

LIST OF PUBLICATIONS

International Journals:

1. Kapila, K., Kirtania, S., Devi, L. M., Saikumar, A., Badwaik, L. S., and Rather, M. A. Potential perspectives on the use of poly (vinyl alcohol)/graphene oxide nanocomposite films and its characterization. *Journal of Food Measurement and Characterization*, 18(2):1012–1025, 2024.
2. Kapila, K., Kirtania, S., Nath, K. K., Saikumar, A., Badwaik, L. S., and Ahmed, G. A. Synergistic effect of graphene oxide on the properties of poly (vinyl alcohol)/carboxymethyl cellulose electrospun nanofiber mats. *Journal of Vinyl and Additive Technology*, 31(3): 572-588, 2025 2025.
3. Kapila, K. and Kirtania, S. Development and characterization of biodegradable polyvinyl alcohol/carboxymethyl cellulose composite films. *Journal of Food Measurement and Characterization*, 19(4):2425–2437, 2025.

International Conferences:

1. Kapila, K., Kirtania, S., and Badwaik, L.S. Mechanical and optical characterization of hybrid PVA-CMC based biodegradable films. In *International Conference on Sustainable Approaches in Food Engineering and Technology (SAFETy-2022)*, Tezpur University, Tezpur Assam, India, 2022.
2. Kapila, K. and Kirtania, S. Fabrication and characterization of hybrid polyvinyl alcohol/carboxy-methyl cellulose polymer films. In *2nd International Conference on Recent and Advanced Composite Materials (ICRACM-2023)*, SRM Institute of Science and Technology, Kattankulathur, Chengalpattu, Tamil Nadu, India, 2023.
3. Kapila, K. and Kirtania, S. Development of PVA-based electro-spin nanofiber mats and its characterization. In *Applications of Chemistry in Nanosciences and Biomaterials Engineering (NanoBioMat) 2023 – Winter Edition Conference*, National University of Science and Technology Politehnica, Bucharest, Romania, 2023.
4. Kapila, K. and Kirtania, S. Potential application of PVA based electro spun nanofiber mates. In *Applications of Chemistry in Nanosciences and Biomaterials Engineering (NanoBioMat) 2024 – Summer Edition Conference*, National University of Science and Technology Politehnica, Bucharest, Romania, 2024.