

Publications in Refereed Journals

1. Vaishali Chaudhary, **Monika Prakash Rai***. (2025) Advancements towards High-Yield Production of Natural Astaxanthin for Therapeutics: Global Status, Challenges and Future Directions. *Bioresource Technology Reports*, (Accepted on 28 December 2025). (IF 4.3)
2. Vaibhav Singh, Anupam Jyoti,..... **Monika Prakash Rai***. (2025) A critical review of cyanoblooms and cyanotoxins: risk assessment on human health and agriculture along with mitigation strategies using machine learning perspectives. *ACS Chemical Health & Safety*, 32 (4), 341-360. (IF 3.4)
3. Kushi Yadav, Manasvi Vashisht, **Monika Prakash Rai***. (2025) Employing microalgae cultivation on fruits and vegetable peel waste to produce biofuel, lutein, and biochar concurrently with an “Agro to Agro” algae biorefinery approach. *Environmental Science and Pollution Research*, 32, 1415-1429. (IF 4.5)
4. Sujata Sinha, J Kaur, **Monika Prakash Rai***(2024) Editorial entitled “Natural and synthetic microbiology for the production of novel biomolecules for application in the area of food, fuel, farming, pharma and environment. *Frontiers in Microbiology*.
5. Kushi Yadav, **Monika Prakash Rai*** (2024) Green innovation unites biodiesel production with bioremediation of waste metal cutting fluid using *Chlorella sorokiniana*. *Biomass Conversion and Biorefinery*, 15, 24839-51. (IF 4.0)
6. Reetu, Smriti Dhara, **Monika Prakash Rai*** (2024) Comparative pretreatment strategies for efficient lipid extraction followed by the valorization of algal biomass for biomaterial production. *Biointerface Research in Applied Chemistry*, 14 (5), 122. (IF 1.5)
7. Reetu, Shrasti Vasistha, Monalisa Mukherjee, **Monika Prakash Rai*** (2023) Accentuating microalgae biorefinery cascade by sustainable synthesis of carbon dots from defatted *Coelastrella sp.* and piloting the antibacterial activity. *Biomass Conversion and Biorefinery*. *Biomass Conversion and Biorefinery*. <https://doi.org/10.1007/s13399-023-05023-w>. (Impact factor 4.0).
8. Shrasti Vasistha, Deepanraj, Balakrishnan, Manivannan, Arthi & **Monika Prakash Rai***. (2023). Microalgae on distillery waste water treatment for improved biodiesel production and cellulose nanofiber synthesis: A sustainable biorefinery approach. *Chemosphere*. 315, 137666. Doi: 10.1016/j.chemosphere.2022.137666. (IF 8.94).
9. Reetu, Mike Clifford, Rajiv Prakash, **Monika Prakash Rai***(2023) Latest advances and status analysis of nanomaterials for microalgae photo system, lipids and biodiesel: A state of art, *Journal of Environmental Chemical Engineering*, 11(1), 109111, ISSN 2213-3437(Impact factor 8.0)
10. Kushi Yadav, Anjali Saxena, Meenakshi, B Saha, Marayam Sarwat, **Monika Prakash Rai***. (2023) Comparing Pharmacological Potential of Freshwater Microalgae Carotenoids Towards Antioxidant and Anti-proliferative Activity on Liver Cancer (HUH7) Cell-line. *Applied Biochemistry and Biotechnology*, 196, 2053-2066. DOI: 10.1007/s12010-023-04635-2 (Impact factor 3.0)
11. 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).
12. Reetu, Anirudh Jaiswal, Rajiv Prakash, Mike Clifford, **Monika Prakash Rai***(2023). A

sustainable bioeconomy approach for improved biodiesel production using photocatalyticGO@CNassistedcultivationof*Chlorosarcinopsissp.*MAS04.Biomass and Bioenergy, 173, 106802. **(Impact factor 5.7).**

13. Kushi Yadav, Anchala Singh,**Monika Prakash Rai***, (2023) Cultivation of *Monoraphidium sp.* on fruit peels to produce expedited lipids and carotenoids for the sustainable biorefinery. *Vegetos*, 37, 556-565. **DOI :10.1007/s42535-023-00674-6.**
14. 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>
15. Vasistha, S.; Khanra, A.;**Rai, M.P.**; Khan, S.A.; Ma, Z.; Munawaroh, H.S.H.; Tang, D.Y.Y.; Show, P.L. (2023) Exploring the Pivotal Significance of Microalgae-Derived SustainableLipidProduction:ACriticalReviewofGreenBioenergy Development. *Energies*,16,531.ISSN1996-1073(**Impactfactor 3.25**)<https://doi.org/10.3390/en16010531>
16. 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.
17. Anwsha Khanra, Shrasti Vasistha, **Monika Prakash Rai***, Wai Yan Cheah, Kuan Shiong Khoo, Kit Wayne Chew, Lai Fatt Chuah, Pau Loke Show* (2022) Green bioprocessing and applications of microalgae-derived biopolymers as a renewable feedstock: Circular bioeconomy approach. *Environmental Technology & Innovation*, **2022**, 28, 102872. **(IF 7.45)**
18. Kushi Yadav, Shrasti Vasistha, Prachi Nawkarkar, Shashi Kumar, **Monika Prakash Rai*** Algal biorefinery culminating multiple value-added products: Recent advances, emerging trends, opportunities, and challenges. *3 Biotech*. **2022**, 12, 244. <https://pubmed.ncbi.nlm.nih.gov/36033914/>(**IF2.8**)
19. Akanksha Aggarwal, Sampatkumar Jeevanandham, Chirantan Kar, **Monika Prakash Rai**, Vinod Kumar, Himadri Bhoidhar, Subrajit Biswas, Monalisa Mukherjee. Crystalline Domains Nested on Two-Dimensional Nanosheets as Heterogeneous Nanomachineries for the Sustainable Production of Bioactive Compounds from *Chlorella sorokiniana*. *ACS Sustainable Chemistry & Engineering*, **2022**, 10(30), 9732-9748, DOI: 10.1021/acssuschemeng.2c00861. <https://pubs.acs.org/doi/10.1021/acssuschemeng.2c00861>(**IF8.4**)
20. Shrasti Vasistha, Anwsha Khanra, Mike Clifford, Monika Prakash Rai*. Current advances in microalgae harvesting and lipid extraction processes for improved biodieselproduction:Areview.**RenewableandSustainableEnergyReviews**, **2021**, **137**, 110498 (IF: 16.8) link: <https://www.sciencedirect.com/science/article/abs/pii/S136403212030784X> (SCOPUS&WOS)
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 25. Anwesha Khanra, Shrasti Vasistha, **Monika Prakash Rai***. ZrO₂ nanoparticles mediated flocculation and increased lipid extraction in *Chlorococcum* sp. for biodiesel production: A cost effective approach. **Materials Today: Proceedings (ISSN 2214-7853)** 2020, Vol 28 part 3, pp 1847-1852. (indexed in SCOPUS, WOS). Doi: 10.1016/j.matpr.2020.05.290. <https://www.sciencedirect.com/science/article/pii/S2214785320338517>
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 27. Vrinda Vasistha, Deepali, Arpita Bhattacharya, **Monika Prakash Rai***, “Role of silica coated magnetic nanoparticle on cell flocculation, lipid extraction and linoleic acid production from *Chlorella pyrenoidosa*. **Natural Product Research (ISSN 1478-6419)** (Indexed in WOS and SCOPUS) (IF: 3, SJR 0.6), 2019, 34(19), doi: 10.1080/14786419.2019.1593164. <https://www.tandfonline.com/doi/abs/10.1080/14786419.2019.1593164?journalCode=gnpl20>
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(ii) **BOOKS:**

1. **Valorization of Solid Wastes to Biofuels and Chemical Products for Sustainable World.** Editors: Abha Kumari, **Monika Prakash Rai**, Abha Mishra, Arun Kumar
Springer Nature, **01st November 2025**. ISBN 978-981-96-8594-3 (eBook)
ISBN 978-981-96-8593-6, <https://doi.org/10.1007/978-981-96-8594-3>
2. **Natural and synthetic microbiology for the production of novel biomolecules for application in the area of food, fuel, farming, pharma and environment.**
Editors: **Monika Prakash Rai** & Guneet Kaur
Publisher: e-book by Frontiers in Microbiology. ISSN 1664-8714; ISBN 978-2-8325-5245-2; DOI 10.3389/978-2-8325-5245-2., **09 July 2024**.
3. **Microalgae Biotechnology for Wastewater Treatment, Resource Recovery and Biofuels: Towards Sustainable Biorefinery**
Authors: **Monika Prakash Rai** and Shrasti Vasistha
Publisher: Springer International Publishing AG, ISBN: 9783031316739, **24 June 2023**.

(iii) **BOOK CHAPTERS:**

1. Vaishali Chaudhary, Savita Chaurasia*, **Monika Prakash Rai***, Valorization of Pharmaceutical Wastes for the Production of Biofuels and Chemicals. In: Valorization of Solid Wastes to Biofuels and Chemical Products for Sustainable World. Pp 403. **2025**
2. Vaishali Chaudhary, Shrasti Vasistha, **Monika Prakash Rai*** Nanobiotechnology: an application approach for sustainable future. In: *Emerging Sustainable Nanomaterials for Biomedical Applications*, Springer Nature Switzerland, https://doi.org/10.1007/978-3-031-63961-6_10 **2024**
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7. Meenal Rastogi, Reetu, **Monika Prakash Rai** and Smriti Shrivastava. Technological interventions in microbial biofuel: innovative technologies and current perspectives. In Microbial bioprocesses: applications and perspectives. April 2023. 37-60. Academic press. ISBN: 978-0-323-95332-0
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10. **Monika Prakash Rai** and Neelima Lal. Application of Algae in Food Science, Antioxidants, Animal Feed and Aquaculture," In "Examining Algae as a Sustainable Solution for Food, Energy, and the Environment", IGI Global, published on 20 June 2022. DOI: 10.4018/978-1-6684-2438-4.ch016. ISBN 9781668424384
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13. Carbon Nanosheets for Sustainable Production of bioactive Compounds from Microalgae: Divine Approach in Drug Discovery. Aakanksha Agarwal, Sujata Sangam, **Monika Prakash Rai** & Monalisa Mukherjee.
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