Dr.Lakhveer Singh(Associate Prof. and Chairman)

Dr.Lakhveer Singh
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Department of Chemistry& Industrial Chemistry

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Web/Researcher Identifier : ORCID: 0000-0002-4926-9778https://scholar.google.com.my/citations?user=TK3C9WEAAAAJ&hl=en

Education: Ph.D.(Chemistry)

Award and Recognition: World's top 2% Scientistlist by Stanford

Others: Post Doc; Oregon State University, USA

Research Interests:

- Electro catalysts development
- Renewable fuel production
- Bioelectrochemical systems
- Environmental remediation (Wastewater treatment)
- Machine learning for sustainable applications

Publications	Books .	Patents	Ph.D students		Projects
			Guided	Pursuing	
110 +	**25**	**3**	**5**	**2**	**10**

Selected Publications:

- Bhujbal, SachinKrushna, Pooja Ghosh, Virendra Kumar Vijay, and **Lakhveer Singh***. "Biomimicry of ruminant digestion strategies for accelerating lignocellulose bioconversion in anaerobic digestion." Trends in Biotechnology 2022, 40, 1401-1404. **ImpactFactor22.0.**
- Thakur, Maheshwar S., Neha Singh, Arti Sharma, Rohit Rana, AR Abdul Syukor,

M. Naushad, Sunil Kumar, Manish Kumar, and **Lakhveer Singh***. "Metal coordinated macrocyclic complexes in different chemical transformations." Coordination Chemistry Reviews 471 (2022): 214739. **ImpactFactor24.58.**

- Naik, TS Sunil Kumar, Simranjeet Singh, N. Pavithra, Radhika Varshney, BasavarajuUppara, Joginder Singh, Nadeem A. Khan, Lakhveer Singh, Muhammad Zulqarnain Arshad, and Praveen C. Ramamurthy. "Advanced experimental techniques for the sensitive detection of a toxic bisphenol A using UiO-66-NDC/GO-based electrochemical sensor." *Chemosphere* (2023): 311,137104. **ImpactFactor8.58.**
- Mishra,Puranjan,JunsangLee,DeepakKumar,RicardoO.Lauro,NazuaCosta,DeepakPathania, Smita Kumar, Jinwoo Lee, and **Lakhveer Singh***. "Engineered Nanoenzymes withMultifunctionalPropertiesforNext-GenerationBiologicalandEnvironmentalApplications."*Advanced Functional Materials*(2022):
- Mahapatra, Durga Madhab, Puranjan Mishra, Sveta Thakur, and **Lakhveer Singh***. "Leveragingartificial intelligence in bioelectrochemical systems." *Trends in Biotechnology* (2022). **40, 535-538.ImpactFactor22.50.**

- Nasrullah, Mohd, Sabah Ansar, Santhana Krishnan, Lakhveer Singh, ShaikGousePeera,andA.W.Zularisam."Electrocoagulationtreatmentofrawpalmoilmilleffluent:Optimization process using high current application." **Chemosphere** 299 (2022): 134387.**I.F.8.94**
- **LakhveerSingh**,AndrewG.Miller,LuguangWang,andHongLiu."Scaling-upUp-flowMicrobial Electrolysis Cells with a Compact Electrode Configuration for Continuous HydrogenProduction."BioresourceTechnology(2021): 125030.**(I.F. 11.88)**
- **Lakhveer Singh*,** Supriyanka Rana, Sveta Thakur, Deepak Pant, **(2020)**, Bioelectrofuelsynthesis by nanoenzyme: A novel alternative to conventional enzymes. Accepted in**Trends in Biotechnology 38, 469-473. (I.F. 22.55).**

- Luguang Wang, Ye Chen, Fei Long**, Lakhveer Singh**, Stephani Trujillo, Xiang Xiao, HongLiu.(2020).BreakingtheLoop:TacklingHomoacetogenesisbyChloroformtoHaltHydrogenProduction-ConsumptionLoopinSingleChamberMicrobialElectrolysisCells.**ChemicalEngineeringJournal**. 389.124436. **I.F.16.74.**

- Andrew Miller, **Lakhveer Singh**, Luguang Wang, Hong Liu (2019). A Direct ExperimentalComparisonofMethodstoReduceLimitationinMicrobialElectrolysisCellsforHighPerformance.**Environmental International.**126. 611-618.I.F.13.35
- Wang, Kai, Ding Yang Wang, Meng Zhu Wang, Xin Xin Dan, Li Ming Che, Hui HuangXu,HuaZhou,HongLiu,**LakhveerSingh***,andXueE.Wu.(2020)."Functionalphotothermal sponges for efficient solar steam generation and

accelerated cleaning ofviscous crude-oil spill." Solar Energy Materials and Solar Cells 204 (2020): 110203. **I.F.7.30.**

- Sandeep K. Malyan, Smita S. Kumar, Ram KishorFagodiya, Pooja Ghosh, Amit Kumar, RajeshSingh, **Lakhveer Singh* (2021).** Biochar for Environmental Sustainability in the Energy-Water-Agroecosystem Nexus. Renewable and Sustainable energy review. 149, 111379. **Impact Factor16.79.**