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A: Appendix

List of conferences

1. **Maurya, K. L.**, Swain, G., Sonwani, R. K., Verma, A., & Singh, R. S. International conference New Horizons in Biotechnology (NHBT-2019). Trivandrum, Kerala India, November 20-24 2019- **Poster presentation.**
2. **Maurya, K. L.**, Swain, G., Sonwani, R. K., Verma, A., & Singh, R. S. International Conference on Biotechnology for Sustainable Agriculture, Environment and Health (BSAEH – 2021) Jaipur, Rajasthan, India April 4 - 8, 2021- **Oral presentation.**
3. **Maurya, K. L.**, Swain, G., Sonwani, R. K., Verma, A., & Singh, R. S. International Conference on Biotechnology for Resource Efficiency, Energy, Environment, Chemicals and Health (BREEECH 2021). Dehradun, India during December 1-4, 2021-**Oral Presentation.**
4. **Maurya, K. L.**, Swain, G., M. Kumar, Sonwani, R. K., Verma, A., & Singh, R. S. International conference on technological interventions for sustainability MNNIT ALLAHABAD during April 14-16, 2022- **Oral Presentation .**
5. **Maurya, K. L.**, Swain, G., M. Kumar, Sonwani, R. K., Verma, A., & Singh, R. S. International Conference on Biotechnology for Sustainable Bioresources and Bio-economy (BSBB-2022) Matrika Auditorium, SMVDU, Katra, India - 182320. During 3- 5 Dec-22- **Oral Presentation.**

B: Appendix

List of Workshop

1. Recent trends in advanced oxidation process for wastewater treatment organized by parul university Gujarat - 25th September 2021.
2. Green and sustainable technologies initiatives at IIT BHU Varanasi- 26th November 2022.

C: Appendix

List of Publication papers:

1. **Maurya, K. L.**, Swain, G., Sonwani, R. K., Verma, A., & Singh, R. S. (2021). Bioremediation of Congo red in an anaerobic moving bed bioreactor: Process optimization and kinetic modeling. *Bioresource Technology Reports*, 100843
2. **Maurya, K. L.**, Swain, G., Sonwani, R. K., Verma, A., & Singh, R. S. (2022). Biodegradation of Congo red dye using polyurethane foam-based biocarrier combined with activated carbon and sodium alginate: Batch and continuous study. *Bioresource Technology*, 351, 126999.
3. **Maurya, K. L.**, Swain, G., Kumar, M., Sonwani, R. K., Verma, A., & Singh, R. S. (2023). Biodegradation of Congo Red Dye Using *Lysinibacillus* Species in a Moving Bed Biofilm

Reactor: Continuous Study and Kinetic Evaluation. *Applied Biochemistry and Biotechnology*, 1-13.

4. **Maurya, K. L.**, Kumar, M., Sonwani, R. K., Jaiswal, V. K., Verma, A., & Singh, R. S. (2023). Enhancement of azo dye bioremediation using chemically modified polypropylene biocarrier: Comparative analysis and kinetic modeling. *Bioresource Technology Reports*, 101375
5. Swain, G., **Maurya, K. L.**, Sonwani, R. K., Singh, R. S., Jaiswal, R. P., & Rai, B. N. (2022). Effect of mixing intensity on biodegradation of phenol in a moving bed biofilm reactor: Process optimization and external mass transfer study. *Bioresource Technology*, 351, 126921.
6. Swain, G., **Maurya, K. L.**, Kumar, M., Sonwani, R. K., Singh, R. S., Jaiswal, R. P., & Nath Rai, B. (2022). The Biodegradation of 4-Chlorophenol in a Moving Bed Biofilm Reactor Using Response Surface Methodology: Effect of Biogenic Substrate and Kinetic Evaluation. *Applied Biochemistry and Biotechnology*, 1-19.
7. Jaiswal, V. K., **Maurya, K. L.**, Sonwani, R. K., & Singh, R. S. (2023). Biodegradation of p-cresol by *Serratia marcescens* strain HL 1 in batch system: Process optimization, growth kinetic study, phytotoxicity and chlorophyll assessment. *Bioresource Technology Reports*, 22, 101426