


<b>NAME</b>	Dr. Amit Kumar Chaurasia		
<b>DESIGNATION</b>	Assistant Professor-I		
<b>EMAIL ID</b>	akchaurasia@amity.edu		
<b>CONTACT NUMBER</b>	91-9415853361, +91-7500012557		
<b>RESEARCH INTERESTS</b>	Hydrogen production, Fuel cells Technologies, Cathode enzyme/catalysts, synthesis, characterization and development, Waste to Energy Conversion, resources recovery from waste. Circular bioeconomy		
<b>EDUCATIONAL QUALIFICATIONS:</b>			
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: <b>Biohydrogen Production Using Electrodeposited Cathodes in Microbial Electrolysis Cells</b>			
<b>EXPERIENCE (in chronological order): Total 4 Years Research &amp; Teaching</b>			
Designation	Type of post held (teaching/ research)	Name of the Institute	Year (From – To)
Assistant Professor	Teaching/research	Amity Institute of Biotechnology, <b>Amity University Uttar Pradesh</b> , Noida, 201303, India	18/01/2023 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	23/09/2021-17/07/2022
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
<b>No. of Ph.D. students supervised</b>	Nil		
<b>No. of Post-Doc</b>	Nil		
<b>No. of M.Tech/M Sc Students supervised:</b>	03 ongoing		
<b>No. of B.Tech./B Sc Students supervised:</b>	04 awarded & 6 ongoing		

<p><b>Subject Taught:</b></p>	<p>Applied Chemistry Environmental Biotechnology Professional Ethics and Social Responsibility Quality Control Biologist 1&amp;2 Pharmaceutical Management Basic Pharmacology and Immunology Biochemical and Molecular Diagnostics in Health Care Economics for engineers Environmental Biology, Environmental Studied, Environmental biotechnology Environmental Toxicological Studies Fundamentals &amp; Applications of Pharmaceutical Biotechnology</p>
<p><b>PUBLICATIONS</b> (mention total no. here)</p>	<p><b>Details:</b></p> <ol style="list-style-type: none"> <li>1. Rani, M., Shanker, U. and <b>Chaurasia, A.K.</b>, 2017. Catalytic potential of laccase immobilized on transition metal oxides nanomaterials: degradation of alizarin red S dye. <b>Journal of environmental chemical engineering</b>, 5(3), pp.2730-2739. <a href="https://doi.org/10.1016/j.jece.2017.05.026">https://doi.org/10.1016/j.jece.2017.05.026</a></li> <li>2. <b>Chaurasia, A.K.</b>, 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. <b>International Journal of Hydrogen Energy</b>, 45(36), pp.18250-18265. <a href="https://doi.org/10.1016/j.ijhydene.2019.07.175">https://doi.org/10.1016/j.ijhydene.2019.07.175</a></li> <li>3. <b>Chaurasia, A.K.</b> 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. <b>Chemosphere</b>, 286(3), pp.131728. <a href="https://doi.org/10.1016/j.chemosphere.2021.131728">https://doi.org/10.1016/j.chemosphere.2021.131728</a></li> <li>4. <b>Chaurasia, A.K.</b>, 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. <b>Journal of Environmental Management</b>, (298) 113542. <a href="https://doi.org/10.1016/j.jenvman.2021.113542">https://doi.org/10.1016/j.jenvman.2021.113542</a></li> <li>5. <b>Chaurasia, A.K.</b>, Puneet Siwach, Ravi Shankar, and Prasenjit Mondal. 2021. Effect of pre-treatment on mesophilic anaerobic co-digestion of fruit, food and vegetable waste. <b>Clean Technologies and Environmental Policy</b>, 1-14. <a href="https://doi.org/10.1007/s10098-021-02218-5">https://doi.org/10.1007/s10098-021-02218-5</a></li> <li>6. <b>Chaurasia, A.K.</b>, Puneet Siwach, and Prasenjit Mondal. 2021. Effectiveness of the pretreatment methods on mesophilic anaerobic co-digestion of fruit, food and vegetable waste. <a href="https://doi.org/10.21203/rs.3.rs-157978/v1">https://doi.org/10.21203/rs.3.rs-157978/v1</a></li> <li>7. <b>Chaurasia, A.K.</b>, Thakur, L. S., The Role of Bio-Electrochemical System for Hydrogen Generation. <i>Progress Petrochem Sci.</i> 4(3). PPS. 000589. 2022. <a href="https://doi.org/10.31031/PPS.2022.04.000589">https://doi.org/10.31031/PPS.2022.04.000589</a> (ISSN: 2637-8035)</li> <li>8. Thakur, L. S., Parmar, H., Varma, <b>A. K.</b>, <b>Chaurasia, A. K.</b>, &amp; Mondal, P. (2022). Removal of manganese from synthetic wastewater by <i>Vetiveria zizanioides</i>. <b>Materials Today: Proceedings</b>. <a href="https://doi.org/10.1016/j.matpr.2022.08.395">https://doi.org/10.1016/j.matpr.2022.08.395</a></li> <li>9. Raheja, Y., Gaur, P., <b>Amit Kumar Chaurasia</b>, Islam, T. <i>et al.</i> Advancement in lignocellulolytic enzyme production: tailored strategies to overcome challenges in biomass hydrolysis. <i>Syst Microbiol and Biomanuf</i> (2025). <a href="https://doi.org/10.1007/s43393-025-00342-7">https://doi.org/10.1007/s43393-025-00342-7</a></li> <li>10. Kachroo H., <b>Chaurasia A.K.</b>, Chaurasia S.K., Yadav V.K. (2022) Sustainable Clean Energy Production from the Bio-</li> </ol>

	<p>electrochemical Process Using Cathode as Nanocatalyst. In: Shanker U., Hussain C.M., Rani M. (eds) <b>Handbook of Green and Sustainable Nanotechnology</b>. Springer, Cham.  <a href="https://doi.org/10.1007/978-3-030-69023-6_58-1">https://doi.org/10.1007/978-3-030-69023-6_58-1</a></p> <ol style="list-style-type: none"> <li>11. <b>Chaurasia, A.K.</b>, 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.  <a href="https://doi.org/10.4018/978-1-7998-9810-8.ch007">https://doi.org/10.4018/978-1-7998-9810-8.ch007</a></li> <li>12. <b>Chaurasia, A.K.</b> and Mondal, P. 2021. Hydrogen production from waste and renewable resources." In Hydrogen Fuel Cell Technology for Stationary Applications, 22-46. <b>IGI Global</b>.  <a href="https://doi.org/10.4018/978-1-7998-4945-2.ch002">https://doi.org/10.4018/978-1-7998-4945-2.ch002</a></li> <li>13. A. Kadier, <b>Chaurasia, A.K.</b>, 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), <b>Springer</b>, Singapore, pp. 139-168.  <a href="https://doi.org/10.1007/978-981-15-6872-5_7">https://doi.org/10.1007/978-981-15-6872-5_7</a></li> <li>14. Shankar, R., Pathak, N., <b>Chaurasia, A. K.</b>, Mondal, P., &amp; Chand, S. 2017. Energy Production through Microbial Fuel Cells. Sustainable Utilization of Natural Resources, 353.  <a href="https://doi.org/10.1201/9781315153292">https://doi.org/10.1201/9781315153292</a></li> <li>15. Mondal, P., Kumari, P., Singh, J., Verma, S., <b>Chaurasia, A. K.</b>, &amp; Singh, R. P. 2017. Oil from Algae. Sustainable Utilization of Natural Resources, 213.  <a href="https://doi.org/10.1201/9781315153292">https://doi.org/10.1201/9781315153292</a></li> <li>16. Malviya, Pankaj, Anil Kumar Verma, <b>Amit Kumar Chaurasia</b>, Hemant Parmar, Lokendra Singh Thakur, Prashant Kumbhkar, and Palak Shah. "Heavy Metals Contaminants Threat to Environment: It's Possible Treatment." In <i>Transportation Energy and Dynamics</i>, pp. 323-341. Singapore: Springer Nature Singapore, 2023. <a href="https://doi.org/10.1007/978-981-99-2150-8_13">https://doi.org/10.1007/978-981-99-2150-8_13</a></li> <li>17. Maurya, Aarti, and <b>Amit Kumar Chaurasia</b>. "Advances in Fuel Cell Technologies for Hydrogen Production." In <i>Hydrogen Fuel Cell Technology for Mobile Applications</i>, pp. 111-133. IGI Global, 2023. <a href="https://doi.org/10.4018/978-1-6684-6721-3.ch005">https://doi.org/10.4018/978-1-6684-6721-3.ch005</a></li> <li>18. Maurya, Aarti, Ajay Kumar Chohan and <b>Amit Kumar Chaurasia</b>, Futuristic Trends in Renewable &amp; Sustainable" RENEWABLE &amp; SUSTAINABLE ENERGY TECHNOLOGIES", IIP Series, Volume 3, Book 3, Part 8, Chapter 2. <a href="https://www.doi.org/10.58532/V3BIRS3P8CH2">https://www.doi.org/10.58532/V3BIRS3P8CH2</a></li> </ol>
<b>Patent: (01)</b>	<b>Chaurasia, A.K.</b> Johri, P, "A portable assembly for providing treatment of hazardous material in oxygen rich environment and method thereof" Patent no. <b>451658</b> (Granted on 15 <sup>th</sup> September 2023).
<b>RESEARCH PROJECTS</b> Completed: (total no.) Ongoing: (total no.)	<b>Details:</b> <b>Completed: 01</b> ( <a href="https://doi.org/10.1007/978-981-99-2150-8_13">ITS/2019/005093</a> ) <b>Ongoing: 00</b>
<b>AWARDS &amp; HONOURS/ DISTINCTIONS</b>	<b>Details:</b> <ul style="list-style-type: none"> <li>➤ Got best oral presenter in National workshop STAGE-2025, Mohali</li> <li>➤ Delivered <b>expert talk</b> online on " Resources recovery and waste stabilization using biological and bio-electrochemical processes" in FDP Advances in Energy, Environment and Chemical Engineering (AEECE-23)" from 19th to 23rd May 2023 at NIT Jalandhar.</li> <li>➤ Delivered a <b>keynote speaker</b> talk on " Resources</li> </ul>

	<p>recovery and waste stabilization using biological and bio-electrochemical processes" in <b>BIOKRITI-2024 held at Kashi Institute of Technology, Varanasi - India.</b></p> <ul style="list-style-type: none"> <li>➤ Deliver the <b>invited talk</b> in young scientist conference 2023 (<b>9th India international Science Festival 2023</b>) at <b>Thsti, Faridabad.</b></li> <li>➤ Delivered <b>invited talk</b> in 8th international conference in <b>Chalcogen Cycle Science &amp; Technology, Galway, IHE Delft, Netherlands.</b></li> <li>➤ Technical Committee member at ICCBS2023, Japan</li> <li>➤ Selected as <b>an institute Postdoctoral Fellow at IIT Kanpur, 2022.</b></li> <li>➤ <b>A Grade in PhD Thesis</b> from Examiner (France), 2021</li> <li>➤ <b>Amit Kumar Chaurasia, P. Mondal, Best Oral Awards</b> on "Simultaneous ....in MEC", CCC, 12-13 October 2019, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar Indian.</li> <li>➤ Got financial support from <b>SERB-DST Govt. of India</b>, to participate in "3rd International Symposium on Sustainable Hydrogen, <b>Algiers Algeria</b> (27-28 November 2019).</li> <li>➤ Got financial support from <b>IIT Roorkee India-Alumni</b>, to participate in International Conference (SEGT-2019) in Bangkok, Thailand in 2019.</li> <li>➤ Received Institute Fellowship by IIT Roorkee for pursuing Doctor of Philosophy (2015-2020).</li> <li>➤ Received GATE Fellowship to pursue M. Tech (July 2013 to June 2015).</li> <li>➤ Qualified <b>GATE 2013</b> in Biotechnology with Gate Score 343.</li> </ul>
<p><b>MEMBERSHIP</b> with Professional/Academic bodies</p>	<p><b>Details:</b></p> <ul style="list-style-type: none"> <li>➤ <b>Editorial member</b> of "Societal impacts" Journal Elsevier since 2023 <a href="https://www.sciencedirect.com/journal/societal-impacts/about/editorial-board">https://www.sciencedirect.com/journal/societal-impacts/about/editorial-board</a></li> <li>➤ <b>Managing Editor of Journal of Biomedical and Life Sciences</b> since 2022. <a href="https://www.scipublications.com/journal/index.php/jbls/editors">https://www.scipublications.com/journal/index.php/jbls/editors</a></li> <li>➤ <b>Editorial member of Advances in Bioscience and Bioengineering journal</b> since 2022.</li> <li>➤ Senior Member of <b>Hong Kong Chemical, Biological &amp; Environmental Engineering Society (HKCBEEES: 101865).</b></li> <li>➤ Member of <b>International Chemical Biology Society, USA</b> since 2021 (<a href="https://www.chemical-biology.org/members/">https://www.chemical-biology.org/members/</a>)</li> <li>➤ Session Chair, Scientific and organizing member at <b>9th ICCBS 2022, Tokyo, Japan.</b></li> <li>➤ Scientific and organizing committee member at <b>ICRS,22, Istanbul, Turkey</b></li> <li>➤ <b>Session chair</b> in the national conference on the theme</li> </ul>

	<p>“Lab to life: bioengineering solutions for a changing world” in <b>BIOKRITI-2025</b>, India.</p>
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