Curriculum Vitae

1. **Name and full correspondence address:** GUJJALA LOHIT KUMAR SRINIVAS
   Room 210, Biotechnology and Medical Engineering Department, NIT Rourkela, Sector 1, Rourkela, Odisha 769008, India.
2. **Email(s) and contact number(s):** srinivasg@nitrkl.ac.in; lohit.gujjala@gmail.com; +91-8509024654
3. **Research interest(s):** Biorefinery development; Waste valorization; Techno-economic analysis; Life-cycle assessment; Scaling up of bio-process ventures.

4. **Academic Qualification**

Sl. No.	Degree	Year	Subject	University/Institution
1.	B. Tech.	2010	Biotechnology	NIT Durgapur
2.	M. S.	2015	Bioenergy (Advanced Technology Development Centre)	IIT Kharagpur
3.	Ph.D.	2021	Bioenergy (Advanced Technology Development Centre)	IIT Kharagpur

5. **Work experience**

Sl. No.	Positions held	Name of the Institute	From	To
1	Assistant Professor Grade II	NIT Rourkela	May 2023	Till date
2	Postdoctoral Researcher	Kyung Hee University, South Korea	November 2021	April 2023
3	Senior Project Associate	National Environmental Engineering Research Institute Nagpur	April 2021	September 2021
4	Project assistant	National Environmental Engineering Research Institute Kolkata Zonal Laboratory	November 2010	June 2012

6. Professional Recognition

S.No	Name of Award	Awarding Agency	Year
1	Best Oral Presentation Award	International Conference on Biotechnology for Sustainable Bioresources and Bioeconomy (BSBB-2022), Organised at IIT Guwahati, 7-11 December 2022.	2022
2	Visiting research scholar	Aalto University, Finland	May 2018
3	Travel assistance for presenting research work at Asian Congress on Biotechnology 2019, Taiwan	IIT Kharagpur	2019
4	Institute fellowship during Ph.D. @ IIT Kharagpur	MHRD	2015-2020
5	JRF and SRF in a DBT sponsored project @ IIT Kharagpur	DBT	2012-2015

7. Publications

Sl. No.	Author(s)	Title	Name of Journal	Volume/ DOI	Page	Year
1	**Gujjala, L.K.S.,** Won, W.,	System-level integrative analysis for production of Lignin hydrogels	Green Chemistry	24	9579-9594	2022
2	**Gujjala, L.K.S.,** Won, W.,	Process Development, Techno-economic Analysis and Life-Cycle Assessment for laccase catalyzed synthesis of lignin hydrogel.	Bioresource Technology	364	128028	2022
3	**Gujjala, L.K.S.,** Bandyopadhyay, T.K., Banerjee, R.	Production of biodiesel utilizing laccase pretreated lignocellulosic waste liquor: An attempt towards cleaner production process.	Energy Conversion Management	196	979-987	2019
4	**Gujjala, L.K.S.,** Bandyopadhyay, T.K., Banerjee, R.	Kinetic Modelling for Laccase Mediated Delignification of Lantana camara.	Bioresource Technology	212	47-54	2016
5	Kumar, S.P., Garlapati, V.K., **Gujjala, L.K.S.,** Banerjee, R.	Bioconversion of waste glycerol for enhanced lipid accumulation in Trichosporon shinodae.	Biomass Conversion and Biorefinery	https://doi.org/10.1007/s13399-021-01799-x	1-12	2021
6	Kumar, S., **Gujjala, L.K.S.,** Banerjee, R.	Simultaneous pretreatment and saccharification of bamboo for biobutanol production.	Industrial crops and products	101	21-28	2017
7	Althuri, A.,	Partially consolidated	Bioresource	245	530-539	2017

	Gujjala, L.K.S., Banerjee, R.	bioprocessing of mixed lignocellulosic feedstocks for ethanol production	technology			
8	Kumar, S., Das, A., **Srinivas, G.L.,** Dhar, H., Ojha, V.K., Wong, J.	Effect of calcium chloride in abating inhibition due to volatile fatty acids during the start-up period in anaerobic digestion of municipal solid waste.	Environmental Technology	37	1501-1509	2016
9	Samuel, J., **Kumar, S.G.L.,** Rintu, B.	Kinetic Modeling of Mixed Culture Process of Anaerobic Co-digestion of Vegetable Wastes with Pistia stratiotes: A Scientific Attempt on Biomethanation.	Journal of Microbial and Biochemical Technology	9	36-48	2017
10	**Gujjala, L.K.S.,** Kim, J. and Won, W.,	Technical lignin to hydrogels: An Eclectic review on suitability, synthesis, applications, challenges and future prospects.	Journal of Cleaner Production	363	132585	2022
11	**Gujjala, L.K.S.,** Dutta, D., Sharma, P., Kundu, D., Vo, D.V.N. and Kumar, S.,	A state-of-the-art review on microbial desalination cells.	Chemosphere	288	132386	2022
12	**Gujjala, L.K.S,** Kumar, S.J., Talukdar, B., Dash, A., Kumar, S., Sherpa, K. C., Banerjee, R.	Biodiesel from oleaginous microbes: opportunities and challenges.	Biofuels	10	45-59	2017
13	Dutta, D., Rautela, R., **Gujjala, L.K.S.,** Kundu, D., Sharma, P., Tembhare, M. and Kumar, S.,	A review on recovery processes of metals from E-waste: A green perspective.	Science of The Total Environment	859	160391	2023
14	Sharma, P., **Srinivas, G.L.K.,** Varjani, S. and Kumar, S.,	Emerging microalgae-based technologies in biorefinery and risk assessment issues: Bioeconomy for sustainable development.	Science of The Total Environment	813	152417	2021

8. Detail of patent

Sl. No	Patent Title	Name of Applicant(s)	Patent No.	Date	Country	Status
1	Yellow laccase mediated delignification of lignocellulosic biomass	Banerjee R, Ghangrekar MM, Rajak RC, Chintagunta AD, Althuri A, **Srinivas GLK**, Sherpa KC and Kumar S	201631005954	20.02.2016	India	NBA Approval awaited

9. Book chapters

Sl. No	Title	Author's Name	Publisher	Year of Publication
1	Transition of Biofuels from the First to the Fourth Generation	**Gujjala Lohit Kumar Srinivas**, Deval Singh, Sunil Kumar	Taylor and Francis	2023
2	Technologies for oil extraction from oilseeds and oleaginous microbes: A Comprehensive review.	Kumar, S.P.J., Garlapati, V.K., **Gujjala, L.K.S.,** Banerjee, R.	Elsevier	2021
3	Bioalkanes and Bioalkenes: An Ecofriendly and Alternate Fuel in Bioenergy Research	**Gujjala, L.K.S.,** Kumar, S., Rajak, R.C., Banerjee, R.	Springer	2018
4	Biodiesel Production from Lignocellulosic Biomass Using Oleaginous Microbes.	Kumar, S.P., **Gujjala, L.K.S.,** Dash, A., Talukdar, B., Banerjee, R., Sharma, V.	Wiley-Scrivener	2017
5	Lignocellulosic Biomass Availability Map: A GIS-Based Approach for Assessing Production Statistics of Lignocellulosics and its Application in Biorefinery.	Kumar, S., **Srinivas, G.,** Banerjee, R., Sharma, V.	Wiley-Scrivener	2017

10. Other Information

Papers Presented at International Conference/symposium/Teaching assistantship/Membership.

- **Gujjala L.K.S.,** Won, W. (2022) Chitin microbeads as alternative for fossil derived Exfoliants: Perspectives from the Life Cycle Assessment. International Conference on Biotechnology for Sustainable Bioresources and Bioeconomy (BSBB-2022), IIT Guwahati, December 2022.

- **Gujjala L.K.S.,** Won, W. (2022) Lignin hydrogels for potential applications to remediate dye contaminated Wastewater: Techno-economic feasibility analysis and Life-Cycle assessment. The Korean Institute of Chemical Engineers, 2022 Fall General Assembly and Conference, Busan, October 2022.

- **Gujjala L.K.S.,** Won, W. (2022) Production of Hydrogel from Kraft Lignin: Technoeconomic Analysis and Lifecycle Assessment. Korea Industrial Chemical Society 2022 Spring General Assembly and Conference, Jeju, May 2022.

- **Gujjala L.K.S.,** Banerjee, R. (2019) Development of an Energy Efficient Technique for Microalgae Harvesting through Phyco-Myco Co-cultivation. New Horizons on

Biotechnology, Trivandrum, Kerela, India, November 2019.

- **Gujjala, L.K.S.,** Banerjee, R. (2019) Valorization of Lignocellulosic Hydrolysates for Biodiesel Production Utilizing Oleaginous Fungi. 14th Asian Congress on Biotechnology, Taiwan, July 2019.

- **Gujjala, L.K.S.,** Banerjee, R. (2018) Biodiesel production from Oleaginous Aspergillus awamori utilizing glycerol: A comparative study of batch and fed-batch process. International Conference on Biotechnological Research and Innovation for Sustainable Development, IICT Hyderabad organized by Biotech Research Society of India, December 2018.

- **Biotech Research Society of India** (BRSI) Life member since 2015.

- **Asian Federation of Biotechnology** (AFOB) Life member since 2013.

- Teaching assistantship for both theory and practical classes at M. Tech and B. Tech levels at IIT Kharagpur

- **Reviewer - Energy Journal**, Elsevier.

- **Reviewer - Trends in Environmental Analytical Chemistry Journal**, Elsevier.