
List of Publications

In Journals

- [1] **Kar, A.**, and Karak, N. Bio-based poly (ester amide): mechanical, thermal and biodegradable behaviors. *Journal of Polymer Research*, 29(9):366, 2022.
- [2] **Kar, A.**, Rather M. A., Mandal, M., and Karak, N. Elastomeric biodegradable poly (ester amide urethane) as a tough and robust material. *Progress in Organic Coatings*, 182:107684, 2023.
- [3] **Kar, A.**, and Karak, N. Lignin-based biochar/poly(ester amide urethane) nanocomposites: Sustainable approach for dye removal from contaminated wastewater (**Revised in *Journal of Renewable Materials*, Journal id: JRM 52220**).
- [4] **Kar, A.**, and Karak, N. Tailored biochar infused poly(ester amide urethane) nanocomposites for efficient heavy metal removal (**Manuscript submitted**).
- [5] Morang, S., Bandyopadhyay, Borah, N., **Kar, A.**, Mandal, B., and Karak, N. Photoluminescent self-healable waterborne polyurethane/Mo and S co-doped graphitic carbon nitride nanocomposite with bio-imaging and encryption capability. *ACS Applied Biomaterials*, 7(3):1910-1924, 2024.

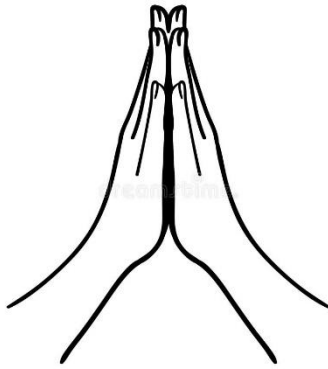
Book Chapters

- [1] **Kar, A.**, Borah, N., and Karak, N. Life cycle assessment approach for mitigating problems of plastic waste management. In Deshmukh, K. and Parameswaranpillai, J., editors, *Plastic Waste Management: Methods and Applications*, Wiley VCH, 2024.
- [2] Borah, N., **Kar, A.**, and Karak, N. Biocomposites of biopolymers with metals and their derivatives. In Karak, N. editor, *Advances in Biocomposites and their Applications*, Elsevier Inc. 2024.

Conferences

- [1] **Kar, A.** and Karak, N. Citric acid based poly(ester amide urethane) thermoset as a sustainable coating material, Frontiers in Chemical Sciences (FICS 2022) at Indian Institute of Technology, Guwahati, 2-4 December 2022, India.

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- [2] **Kar, A.** and Karak, N. Fabrication of a bio-based tough water soluble poly(ester amide) as an environmentally benign polymeric material, International Conference on Materials Chemistry and Catalysis (MCC 2021) at Tezpur University, Tezpur, 4-5 March 2021.
- [3] **Kar, A.** and Karak, N. Lignin-based biochar/poly(ester amide urethane) nanocomposites: Sustainable approach for dye removal from contaminated wastewater, Current Trends of Research in Chemistry Towards Sustainability, Health Care and Forensic Analysis (SusChemHeca-2024) at Tezpur University, Tezpur, 14-15 March 2024. **(Best Oral presenter award).**



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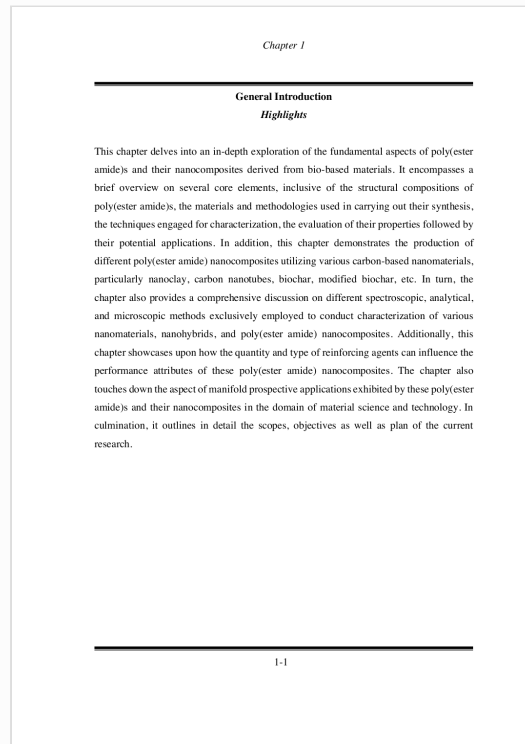


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by Annesha Kar

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Biju Philip, K Sreekumar. "Optically active poly(ester-amide)s: synthesis and characterization", Polymer International, 2001

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T. O. Siyanbola, K. Sasidhar, B. Anjaneyulu, K. P. Kumar et al. "Anti-microbial and anti-corrosive poly (ester amide urethane)

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"Enhanced UV emission and supercapacitor
behavior of Zn doped CeO₂ quantum dots",
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