NAME			Dr Vivek Kumar Gaur		
DESIGNATION			Assistant Professor	1001	
EMAIL ID			vkgaur@amity.edu		
CONTACT NUMBER			9456820482		
RESEARCH INTERESTS			Environmental Biotechnology, Metabolic Engineering and		
			Synthetic Biology		
EDUCATIONAL QUALIFICATIONS: Name of College / University			Degree	Year	
Dr Bhim Rao Ambedkar University			B. Sc Biotechnology	2010	
Hemwati Nandan Bahuguna Garhwal			M. Sc Biotechnology	2013	
University					
Amity Universit	ity (Lucknow Campus))	Ph. D Biotechnology	2021	
EXPERIENCE Designation	(in chronological ord Type of post held (teaching/		l 20 Years Research & Te the Institute	aching Year (From – To)	
	(teaching/ research)				
Assistant	Research and			Oct 2024 to till date	
Professor	Teaching	Institute of Biotechnology, Amity University Uttar Pradesh,			
Research Assistant Professor	Research and Teaching	•••	nd Chemical Engineering,	Jan 2024 to Oct 2024	
Post-Doctoral Researcher	Research and Teaching	UNIST, Ulsan, South Korea Energy and Chemical Engineering, UNIST, Ulsan, South Korea		Dec 2021 to Dec 2023	
CSIR-Senior Research Fellow	Research	Environmental Biotechnology, CSIR- IITR, Lucknow, UP, India		May 2018 to 30 April 2021	
Project Fellow	Research	Environmental Biotechnology, CSIR- IITR, Lucknow, UP, India July 2014 to March 2017			
No. of Ph.D. students supervised		-			
No. of Post-Doc		-			
No. of M.Tech. Students supervised:		-			
No. of B.Tech. Students supervised:		- <i>Details: Selected Publications</i> 1. Gaur, V.K., Gaur, P., Telegin, A., Thakur, R.S., Sharma, P., Gupta, P.,			
PUBLICATIONS (60)		Dhakar, K., Raheja, Y., Srivastava, J.K., Varjani, S. and Wong, J.W., 2024. Unlocking the Potential of Food Waste Chemistry for Biodegradable Plastics Production: Recent Advancements, Perspectives,			

and Life-Cycle Assessment. *Trends in Food Science & Technology*, p.104836. (IF 15.1)

- Gaur, V.K., Nguyen-Vo, T.P., Islam, T., Bassey, B.F., Kim, M., Ainala, S.K., Shin, K. and Park, S., 2024. Efficient bioproduction of poly (3-hydroxypropionate) homopolymer using engineered *Escherichia coli* strains. Bioresource Technology, p.130469. (IF 9.7)
- Regar, R.K., Kamthan, M., Gaur, V.K., Singh, S., Mishra, S., Dwivedi, S., Mishra A., Manickam, N., Nautiyal, C.S., 2024. Microbiome divergence across four major Indian riverine water ecosystem impacted by anthropogenic contamination: A comparative metagenomic analysis. *Chemosphere, 368*, p.143672. (IF 8.1)
- Naseem, M., Verma, P.C., Raghuwanshi, R., Gaur, V.K., Singh, M., Seth, S. and Srivastava, P.K., 2024. Soil Microbiome and its Functional Attributes Under the Gradient of Arsenic Contamination in Paddy Soils. *Water, Air, & Soil Pollution*, 235(9), p.597. (IF 3.8)
- Sharma, P., Gaur, P., Dwivedi, S., Kumari, K., Srivastava, J.K., Dhakar, K., Gaur, V.K.*, Varjani, S., Chang, J.S., Ngo, H.H. and Ng, H.Y., 2024. Harnessing microbial potentials by advancing bioremediation of PAHs through molecular insights and genetics. *International Biodeterioration & Biodegradation*, 194, p.105861. (IF 4.1)
- Tripathi, V., Gaur, V.K., Kaur, I., Srivastava, P.K. and Manickam, N., 2024. Unlocking bioremediation potential for site restoration: A comprehensive approach for crude oil degradation in agricultural soil and phytotoxicity assessment. Journal of Environmental Management, 355, p.120508. (IF 8.0)
- Gautam, K., Sharma, P., Gaur, V.K., Gupta, P., Pandey, U., Varjani, S., Pandey, A., Wong, J.W. and Chang, J.S., 2023. Oily waste to biosurfactant: A path towards carbon neutrality and environmental sustainability. Environmental Technology & Innovation, 30, p.103095. (IF 6.7)
- Gaur, V.K., Tripathi, V., Gupta, P., Thakur, R.S., Kaur, I., Regar, R.K., Srivastava, P.K., Manickam, N., 2023. Holistic approach to waste mobil oil bioremediation: Valorizing waste through biosurfactant production for soil restoration. Journal of Environmental Management, 348,

	119207. (IF 8.0)	
	9. Gaur, V.K., Sirohi, R., Bhat, M.I., Gautam, K., Sharma, P., Srivastava,	
	J.K. and Pandey, A., 2023. A review on the effect of micro-and nano-	
	plastics pollution on the emergence of antimicrobial resistance.	
	Chemosphere, 311, p.136877. (IF 8.0)	
	10. Islam, T., Nguyen-Vo, T.P., Cho, S., Lee, J. Gaur, V.K., and Park, S.,	
	2023. Metabolic engineering of Escherichia coli for enhanced	
	production of 1,3-Butanediol from Glucose. Bioresource Technology,	
	389, 129814. (IF 9.7)	
	11. Bokade, P. [¶] , Gaur, V.K. [¶] , Tripathi, V., Bobate, S., Manickam, N. and	
	Bajaj, A., 2023. Bacterial remediation of pesticide polluted soils:	
	Exploring the feasibility of site restoration. Journal of Hazardous	
	Materials, 441, p.129906. (IF 12.2)	
12. Kaur, I., Gaur, V.K., Rishi, S., Anand, V., Mishra, S.K		
	Patel, A., Srivastava, S., Verma, P.C. and Srivastava, P.K., 2023.	
	Deciphering the kinetics and pathway of lindane biodegradation by	
	novel soil ascomycete fungi for its implication in bioremediation.	
	Bioresource Technology, 387, p.129581. (IF 9.7)	
	13. Tripathi, V., Gaur, V.K., Thakur, R.S., Patel, D.K. and Manickam, N.,	
	2023. Assessing the half-life and degradation kinetics of aliphatic and	
	aromatic hydrocarbons by bacteria isolated from crude oil contaminated	
	soil. Chemosphere, 337, p.139264. (IF 8.0)	
	14. Islam, T., Nguyen-Vo, T.P., Gaur, V.K., Lee, J. and Park, S., 2023.	
	Metabolic engineering of Escherichia coli for biological production of	
	1, 3-Butanediol. Bioresource Technology, 376, p.128911. (IF 9.7)	
	Details: 1. Gaur, V.K., Park, S., 2023. Recombinant Escherichia coli strain	
	producing 3-hydroxypropionate homopolymer polymer with high	
	efficiency and method for producing 3-hydroxypropionate homopolymer	
PATENTS (3)	biodegradable polymer using the same.	
TATEN15 (5)		
	2. Gaur, V.K., Park, S., 2023. Recombinant <i>Escherichia coli</i>	
	strain producing biodegradable polymer $p(3-hydroxypropionate-co-3-$	
	hydroxybutyrate) with high efficiency and method for producing p(3-	
	hydroxypropionate-co-3- hydroxybutyrate) using the same.	

	 Sharma, P., Younis, K., Sharma, S., Vimal, A., Vishvakarma, R., Gaur, V.K., Farooqui, A., 2023. Langenaria Siceraria based low fat functional mayonnaise. 		
RESEARCH PROJECTS Completed: (total no.) Ongoing: (total no.)	Details: Nil		
	 <i>Details:</i> A.P.J Abdul Kalam Best Ph.D. Thesis Award, 2022 from International Society for Energy, Environment and Sustainability. 		
	• Best Oral Presentation Award, 2021 from Centre for Energy and Environmental Sustainability in BRE3CH-2021.		
AWARDS & HONOURS/ DISTINCTIONS	• Best Flash Presentation and Poster Award, 2021 International Conference on Biotechnology for Sustainable Agriculture, Environment and Health (BSAEH-2021).		
	• Young Researcher Award, 2019 for oral presentation in NHBT-2019: International Conference on New Horizons in Biotechnology		
	• International Travel Grant, 2019 from the Department of Science and Technology- Science and Engineering Research Board (DST-SERB), Government of India		
	• Senior Research Fellowship, 2018 from the Council of Scientific and Industrial Research, Delhi, India, April 2018.		
MEMBERSHIP with Professional/ Academic bodies	 <i>Details:</i> 1. Member of International Society for Energy, Environment and Sustainability. 2. Member of Biotech Research Society of India. 3. Member of Association of Microbiologists of India. 		