

# List of publications from Biology and Biotech lab, WRTC, CDA (Dr. Gurdeep Rastogi)

## 2023

1. Book title “Applications of Metagenomics” Chapter : “Genomic approaches for the investigation of seagrass rhizosphere microbiome and bioprospecting potential: a field study from Chilika Lagoon, Odisha, India”. (Accepted in ELSEVIER press).
2. Book title "Microbial Diversity in the Genomic Era” Chapter : "Planktonic and Benthic Archaea in Brackish Coastal Lagoons; a Case Study using High-throughput Amplicon Sequencing from Chilika Lagoon, Odisha, India" (Accepted in ELSEVIER press).
3. Mohapatra, M., Manu, S., Kim, J.Y. and Rastogi, G., 2023. Distinct community assembly processes and habitat specialization driving the biogeographic patterns of abundant and rare bacterioplankton in a brackish coastal lagoon. *Science of The Total Environment*, 879, p.163109. <https://doi.org/10.1016/j.scitotenv.2023.163109>. Impact factor : 10.75
4. Tarafdar, L., Mohapatra, M., Muduli, P.R., Kumar, A., Mishra, D.R. and Rastogi, G., 2023. Co-occurrence patterns and environmental factors associated with rapid onset of *Microcystis aeruginosa* bloom in a tropical coastal lagoon. *Journal of Environmental Management*, 325, p.116580. <https://doi.org/10.1016/j.jenvman.2022.116580>. Impact factor : 8.91

## 2022

5. Mohapatra M, Manu S, Dash SP, Rastogi G (2022). Seagrasses and local environment control the bacterial community structure and carbon substrate utilization in brackish sediments. *Journal of Environmental Management*, 314, 115013. Elsevier Press. <https://doi.org/10.1016/j.jenvman.2022.115013>. Impact factor : 8.91
6. Dash SP, Mohapatra M, Rastogi G (2022). Microbial diversity and bioprospecting potential of *Phragmites* rhizosphere microbiome through genomic approaches. In: Verma P, Shah MP (eds) *Bioprospecting of Microbial Diversity: Challenges and Applications in Biochemical Industry, Agriculture and Environment Protection*. pp. 503-528. Elsevier Press. doi: <https://doi.org/10.1016/B978-0-323-90958-7.00024-8>.
7. Srichandan S and Rastogi G (2022). Zooplankton Diversity and Their Spatiotemporal Distribution: An Ecological Assessment from a Brackish Coastal Lagoon, Chilika, Odisha. In: Madhav S, Nazneen S, Singh P (eds) *Coastal Ecosystems*. Coastal Research Library, vol 38. Springer, Cham. pp. 201-238. doi: 10.1007/978-3-030-84255-0\_9. [https://link.springer.com/chapter/10.1007/978-3-030-84255-0\\_9](https://link.springer.com/chapter/10.1007/978-3-030-84255-0_9).
8. Tripathy PK, Mohapatra M, Pattnaik R, Tarafdar L, Panda S, Rastogi G (2022). Macrophyte Diversity and Distribution in Brackish Coastal Lagoons: A Field Survey from Chilika, Odisha. In: Madhav, S., Nazneen, S., Singh, P. (eds) *Coastal Ecosystems*. Coastal Research

Library, vol 38. Springer, Cham. pp. 325-358. doi: 10.1007/978-3-030-84255-0\_14. [https://link.springer.com/chapter/10.1007/978-3-030-84255-0\\_14](https://link.springer.com/chapter/10.1007/978-3-030-84255-0_14).

9. Mohapatra M, Dash SP, Behera P, Panda S, Rastogi G (2022). Sources and Distribution of Fecal Coliforms in the Coastal Environment: A Case Study from Chilika Lagoon, Odisha, India. In: Madhav, S., Nazneen, S., Singh, P. (eds) Coastal Ecosystems. Coastal Research Library, vol 38. Springer, Cham. pp. 23-44. doi: 10.1007/978-3-030-84255-0\_2. [https://link.springer.com/chapter/10.1007/978-3-030-84255-0\\_2](https://link.springer.com/chapter/10.1007/978-3-030-84255-0_2).

## 2021

10. Mohapatra M, Yadav R, Rajput V, Dharne MS, Rastogi G (2021). Metagenomic analysis reveals genetic insights on biogeochemical cycling, xenobiotic degradation, and stress resistance in mudflat microbiome. *Journal of Environmental Management*, 292, p.112738. Elsevier Press : <https://doi.org/10.1016/j.jenvman.2021.112738>. Impact factor : 8.91
11. Tarafdar L, Kim JY, Srichandan S, Mohapatra M, Muduli PR, Kumar A, Mishra DR, Rastogi G (2021). Responses of phytoplankton community structure and association to variability in environmental drivers in a tropical coastal lagoon. *Science of The Total Environment*, 783, p.146873. Elsevier Press. <https://doi.org/10.1016/j.scitotenv.2021.146873>. Impact factor : 10.75
12. Srichandan S, Tarafdar L, Muduli PR, Rastogi G (2021). Spatiotemporal patterns and impact of a cyclone on the zooplankton community structure in a brackish coastal lagoon. *Regional Studies in Marine Science*, 44, p.101743. Elsevier Press. doi: <https://doi.org/10.1016/j.rsma.2021.101743> . Impact factor: 2.16
13. Mishra DR, Kumar A, Muduli PR, Acharyya T, Acharya P, Singh S, Rastogi G (2021). Landfall season is critical to the impact of a cyclone on a monsoon-regulated tropical coastal lagoon. *Science of The Total Environment*, 770, p.145235. Elsevier Press. doi: <https://doi.org/10.1016/j.scitotenv.2021.145235>. Impact factor : 10.75

## 2020

14. Mishra DR, Kumar A, Muduli PR, Equeenuddin S, Rastogi G, Acharyya T, Swain D (2020). Decline in phytoplankton biomass along indian coastal waters due to COVID-19 lockdown. *Remote Sensing*, 12, p.2584. MDPI Press. doi: 10.3390/rs12162584. <https://www.mdpi.com/2072-4292/12/16/2584> Impact factor 4.509.
15. Beaulne JS, Mishra SR, Suar M, Panda AN, Rastogi G, Pattnaik AK, Raina V and Vogel TM (2020). Spatial analysis of bacteria in brackish lake sediment. *International Journal of*

Sediment Research, 35(3), pp.227-236. Elsevier Press. doi: 10.1016/j.ijsrc.2020.01.003. <https://doi.org/10.1016/j.ijsrc.2020.01.003>. Impact factor : 3.259

16. Vennemann T, Decrouy L, Bourgeois G, Delavy K, Ecuyer M, Lange P, Mishra S, Rastogi G, Pattnaik AK, Suar M (2020). Sedimentologic, Chemical, and Isotopic Constraints on the Anthropogenic Influence on Chilika Lake, India. In: Finlayson C., Rastogi G., Mishra D., Pattnaik A. (eds) Ecology, Conservation, and Restoration of Chilika Lagoon, India. Wetlands: Ecology, Conservation and Management, vol 6. Springer, Cham. pp. 95-113. doi: 10.1007/978-3-030-33424-6\_5. [https://link.springer.com/chapter/10.1007/978-3-030-33424-6\\_5](https://link.springer.com/chapter/10.1007/978-3-030-33424-6_5).
17. Srichandan S and Rastogi G (2020). Spatiotemporal Assessment of Phytoplankton Communities in the Chilika Lagoon. In: Finlayson C., Rastogi G., Mishra D., Pattnaik A. (eds) Ecology, Conservation, and Restoration of Chilika Lagoon, India. Wetlands: Ecology, Conservation and Management, vol 6. Springer, Cham. pp. 251-294. doi: 10.1007/978-3-030-33424-6\_11. [https://link.springer.com/chapter/10.1007/978-3-030-33424-6\\_11](https://link.springer.com/chapter/10.1007/978-3-030-33424-6_11).
18. Behera P, Mohapatra M, Rastogi G (2020). Microbial Ecology of Chilika Lagoon. In: Finlayson C., Rastogi G., Mishra D., Pattnaik A. (eds) Ecology, Conservation, and Restoration of Chilika Lagoon, India. Wetlands: Ecology, Conservation and Management, vol 6. Springer, Cham. pp. 399-414. doi: 10.1007/978-3-030-33424-6\_15. [https://link.springer.com/chapter/10.1007/978-3-030-33424-6\\_15](https://link.springer.com/chapter/10.1007/978-3-030-33424-6_15).
19. Pattnaik A, Panda P, Rastogi G (2020). Survey, Characterization, Ecology, and Management of Macrophytes in Chilika Lagoon In: Finlayson C., Rastogi G., Mishra D., Pattnaik A. (eds) Ecology, Conservation, and Restoration of Chilika Lagoon, India. Wetlands: Ecology, Conservation and Management, vol 6. Springer, Cham. doi: [10.1007/978-3-030-33424-6\\_16](https://doi.org/10.1007/978-3-030-33424-6_16).
20. Book Title: Ecology, Conservation, and Restoration of Chilika Lagoon, India (2020). Editors: Finlayson, C.M., Rastogi, G., Mishra, D., Pattnaik, A. (Eds.). Springer ISBN 978-3-030-33423-9. 10.1007/978-3-030-33424-6. eBook ISBN 978-3-030-33424-6. <https://link.springer.com/book/10.1007/978-3-030-33424-6>.
21. Mohapatra M, Behera P, Kim JY, Rastogi G (2020). Seasonal and spatial dynamics of bacterioplankton communities in a brackish water coastal lagoon. Science of the Total Environment, p.134729. Elsevier Press. doi: [10.1016/j.scitotenv.2019.134729](https://doi.org/10.1016/j.scitotenv.2019.134729). Impact factor 7.963.
22. Behera P, Mohapatra M, Kim JY, Rastogi G (2020). Benthic archaeal community structure and carbon metabolic profiling of heterotrophic microbial communities in brackish sediments. Science of the Total Environment, p.135709. Elsevier Press. doi: [10.1016/j.scitotenv.2019.135709](https://doi.org/10.1016/j.scitotenv.2019.135709). Impact factor : 10.75
23. Pattnaik R, Tarafdard L, Mohapatra M, Behera P, Mohanty P, Rastogi G (2019). Biodiversity of Chilika through the lens of Foldscope. Journal of Emerging Technologies and Innovative Research. 6, 865-874.

## 2019

24. Behera P, Mohapatra M, Kim JY, Adhya TK, Pattnaik AK, Rastogi G (2019). Spatial and temporal heterogeneity in the structure and function of sediment bacterial communities of a tropical mangrove forest. *Environmental Science and Pollution Research*, 26, pp.3893-3908. Springer Berlin Heidelberg Press. doi: [10.1007/s11356-018-3927-5](https://doi.org/10.1007/s11356-018-3927-5). Impact factor 5.19.
25. Rastogi G, Behera P, and Mohapatra M (2019). Genetic Analysis of the Bacterioplankton Biology and Ecology Through Next-Generation High-Throughput Molecular Techniques. In: Das S, Dash HR (eds) *Microbial Diversity in the Genomic Era*, 103-115, Academic Press. doi: [10.1016/B978-0-12-814849-5.00007-1](https://doi.org/10.1016/B978-0-12-814849-5.00007-1).

## 2018

26. Behera P, Mohapatra M, Adhya TK, Suar M, Pattnaik AK, Rastogi G (2018). Structural and metabolic diversity of rhizosphere microbial communities of *Phragmites karka* in a tropical coastal lagoon. *Applied Soil Ecology*. 125, 202-212. doi: [10.1016/j.apsoil.2017.12.023](https://doi.org/10.1016/j.apsoil.2017.12.023). Impact factor : 5.5
27. Behera P, Mahapatra M, Seuylemezian A, Vaishampayan P, Ramana VV, Joseph N, Joshi A, Shouche Y, Suar M, Pattnaik AK, Rastogi G (2018). Taxonomic description and draft genome of *Pseudomonas sediminis* sp. nov., isolated from the rhizospheric sediment of *Phragmites karka*. *Journal of Microbiology*. 56, 458-466. Springer Press. doi: [10.1007/s12275-018-7549-x](https://doi.org/10.1007/s12275-018-7549-x). Impact factor 3.422.

## 2017

28. Behera P, Mahapatra S, Mohapatra M, Kim JY, Adhya TK, Raina V, Suar M, Pattnaik AK, and Rastogi G (2017). Salinity and macrophyte drive the biogeography of the sedimentary bacterial communities in a brackish water tropical coastal lagoon. *Sci. Total Environ*. 595, 472-485. Elsevier Press. doi: [10.1016/j.scitotenv.2017.03.271](https://doi.org/10.1016/j.scitotenv.2017.03.271). Impact factor : 10.75
29. Behera P, Ramana VV, Maharana B, Joseph N, Vaishampayan P, Singh N, Souche Y, Bhaduri P, Mishra S, Raina V, Suar M, Pattnaik AK, and Rastogi G (2017). *Mangrovibacter phragmitis* sp. nov., an endophyte isolated from the roots of *Phragmites karka*. *International Journal of Systematic and Evolutionary Microbiology*, Microbiology Society. doi:[10.1099/ijsem.0.001789](https://doi.org/10.1099/ijsem.0.001789). Impact factor 2.68.

## 2016

30. Behera P, Vaishampayan P, Singh NK, Mishra SR, Raina V, Suar M, Pattnaik AK, Rastogi G (2016). The draft genome sequence of *Mangrovibacter* sp. strain MP23, an endophyte isolated from the roots of *Phragmites karka*. *Genomics Data*, 9, 128-9. Elsevier Press. doi: [10.1016/j.gdata.2016.07.007](https://doi.org/10.1016/j.gdata.2016.07.007).
31. Mishra SR, Ray L, Panda AN, Sahu N, Xess SS, Jadhao S, Suar M, Adhya TK, Rastogi G, Pattnaik AK, Raina V (2016). Draft Genome Sequence of *Acinetobacter* sp. Strain BMW17, a Cellulolytic and Plant Growth-Promoting Bacterium Isolated from the Rhizospheric Region of *Phragmites karka* of Chilika Lake, India. *Genome Announcement*, pii: e00395-16. ASM Press. doi: [10.1128/genomeA.00395-16](https://doi.org/10.1128/genomeA.00395-16).
32. Panda AN, Mishra SR, Ray L, Sahu N, Acharya A, Jadhao S, Suar M, Adhya TK, Rastogi G, Pattnaik AK, Raina V (2016). Draft Genome Sequence of *Halobacillus* sp. Strain KGW1, a Moderately Halophilic and Alkaline Protease-Producing Bacterium Isolated from the Rhizospheric Region of *Phragmites karka* from Chilika Lake, Odisha, India. *Genome Announcements*, pii: e00361-16. ASM Press. doi: [10.1128/genomeA.00361-16](https://doi.org/10.1128/genomeA.00361-16).
33. Mishra SR, Panda AN, Ray L, Sahu N, Mishra G, Jadhao S, Suar M, Adhya TK, Rastogi G, Pattnaik AK, Raina V (2016). Draft Genome Sequence of *Pseudomonas* sp. Strain BMS12, a Plant Growth-Promoting and Protease-Producing Bacterium, Isolated from the Rhizosphere Sediment of *Phragmites karka* of Chilika Lake, India. *Genome Announcements*, pii: e00342-16. ASM Press. doi: [10.1128/genomeA.00342-16](https://doi.org/10.1128/genomeA.00342-16).
34. Ray L, Mishra SR, Panda AN, Das S, Rastogi G, Pattanaik AK, Adhya TK, Suar M, Raina V (2016). *Streptomyces chitinivorans* sp. nov., a chitinolytic strain isolated from estuarine lake sediment. *International Journal of Systematic and Evolutionary Microbiology*, 3241-8. Microbiology Society. doi: [10.1099/ijsem.0.001176](https://doi.org/10.1099/ijsem.0.001176). Impact factor 2.439.
35. Ansari KGMT, Pattnaik AK, Rastogi G, Bhadury P (2016). Multiple Spatial Scale Analysis Provide an Understanding of Benthic Macro-Invertebrate Community Structure Across a Lagoonal Ecosystem. *Wetlands*, 1-11. Springer Press. doi: [10.1007/s13157-016-0866-0](https://doi.org/10.1007/s13157-016-0866-0). Impact factor 2.11.

## 2014

36. Srichandan S, Kim JY, Bhadury P, Barik SK, Muduli PR, Pattnaik AK, Rastogi G (2014). Spatiotemporal distribution and diversity of phytoplankton communities in relation to environmental parameters in the Chilika lagoon, India. *Environmental Monitoring and Assessment*. Springer Press. doi: [10.1007/s10661-014-4212-9](https://doi.org/10.1007/s10661-014-4212-9). Impact factor 2.513.
37. Ray L, Mishra SR, Panda AN, Rastogi G, Pattanaik AK, Adhya TK, Suar M, Raina V (2014). *Streptomyces barkulensis* sp. nov., isolated from an estuarine lake. *International Journal of Systematic and Evolutionary Microbiology*. 64:1365-72. Microbiology Society. Doi : <https://doi.org/10.1099/ijms.0.056614-0>. Impact factor 2.439.

## List of publications from Chemistry and Instrument lab, WRTC, CDA (Dr.Pradipta R. Muduli)

### 2023

1. Prasannajit Acharya, Pradipta R. Muduli, Mira Das, Assessment of heavy metal accumulation in *Penaeus monodon* and its human health implications, *Marine Pollution Bulletin*, Volume 188, 2023, 114632, <https://doi.org/10.1016/j.marpolbul.2023.114632>. Impact factor : 7.001
2. Acharya, P., Muduli, P. R., & Das, M. (2023). Eutrophication Modeling of Chilika Lagoon Using an Artificial Neural Network Approach. In *Ecosystem and Species Habitat Modeling for Conservation and Restoration* (pp. 541-570). Singapore: Springer Nature Singapore. ([https://link.springer.com/chapter/10.1007/978-981-99-0131-9\\_27](https://link.springer.com/chapter/10.1007/978-981-99-0131-9_27) )
3. Pradipta R. Muduli, Manas Barik. 2023. Methods of CO<sub>2</sub> estimation and understanding the carbon biogeochemistry: A case study of Chilika lagoon. Book 'Biogeochemistry of the Coastal Indian Ocean. Edited by Punyasloke Bhadury. Under production by Springer Nature and constitutes part of the Springer Monograph Series AEONS (Atmosphere, Earth, Ocean and Space).

### 2022

4. Muduli, P. R., Barik, M., Acharya, P., Behera, A. T., & Sahoo, I. B. (2022). Variability of Nutrients and Their Stoichiometry in Chilika Lagoon, India. *Coastal Ecosystems: Environmental importance, current challenges and conservation measures*, 139-173. ([https://link.springer.com/chapter/10.1007/978-3-030-84255-0\\_7](https://link.springer.com/chapter/10.1007/978-3-030-84255-0_7))
5. Acharya, P., Muduli, P.R., Mishra, D.R., Kumar, A., Kanuri, V.V. and Das, M., 2022. Imprints of COVID-19 lockdowns on total petroleum hydrocarbon levels in Asia's largest brackish water lagoon. *Marine Pollution Bulletin*, 174, p.113137. (<https://doi.org/10.1016/j.marpolbul.2021.113137>). Impact factor : 7.001
6. Muduli, P. R., Barik, M., Nanda, S., & Pattnaik, A. K. (2022). Impact of extreme events on the transformation of hydrological characteristics of Asia's largest brackish water system, Chilika Lake. *Environmental Monitoring and Assessment*, 194(9), 668. (<https://doi.org/10.1007/s10661-022-10306-2>). Impact factor : 3.307
7. Muduli, P.R., Acharya, P., Behera, A.T. et al. Long-term variation of CO<sub>2</sub> flux and the controlling factors in Asia's largest brackish water system, Chilika Lake. *Int. J. Environ. Sci.*

Technol. 19, 11513–11522 (2022). <https://doi.org/10.1007/s13762-021-03725-0> . Impact factor : 3.519

8. Prasannajit Acharya, Pradipta R. Muduli, Mira Das, Arabinda Mahanty, Fatty acid, proximate composition and mineral content of *Tenuulosa* sp. from east coast of India, *Food Chemistry Advances*, Volume 1, 2022, 100121,ISSN 2772-753X, <https://doi.org/10.1016/j.focha.2022.100121>. Impact factor : 8.8

9. Vaibhav Garg, Pankaj R. Dhote, Pradipta R. Muduli, Praveen K. Thakur, Bhaskar R. Nikam, S.P. Aggarwal, Spatial spectral contextual image analysis approach to map water quality of inland waterbody using AVIRIS-NG datasets, *Advances in Space Research*, 2022, ISSN 0273-1177,<https://doi.org/10.1016/j.asr.2022.09.012>. Impact factor : 2.611

## 2021

10. D R Mishra, A Kumar, PR Muduli, T Acharyya, P Acharya, S Singh, ... (2021). Landfall season is critical to the impact of a cyclone on a monsoon-regulated tropical coastal lagoon. *Science of The Total Environment* 770, 145235. <https://doi.org/10.1016/j.scitotenv.2021.145235>. Impact factor : 10.75

11. Ali, S. M., Gupta, A., Raman, M., Sahay, A., Motwani, G., Muduli, P. R., ... & Tirkey, A. (2021). Improved estimates of bio-optical parameters in optically complex water using hyperspectral remote sensing data. *International Journal of Remote Sensing*, 42(8), 3056-3073. <https://doi.org/10.1080/01431161.2020.1865585>. Impact factor : 3.531

12. Acharya, P., Muduli, P. R., Das, M., & Mishra, A. K. (2021). Assessment of total petroleum hydrocarbon accumulation in crabs of chilika Lagoon, India. In *Coastal Ecosystems: Environmental importance, current challenges, and conservation measures* (pp. 285-303). Cham: Springer International Publishing. ([https://link.springer.com/chapter/10.1007/978-3-030-84255-0\\_12](https://link.springer.com/chapter/10.1007/978-3-030-84255-0_12) )

## 2020

13. Muduli P.R., Pattnaik A.K. (2020) Spatio-Temporal Variation in Physicochemical Parameters of Water in the Chilika Lagoon. In: Finlayson C., Rastogi G., Mishra D., Pattnaik A. (eds) *Ecology, Conservation, and Restoration of Chilika Lagoon, India. Wetlands: Ecology, Conservation and Management*, vol 6. Springer, Cham ([https://link.springer.com/chapter/10.1007/978-3-030-33424-6\\_9](https://link.springer.com/chapter/10.1007/978-3-030-33424-6_9) )

14. Kumar, R., Pujari, P.R., Chauhan, P., Agarwal, S.P., Jain, S.K., Jain, S., Elango, L., Muduli, P.R., Padmakar, C., Deshpande, L., Kapley, A., Vijay, R., Dhyani, S., Verma, P., (2020). *Environmental Science and Remote Sensing Applications in Hydrological Studies*. Proc. Indian Natl. Sci. Acad. 86, 495–501. (doi:10.16943/ptinsa/2020/49803)

## 2019

15. Mukherjee R, Muduli, P. R., Barik S, Kumar S., Sources and transformations of organic matter in sediments of Asia's largest brackish water lagoon (Chilika, India) and nearby mangrove ecosystem (2019). *Environmental earth sciences*, 78:332. (<https://doi.org/10.1007/s12665-019-8329-6>). Impact factor : 3.119
16. A Sahay, A Gupta, G Motwani, ....P.R.Muduli, R.N. Samal. 2019. Distribution of coloured dissolved and detrital organic matter in optically complex waters of Chilika lagoon, Odisha, India, using hyperspectral data of AVIRIS-NG; *Current science*. 116 (7), 1166-1171. (<https://www.jstor.org/stable/27138008>). Impact factor : 1.169
17. Mukherjee, R., Kumar, S., & Muduli, P. R. (2019). Spatial variation of nitrogen uptake rates in the largest brackish water lagoon of Asia (Chilika, India). *Estuarine, Coastal and Shelf Science*, 216, 87-97. (<https://doi.org/10.1016/j.ecss.2018.01.012>). Impact factor : 3.229

## 2018

18. Barik, S.K., Muduli, P.R., Mohanty, B., Rath, P., Samanta, S., (2018). Spatial distribution and potential biological risk of some metals in relation to granulometric content in core sediments from Chilika Lake, India. *Environ. Sci. Poll. Res.* 25, 572-587. (<https://doi.org/10.1007/s11356-017-0421-4>) Impact factor : 5.19
19. Mahapatro, D., Karna, S.K., Mohanty, S.K., Mohanty, B., Muduli, P.R., Pattnaik, A.K., Nanda, S., (2018). First record of a burrowing mole crab *Emerita emeritus* (Decapoda: Anomura: Hippidae) from Chilika Lake, East coast of India. *Ind. J. Geo Mar. Sci.* 47, 109-113. (<http://nopr.niscpr.res.in/handle/123456789/43448>) Impact factor : 0.553

## 2017

20. Mohanty, B., Muduli, P. R., Cooper, G., Barik, S. K., Mahapatro, D., Behera, A. T., and Pattnaik, A. K. (2017). Sources and Variability of Petroleum Hydrocarbon Residues in Sediments of Chilika Lagoon, East Coast of India. *Bull. Environ. Contam. Toxicol.*, 99, 100-107. (<https://doi.org/10.1007/s00128-017-2057-y>) Impact factor : 2.807
21. Barik, S. K., Muduli, P. R., Mohanty, B., Behera, A. T., Mallick, S., Das, A., Samal, R.N., Rastogi, G., Pattnaik, A. K. (2017). Spatio-temporal variability and the impact of Phailin on water quality of Chilika lagoon. *Cont. Shelf Res.*, 136, 39-56. (<https://doi.org/10.1016/j.csr.2017.01.019>) Impact factor: 2.629
22. Muduli PR et al (2017) The Impact of Tropical Cyclone 'Phailin' on the Hydrology of Chilika Lagoon, India. *Int J Environ Sci Nat Res.* 4(2): 555632. DOI: 10.19080/IJESNR.2017.04.555632

23. Parida, S., Barik, S. K., Mohanty, B., Muduli, P. R., Mohanty, S. K., Samanta, S., & Pattanaik, A. K. (2017). Trace metal concentrations in euryhaline fish species from Chilika lagoon: human health risk assessment. *International Journal of Environmental Science and Technology*. <http://doi.org/10.1007/s13762-017-1334-y>. Impact factor :3.519
24. Garg V, Kumar AS, Aggarwal SP, Kumar V, Dhote PR, Thakur PK, Nikam BR, Sambare RS, Siddiqui A, Muduli PR, Rastogi G. Spectral similarity approach for mapping turbidity of an inland waterbody. *Journal of hydrology*. 2017 Jul 1;550:527-37. (<https://doi.org/10.1016/j.jhydrol.2017.05.039>) Impact factor :6.708

## 2016

25. Mohanty, Bitu, Pradipta Ranjan Muduli, Alaya Tarak Behera, Debasish Mahapatro, Saroja Kumar Barik, Subir Kumar Nag, Rabindro Nath Samal, and Ajit Kumar Pattnaik. "Assessment of petroleum hydrocarbon in a tropical brackish water lagoon: Chilika, India." *Chemistry and Ecology* 32, no. 7 (2016): 653-668. (<https://doi.org/10.1080/02757540.2016.1177521>) Impact factor: 2.381
26. Kim, Ji Yoon, Krupasindhu Bhatta, Gurdeep Rastogi, Pradipta R. Muduli, Yuno Do, Dong-Kyun Kim, Ajit K. Pattnaik, and Gea-Jae Joo. "Application of multivariate analysis to determine spatial and temporal changes in water quality after new channel construction in the Chilika Lagoon." *Ecological Engineering* 90 (2016): 314-319. (<https://doi.org/10.1016/j.ecoleng.2016.01.053>) Impact factor:4.379