

LIST OF PEER-REVIEWED JOURNAL ARTICLES

429. Mohanty, A., Wu, F., Mincheva, R., Hakkarainen, M., Raquez, J.M., Mielewski, D.F., Narayan, R., Netravali, A.N. & **Misra, M.** (2022). "Sustainable Polymers". *Nature Reviews Methods Primers*, 2 (46).
428. Pesaranhajiabbas, E., Pal, A., Rodriguez-Uribe, A., Mohanty, A. K., & **Misra, M.** (2022). "Biodegradable Polymer Blends: Studies on Performance Control through Droplet to Co-Continuous Morphology". *ACS Applied Polymer Materials*, (Accepted June 10, 2022).
427. Ford, R., **Misra, M.**, Mohanty, A. K., Brandon, S. (2022). "Effect of simulated mass-tunable auxetic midsole on vertical ground reaction force". *Journal of Biomechanical Engineering*, (Accepted June 2, 2022).
426. Mishra, R., Mohanty, A. K., & **Misra, M.** (2022). "Value-added biocarbon production through slow pyrolysis of mixed bio-oil wastes: Studies on their physicochemical characteristics and structure-property-processing co-relation". *Biomass Conversion and Biorefinery*, (Accepted June 1, 2022).
425. Ford, R., Pal, A., Scott, B., **Misra, M.**, Mohanty, A. K. (2022). "The influence of fused filament fabrication printing parameters on the mechanical properties of a thermoplastic elastomer". *Rapid Prototyping Journal*, (Accepted May 8, 2022).
424. Scharnowski, J. B., Rodriguez-Uribe, A., Pal, A. K., Wang, T., Snowdon, M. R., **Misra, M.**, & Mohanty, A. K. (2022). "Biocomposites from thermoplastic postindustrial waste starches filled with mineral fillers for single-use flexible packaging". *Macromolecular Materials and Engineering*, 2100960.
423. Roy, P., Mohanty, A. K., & **Misra, M.** (2022). "Microplastics in the ecosystems: Their implications and mitigation pathway". *Environmental Sciences Advances*.
422. Gupta, A., Mohanty, A. K., & **Misra, M.** (2022). "Biocarbon from spent coffee ground and their sustainable biocomposites with recycled water bottle and bale wrap: A new life for waste plastics and waste food residues for industrial uses". *Composites Part A: Applied Science and Manufacturing*, 154, 106759.
421. Mishra, R., **Misra, M.**, & Mohanty, A. K. (2022). "Value-added bio-carbon production through slow pyrolysis of waste bio-oil: Fundamental studies on their structure-property-processing correlation". *ACS Omega*.
420. Chen, G., **Misra, M.**, & Mohanty, A. K. (2022). "Studies on curing kinetics of polyphenylene sulfide (PPS): An insight into effects of curing temperature and time on structure and thermo-mechanical behavior". *Journal of Applied Polymer Science*, 51817.
419. Sankari, M.S, Vivekanandhan, S., **Misra, M.** Mohanty, A.K. (2021). "Review on oil cakes as the sustainable agro-industrial feedstock for biocarbon materials". *ChemBioEng Reviews*.
418. Rodriguez-Uribe, A., Wang, T., Pal, A.K., Wu, F., Mohanty, A.K., **Misra, M.** (2021). "Injection moldable hybrid sustainable composites of PBS and PHBV reinforced with talc and starch as potential alternatives to single-use plastic packaging". *Composites Part C: Open Access*, 100201.
417. Maldonado, B., Pal, A., Mohanty, A. K. & **Misra, M.** (2021). "Sustainable 3D printed composites from recycled ocean plastics and pyrolyzed soy-hulls: Optimization of printing parameters, performance studies and prototypes development". *Composites Part C - Open Access*, 100197.

416. Pal, A., Mohanty, A. K., & **Misra, M.** (2021). "Additive manufacturing technology of polymeric materials for customized products: Recent developments and future prospective". *RSC Advances*, 11(58), 36398-36438.
415. Gonzalez de Gortari, M., Wu, F., Mohanty, A. K., & **Misra, M.** (2021). "Evaluating the performance of a semiaromatic/aliphatic polyamide blend: The case for polyphthalamide (PPA) and polyamide 4, 10 (PA410)". *Polymers*, 13(19), 3391.
414. Allohverdi, T., Mohanty, A. K., Roy, P., & **Misra, M.** (2021). "A review on current status of biochar uses in agriculture". *Molecules*, 26(18), 5584.
413. Chang, B. P., Rodriguez-Urbe, A., Mohanty, A. K., & **Misra, M.** (2021). "A comprehensive review of renewable and sustainable biosourced carbon through pyrolysis in biocomposites uses: Current development and future opportunity". *Renewable and Sustainable Energy Reviews*, 152, 111666.
412. Tripathi, N., **Misra, M.**, & Mohanty, A. K. (2021). "Durable polylactic acid (PLA) based sustainable engineered blends and biocomposites: Recent developments, challenges and opportunities". *ACS Engineering AU*.
411. Gonzalez de Gortari, M., **Misra, M.**, Gregori, S., & Mohanty, A. K. (2021). "Statistical design of biocarbon reinforced sustainable composites from blends of polyphthalamide (PPA) and polyamide 4,10 (PA410)". *Molecules*, 26(17), 5387.
410. Roy, P., Mohanty, A. K., Wagner, A., Sharif, S., Khalil, H., & **Misra, M.** (2021). "Impacts of COVID-19 outbreak on the municipal solid waste management: Now and beyond the pandemic". *ACS Environmental Au*.
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407. Watt, E., Picard, M., Maldonado, B., Abdelwahab, M., Mielewski, D.F., Drzal, L.T., **Misra, M.** & Mohanty, A.K. (2021). "Ocean plastics: Environmental implications and potential routes for mitigation - A perspective". *RSC Advances*, 11, 21447-21462.
406. Yokesahachartm C., Yoksan, R., Khanoonkon, N., Mohanty, A.K., & **Misra, M.** (2021). "The effect of jute fibers on morphological characteristics and properties of thermoplastic starch/biodegradable polyester blend". *Cellulose*, 28(9), 5513–5530.
405. Meereboer, K., Pal, A., **Misra, M.**, & Mohanty, A.K. (2021). "Green composites from bioplastic blend of poly (hydroxybutyrate-co-valerate) and carbon dioxide-derived poly (propylene carbonate) and filled with corn ethanol industry co-product". *ACS Omega*.
404. Wu, F., **Misra, M.**, & Mohanty, A.K. (2021). "Challenges and new opportunities on barrier performance of biodegradable polymers for sustainable packaging". *Progress in Polymer Science*. (Accepted, April 8, 2021).
403. Codou, A., Pin, J.M., **Misra, M.**, & Mohanty, A.K. (2021). "Impact of temperature and in situ FeCo catalysis on the architecture and Young's modulus of model wood-based biocarbon". *Green Chemistry*.

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