


NAME	Dr. Amit Kumar Chaurasia		
DESIGNATION	Assistant Professor-I		
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CONTACT NUMBER	91-9415853361, +91-7500012557		
RESEARCH INTERESTS	Microbial Electrolysis Cell, Cathode enzyme/catalysts, Development, Waste to Energy Conversion, resources recovery from waste.		
EDUCATIONAL QUALIFICATIONS:			
Name of College / University	Degree	Year	
UPTU Lucknow	B. Tech (Biotechnology)	2011	
NIT Jalandhar	M. Tech (Chemical Engineering)	2015	
IIT Roorkee	Ph.D. (Chemical Engineering)	2021	
Title of Ph.D. thesis: Biohydrogen Production Using Electrodeposited Cathodes in Microbial Electrolysis Cells			
EXPERIENCE (in chronological order): Total 20 Years Research & Teaching			
Designation	Type of post held (teaching/ research)	Name of the Institute	Year (From – To)
Assistant Professor	Teaching/research	Amity Institute of Biotechnology, Amity University Uttar Pradesh , Noida, 201303, India	18/01/2024 to till date
Assistant Professor	Teaching/research	MVJ College of Engineering, Bangalore, India	18/07/2022-07/01/2023
Research Associate	Research	Alchemi Carbons Noida, India	10/12/2018-25/03/2022
Teaching assistant	Teaching assistant (3 Courses, 40h, 2 credit)	NPTEL-IITR	2017-2019
Lab Processing Executive	Research	Thyrocare Technologies Limited Navi Mumbai	24/12/2012-30/07/2013
Science communicator	Teaching	VASCSC Ahmadabad Gujarat	27/05/2012-22/12/2012
No. of Ph.D. students supervised	Nil		
	Nil		
No. of Post-Doc	Nil		
No. of M.Tech/M Sc Students supervised:	03 ongoing		
No. of B.Tech./B Sc Students supervised:	04 awarded & 6 ongoing		

PUBLICATIONS
(mention total no. here)

Details:

1. Rani, M., Shanker, U. and **Chaurasia, A.K.**, 2017. Catalytic potential of laccase immobilized on transition metal oxides nanomaterials: degradation of alizarin red S dye. **Journal of environmental chemical engineering**, 5(3), pp.2730-2739.
<https://doi.org/10.1016/j.jece.2017.05.026>
2. **Chaurasia, A.K.**, Goyal, H. and Mondal, P., 2020. Hydrogen gas production with Ni, Ni–Co and Ni–Co–P electrodeposits as potential cathode catalyst by microbial electrolysis cells. **International Journal of Hydrogen Energy**, 45(36), pp.18250-18265.
<https://doi.org/10.1016/j.ijhydene.2019.07.175>
3. **Chaurasia, A.K.** and Mondal, P., 2021. Enhancing biohydrogen production from sugar industry wastewater using Ni, Ni–Co and Ni–Co–P electrodeposits as cathodes in microbial electrolysis cells. **Chemosphere**, 286(3), pp.131728.
<https://doi.org/10.1016/j.chemosphere.2021.131728>
4. **Chaurasia, A.K.**, Ravi Shankar and P. Mondal, 2021. Effects of Ni, Ni-Co and Ni-Co-P electrodeposits as cathodes for enhancing hydrogen production in MEC using real paper industry effluent. **Journal of Environmental Management**, (298) 113542.
<https://doi.org/10.1016/j.jenvman.2021.113542>
5. **Chaurasia, A.K.**, Puneet Siwach, Ravi Shankar, and Prasenjit Mondal. 2021. Effect of pre-treatment on mesophilic anaerobic co-digestion of fruit, food and vegetable waste. **Clean Technologies and Environmental Policy**, 1-14.
<https://doi.org/10.1007/s10098-021-02218-5>
6. **Chaurasia, A.K.**, Puneet Siwach, and Prasenjit Mondal. 2021. Effectiveness of the pretreatment methods on mesophilic anaerobic co-digestion of fruit, food and vegetable waste.
<https://doi.org/10.21203/rs.3.rs-157978/v1>
7. **Chaurasia, A.K.**, Thakur, L. S., The Role of Bio-Electrochemical System for Hydrogen Generation. *Progress Petrochem Sci.* 4(3). PPS. 000589. 2022.
<https://doi.org/10.31031/PPS.2022.04.000589> (ISSN: 2637-8035)
8. Thakur, L. S., Parmar, H., Varma, A. K., **Chaurasia, A. K.**, & Mondal, P. (2022). Removal of manganese from synthetic wastewater by *Vetiveria zizanioides*. **Materials Today: Proceedings**. <https://doi.org/10.1016/j.matpr.2022.08.395>
9. Kachroo H., **Chaurasia A.K.**, Chaurasia S.K., Yadav V.K. (2022) Sustainable Clean Energy Production from the Bio-electrochemical Process Using Cathode as Nanocatalyst. In: Shanker U., Hussain C.M., Rani M. (eds) **Handbook of Green and Sustainable Nanotechnology**. Springer, Cham.
https://doi.org/10.1007/978-3-030-69023-6_58-1
10. **Chaurasia, A.K.**, Mohapatra, S., Shankar, R. and Thakur, L.S., 2022. Technologies for the Clean and Renewable Energy Production for the Sustainable Environment. In *Clean Technologies and Sustainable Development in Civil Engineering* (pp. 141-178). IGI Global.
<https://doi.org/10.4018/978-1-7998-9810-8.ch007>
11. **Chaurasia, A.K.** and Mondal, P. 2021. Hydrogen production from waste and renewable resources." In *Hydrogen Fuel Cell Technology for Stationary Applications*, 22-46. **IGI Global**.
<https://doi.org/10.4018/978-1-7998-4945-2.ch002>
12. A. Kadier, **Chaurasia, A.K.**, S.M. Sapuan, R.A. I, Jayesh M. Sonawane, M. S Kalil, P. K. Rai, W. Logroño, H. A. Hasan and A. A. Hamid. 2020. Essential Factors for Performance Improvement and the Implementation of Microbial Electrolysis Cells (MECs), **Springer**, Singapore, pp. 139-168.
https://doi.org/10.1007/978-981-15-6872-5_7

	<p>13. Shankar, R., Pathak, N., Chaurasia, A. K., Mondal, P., & Chand, S. 2017. Energy Production through Microbial Fuel Cells. Sustainable Utilization of Natural Resources, 353. https://doi.org/10.1201/9781315153292</p> <p>14. Mondal, P., Kumari, P., Singh, J., Verma, S., Chaurasia, A. K., & Singh, R. P. 2017. Oil from Algae. Sustainable Utilization of Natural Resources, 213. https://doi.org/10.1201/9781315153292</p>
PATENTS (<i>total no.</i>)	Chaurasia, A.K. Johri, P, “A portable assembly for providing treatment of hazardous material in oxygen rich environment and method thereof” Patent no. 451658 (Granted on 15 th September 2023).
RESEARCH PROJECTS Completed: (<i>total no.</i>) Ongoing: (<i>total no.</i>)	<i>Details: Nil</i>
AWARDS & HONOURS/ DISTINCTIONS	<p><i>Details:</i></p> <ul style="list-style-type: none"> ➤ Technical Committee member at ICCBS2023, Japan ➤ Selected as institute Postdoctoral Fellow at IIT Kanpur. ➤ A Grade in PhD Thesis from Examiner (France), 2021 ➤ Amit Kumar Chaurasia, P. Mondal, Best Oral Awards on “Simultaneousin MEC”, CCC, 12-13 October 2019, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar Indian. ➤ Got financial support from SERB-DST Govt. of India, to participate in "3rd International Symposium on Sustainable Hydrogen, Algiers Algeria (27-28 November 2019). ➤ Got financial support from IIT Roorkee India-Alumni, to participate in International Conference (SEGT-2019) in Bangkok, Thailand in 2019. ➤ Received Institute Fellowship by IIT Roorkee for pursuing Doctor of Philosophy (2015-2020). ➤ Received GATE Fellowship to pursue M. Tech (July 2013 to June 2015). ➤ Qualified GATE 2013 in Biotechnology with Gate Score 343.
MEMBERSHIP with Professional/ Academic bodies	<p><i>Details:</i></p> <ul style="list-style-type: none"> ➤ Managing Editor of Journal of Biomedical and Life Sciences since 2022. https://www.scipublications.com/journal/index.php/jbls/editors ➤ Editorial member of Advances in Bioscience and Bioengineering journal since 2022. ➤ Senior Member of Hong Kong Chemical, Biological & Environmental Engineering Society (HKCBEES: 101865). ➤ Member of International Chemical Biology Society, USA since 2021 (https://www.chemical-biology.org/members/) ➤ Session Chair, Scientific and organizing member at 9th ICCBS 2022, Tokyo, Japan. ➤ Scientific and organizing committee member at ICRS,22, Istanbul, Turkey

