

(i) **In Refereed Journals:**

1. Shrasti Vasistha, Deepanraj, Balakrishnan, Manivannan, Arthi & **Monika Prakash Rai***. (2023). Microalgae on distillery wastewater treatment for improved biodiesel production and cellulose nanofiber synthesis: A sustainable biorefinery approach. *Chemosphere*. 315, 137666. Doi: 10.1016/j.chemosphere.2022.137666. (**Impact factor 8.94**).
2. Reetu, Mike Clifford, Rajiv Prakash, **Monika Prakash Rai***, Latest advances and status analysis of nanomaterials for microalgae photosystem, lipids and biodiesel: A state of art, *Journal of Environmental Chemical Engineering*, Volume 11, Issue 1, 2023, 109111, ISSN 2213-3437 (**Impact factor 8.0**)
3. Kushi Yadav, Anjali Saxena, Meenakshi, B Saha, Marayam Sarwat, **Monika Prakash Rai***. July 2023 (under production) Comparing Pharmacological Potential of Freshwater Microalgae Carotenoids Towards Antioxidant and Anti-proliferative Activity on Liver Cancer (HUH7) Cell-line. *Applied Biochemistry and Biotechnology*. DOI: 10.1007/s12010-023-04635-2 (**Impact factor 3.0**)
4. Kushi Yadav, Shashi Kumar, Ganesh Nikalje, **Monika Prakash Rai*** (2023) Combinatorial Effect of Multiple Abiotic Factors on Up-Regulation of Carotenoids and Lipids in *Monoraphidium sp.* for Pharmacological and Nutraceutical Applications. *MDPI Applied Sciences*, 13(10), 6107; <https://doi.org/10.3390/app13106107> (**IF 2.8**).
5. Reetu, Anirudh Jaiswal, Rajiv Prakash, Mike Clifford, **Monika Prakash Rai*** (2023). A sustainable bioeconomy approach for improved biodiesel production using photocatalytic GO@CN assisted cultivation of *Chlorosarcinopsis sp.* MAS04. *Biomass and Bioenergy*, 173, 106802. (**Impact factor 5.7**).
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7. Kushi Yadav, Ganesh Chandrakant Nikalje, Dibyajyoti Pramanik, Penna Suprasanna and **Monika Prakash Rai***. Screening of the Most Effective Media for Bioprospecting Three Indigenous Freshwater Microalgae Species. *International Journal of Plant Biology*. MDPI 2023, 14, 558–570. <https://doi.org/10.3390/ijpb14030044> (Scopus indexed)
8. Vasistha, S.; Khanra, A.; **Rai, M.P.**; Khan, S.A.; Ma, Z.; Munawaroh, H.S.H.; Tang, D.Y.Y.; Show, P.L. Exploring the Pivotal Significance of Microalgae-Derived Sustainable Lipid Production: A Critical Review of Green Bioenergy Development. *Energies* 2023, 16, 531. ISSN 1996-1073 (**Impact factor 3.25**) <https://doi.org/10.3390/en16010531>
9. Saxena Nandini, Vasistha Shrasti, **Rai Prakash Monika***. (2023) Algal biorefinery: an integrated process for industrial effluent treatment and improved lipid production in bioenergy application. *Vegetos*, 36 (1), 259 – 267. DOI :10.1007/s42535-023-00574-9. (Springer Scopus indexed)
10. Anwasha Khanra, Shrasti Vasistha, **Monika Prakash Rai***, Wai Yan Cheah, Kuan Shiong Khoo, Kit Wayne Chew, Lai Fatt Chuah, Pau Loke Show* Green bioprocessing and applications of microalgae-derived biopolymers as a renewable feedstock: Circular bioeconomy approach. *Environmental Technology & Innovation*, 2022, 28, 102872. (**IF 7.45**) <https://www.sciencedirect.com/science/article/pii/S2352186422003108>.
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 13. Shrasti Vasistha, Anwasha Khanra, Mike Clifford, Monika Prakash Rai*. Current advances in microalgae harvesting and lipid extraction processes for improved biodiesel production: A review. *Renewable and Sustainable Energy Reviews*, **2021**, *137*, 110498 (IF: **16.8**) link: <https://www.sciencedirect.com/science/article/abs/pii/S136403212030784X> (SCOPUS&WOS)
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(iii) **BOOK CHAPTERS:**

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