Short Bio-data

Name: Dr. Prosenjit Ghosh

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Area of Expertise: Carbon fiber, elastomer, polymer composites

Specialization: Polymer Science and Technology

Publications: Please refer to **Annexure I**

Subject area willing to guide the student: Chemical/Engineering sciences

Aero / Chemistry / Computer Science / Electronics / Electrical / Mathematics / Mechanical / Physics / etc.

Annexure I

I. Pardhi T K, V. Balaji V, Sheeja S, Sri Ganesh A, Naveen V, Porkodi P, Abhilash J K, Madhavan K and **Ghosh, P*** 2025 A review on manufacturing of aerospace grade Carbon fiber and prepregs. Science and Culture, 91 (1–2): 37-48, https://doi.org/10.36094/sc.v89.2025.

II. **Ghosh, P*.,** 2024. Performance assessment of aluminum chips in reduced-scale friction for developing copper-free elastomer-modified friction composites. Progress in Rubber, Plastics and Recycling Technology, p.14777606241231887.

III. **Ghosh, P.**, Naskar, K. and Das, N.C., 2020. Influence of synthetic graphite powder on tribological and thermo-mechanical properties of organic-inorganic hybrid fiber reinforced elastomer-modified phenolic resin friction composites. Composites Part C, p.100018.

IV. Shukla, H.K., Barshilia, H., Sunil, S., Porkodi, P., **Ghosh, P.**, Viju, Kamaleshaiah, M.S. and Jadhav, J.J., 2020. Development of indigenous personal protective equipment coverall by CSIR-NAL. Indian Chemical Engineer, pp.1-7.

V. **Ghosh, P*.**, Banerjee, S.S. and Khastgir, D., 2020. Elastomer modified phenolic resin-based composites with reduced scale friction: Influence of calcined petroleum coke on tribological and thermo-mechanical behavior. Polymer Engineering & Science, 60(7), 1446-1458.

VI. **Ghosh, P*.**, Banerjee, S.S. and Khastgir, D., 2020. Performance assessment of hybrid fibrous fillers on the tribological and thermo-mechanical behaviors of elastomer modified phenolic resin friction composite. SN Applied Sciences, 2, pp.1-14.

VII. **Ghosh, P.**, Naskar, K. and Das, N.C., 2020. Enhancement of tribological and thermo-mechanical properties of phenolic resin friction composites by improving interactions between elastomeric phase and matrix resin. SN Applied Sciences 2.11, pp. 1-13.

VIII. Das, T.K., **Ghosh, P.** and Das, N.C., 2019. Preparation, development, outcomes, and application versatility of carbon fiber-based polymer composites: a review. Advanced Composites and Hybrid Materials, pp.1-20.

IX. **Ghosh, P.**, Ghosh, D., Kumar Chaki, T. and Khastgir, D., 2017. NBR powder modified phenolic resin composite: influence of graphite on tribological and thermal properties. Tribology Transactions, 60(3), pp.548-556.

X. **Ghosh, P.**, Ghosh, D., Khastgir, D. and Chaki, T.K., 2016. Effect of aramid pulp and lapinas fiber on the friction and wear behavior of NBR powder–modified phenolic resin composite. Tribology Transactions, 59(3), pp.391-398.