



1. Name : Dr J Ranjitha
 2. Highest Qualification(s) : M.Tech., Ph.D., Renewable Energy
 3. Post-Doctoral Experience(s) : -

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4. Google Scholar : VytiiloAAAAJ&hl
 5. Group Webpage : -
 6. Research fields : Bioenergy, CO₂ Fixation, and Bioremediation
 7. Collaboration : NITs, IITs, International Universities

National	IIT Delhi, IIT Kanpur, IIT Madras, IIT Guwahati, IISC Bangalore, NIT Jamshedpur, Jalandhar, Durgapur, etc.
International	Wayne State University, Arizona State University, University of Malaya, Sun Yat-Sen University, Santa Catarina State University, National University of Science and Technology, etc.

8. Prize/Fellowships/Awards/Patents : 15

Prize	Research Prize Award 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
Fellowships	Women Scientist Fellowship DBT 2014
Awards	Women Achiever Award 2020 Early Career Women Scientist Award 2014 Young Scientists Award 2015
Patents	Filed/Published/Grant: IP -4

9. Membership :

i)	Member in the Association of Energy Engineers
ii)	Member in Society of Energy Engineers and Managers
iii)	Member in The Institution of Engineering and Technology

10. Invited Talk : 11

11. Funded Projects/Consultancy : Ongoing: 1 Completed: 3

Ongoing	Bioconversion of CO ₂ to Biofuels through Microbial Catalyzed Systems
Completed	1. Carbon Sequestration and Enzymatic Transesterification of Micro Algal Lipid using Lipase Immobilized on Magnetic Nanoparticles 2. Molecular Modeling and Biosynthesis of Bioactive Compounds from Marine Algae and its Industrial Applications 3. Biosynthesis and Characterization of <i>Mycobacterium smegmatis dehydroquinase synthase</i> and its Industrial Applications.

12. Ph.D. students : Ongoing: 5 Completed: 4

13. Graduate projects : Ongoing: B.Tech., 4 Completed: B.Tech., 73 M.Tech., 19

14. Selected publications :

i)	M. Nanda, Fábio de Farias Neves, J. Ranjitha , Makhail. Vlaskin, Anatoly V. Grigorenko, P.K. Chauhan, Vinod Kumar. A sustainable approach to produce yeast lipid by utilizing marine macroalgae biomass., 338, 15, 2023, 127214., https://doi.org/10.1016/j.fuel.2022.127214 .
ii)	G.Rajivgandhi, G.Ramachandran, Chenthis Kanisha Chelliah, Muthuchamy Maruthupandy, Franck Quero, S Vijayalakshmi, Fahd A AL-Mekhlafi, Muhammad A Wadaan, J Ranjitha , Wen-Jun Li. Green microalgal strain Chlorella vulgaris isolated from industrial wastewater with remediation capacity. Environmental Technology & Innovation., 28, 2022, 102597.
iii)	Pradeep Kumar Gandam, Madhavi Latha Chinta, Ninian Prem Prashanth Pabbathi, Rama Raju Baadhe, Vijay Kumar Thakur, Gauri Dutt Sharma, J Ranjitha ., Second-generation bioethanol production from corncob–A comprehensive review on pretreatment and bioconversion strategies, including techno-economic and lifecycle perspective., Industrial Crops and Products., 186, 2022, 115245
iv)	Gokul Raghavendra S, Ranjitha J , Amel Gacem, Akil Ahmad, Javed Khan Bhutto, Krishna Kumar Yadav, Amine Mezni, Omar Khulaif R Alharbi, Saiful Islam, Yongtae Ahn, Byong-Hun Jeon., Effect of Fuel Preheating on Engine Characteristics of Waste Animal Fat-Oil Biodiesel in Compression Ignition Engine., Polymers 2022, 14(18), 3896.
v)	Duraibabu D, J Ranjitha , S Vijayalakshmi, Suresh S., Fabrication of tetraglycidyl epoxy nano-composites functionalized with amine-terminated zinc oxide with improved mechanical and thermal properties., Journal of Materials Research and Technology., 21, 2022, 3947-3960.
vi)	Arshad Javid, Shahid Ali, Ali Hasan, N Senthilkumar, J. Ranjitha , Ali Hussain Coupling wastewater valorization with sustainable biofuel production: Comparison of lab-and pilot-scale biomass yields of Chlorella sorokiniana grown in wastewater under photoautotrophic and mixotrophic conditions Chemosphere. 301, 2022, 134703.
vii)	Fuad Ameen, J Ranjitha , Nazmul Ahsan, Vijayalakshmi S Co-digestion of microbial biomass with animal manure in three-stage anaerobic digestion., Fuel 306, 2021, 121746.
viii)	Ranjitha J , Vijayalakshmi Shankar, Shalini Palani, Gokul Raghavendra Srinivasan Effect of dominant fatty acid esters on emission characteristics of waste animal fat biodiesel in CI engine., Front. Energy Res., 2019 Sec. Bioenergy and Biofuels.
xi)	Gokul R Srinivasan, Vijayalakshmi S, Ranjitha J Experimental study on influence of dominant fatty acid esters in engine characteristics of waste beef tallow biodiesel., Energy Exploration & Exploitation 2019, Vol. 37(3) 1098–1124
x)	Ranjitha J. , Madonna Shlama., Vijayalakshmi S., Biodiesel production using lipase immobilised functionalized magnetic nanocatalyst from oleaginous fungal lipid., Journal of Cleaner Production., 215, 1 2019, 245-258

15. Other activities : -