*, WO 2017/168446 A1, 2017.

Additional publications:

1. Goswami, L., Kim, K. H., Deep, A., **Das, P**., Bhattacharya, S. S., Kumar, S., and Adelodun, A. A. Engineered nano particles: nature, behaviour, and effect on the environment. *Journal of Environmental Management*, 196:297-315, 2017 **(IF=4.01)**.

2. Barua, S., Konwar, R., Bhattacharya, S. S., **Das, P**., Devi, K.S.P., Maiti, T.K., Mandal, M., & Karak, N. Non hazardous anticancerous and anti bacterial colloidal 'green' silver nanoparticles. *Colloids and Surfaces B: Biointerfaces*, 105:37-42, 2013 **(IF =3.88)**.

3. Hussain, N., Das, S., Goswami, L., **Das, P**., Sahariah, B., & Bhattacharya, S.S. (2018) Intensification of vermitechnology for kitchen waste and paddy straw employing earthworm consortium: assessment of maturity time, microbial community structure , and economic benefit, *Journal of Cleaner Production*, 182:414-426, 2018 **(IF=5.71)**.

Patents:

1. Applied for an **Indian Patent**, **Application Number: 201631010727**

2. Applied for an **International Patent, Application Number: PCT/IN2017/050114**