

Name of the Department: Civil Engineering

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Qualification		UG	B.E	Civil Engineering	
		PG	M.E	Environmental Engineering	
		PhD		Environmental Engineering	
Specialization / Major areas of Research		Microbial fuel cell, wastewater treatment, biomass valorization, waste to energy conversion, waste management			
Experience		Teaching: 2.7	Industry: -		Research:-
Papers Published in Journals		International : 06		National : -05	
Papers Presented in Conferences		International : 10		National : 05	
*Awards / Achievements / Funded Projects / Consultancy					
<p>I have received Rs. 3 lakhs funding for the research project titled “Energy generation from waste using microbial fuel cell” from Tamilnadu State Council for Science and Technology (TNSCST) Chennai under the scheme of Research Funding for Research Scholar (RFRS) for the period of 2019-2021.</p> <p>Reviewer for various referred international journals like Journal of Energy Research and Reviews, Asian Journal of Advanced Research and Reports, Journal of Geography, Environment and Earth Science International, Journal of Engineering Research and Reports, Current Journal of Applied Science and Technology, Asian Journal of Chemical Sciences, Asian Basic and Applied Research Journal, Advances in Research.</p>					

Publications:

Journals:

1. **M.Naveenkumar**, K. Senthilkumar, V. Sampathkumar, S. Anandakumar and B. Thazeem 2021, 'Bio-energy generation and treatment of tannery effluent using microbial fuel cell', *Chemosphere*, Vol. 287, 132090, pp. 01-08. (IF:7.086) Elsevier. <https://doi.org/10.1016/j.chemosphere.2021.132090>
2. **M. Naveenkumar**, and K. Senthilkumar (2021). "Microbial fuel cell for harvesting bio-energy from tannery effluent using metal mixed biochar electrodes." *Biomass and Bioenergy* 149: 106082. (IF:5.061) Elsevier. <https://doi.org/10.1016/j.biombioe.2021.106082>
3. Senthilkumar, K. and **M. Naveenkumar** (2021). "Enhanced performance study of microbial fuel cell using waste biomass-derived carbon electrode." *Biomass Conversion and Biorefinery*: 1-9. (IF:4.987) Springer. <https://doi.org/10.1007/s13399-021-01505-x>
4. G. Primo Beryl, B.Thazeem, M. Umesh, K. Senthilkumar, **M. Naveen Kumar** and K. Preethi. (2021) "Bioconversion of Feather Composts using Proteolytic *Bacillus mycoides* for their Possible Application as Biofertilizer in Agriculture". *Waste and Biomass Valorization* 1-15. (IF:3.703) Springer. <https://doi.org/10.1007/s12649-021-01472-4>
5. K. Senthilkumar, V. Chitradevi, S. Mothil, **M. Naveen Kumar**, Adsorption studies on treatment of textile wastewater using low-cost adsorbent, *Desalination and Water treatment*, Taylor and Francis, vol.123, 2018, pp.90-100. (IF:1.60) <https://doi.org/10.5004/dwt.2018.22756>
6. Senthilkumar Kandasamy, **Naveen kumar Manickam**, Balaji Dhandapani, Studies on generation of bio-energy from tannery effluent using MFC, AIP Conference Proceedings, 2225(1): 070001 <https://aip.scitation.org/doi/abs/10.1063/5.0005526>

Book chapters:

7. K. Senthilkumar, **M. Naveenkumar**, M. Venkata Ratnam, and S. Samraj, (2022). A review on scaling-up of microbial fuel cell: Challenges and opportunities, *Advances in Green and Sustainable Chemistry Scaling Up of Microbial Electrochemical Systems from Reality to Scalability*, Elsevier, Pp.13-26.
8. Senthilkumar Kandasamy, **Naveen Kumar Manickam**, Kavitha Subbiah, K Muthukumar, Manonmani Kumaraguruparaswami, M Venkata Ratnam (2021), Nanotechnology's contribution to next-generation bioenergy production, *Nanomaterials*, Elsevier, Pp. 511-518. www.sciencedirect.com/science/article/pii/B9780128224014000362.

9. Manonmani Kumaraguruparaswami, Senthilkumar Kandasamy, **Naveen Kumar Manickam**, Balaji Dhandapani, Gokilam Mohankumar, Sangeetha Arunachalam, (2021) Green technologies for the biosynthesis of nanoparticles and their applications for environmental sustainability, Nanomaterials, **Elsevier**, Pp. 65-78. <https://www.sciencedirect.com/science/article/pii/B9780128224014000337>.
10. [Senthilkumar Kandasamy](#), [Naveenkumar Manickam](#), [Samraj Sadhappa](#), (2021). Reaping of Bio-Energy from Waste Using Microbial Fuel Cell Technology, Biotechnology for Zero Waste: Emerging Waste Management Techniques, **Wiley online library**, <https://doi.org/10.1002/9783527832064.ch19>.
11. K. Senthil Kumar, **M. Naveen Kumar**, K. Jeevith, (2021). Advanced Treatment Technologies of Industrial Saline Wastewater Using Microalgal Culture, Removal of Pollutants from Saline Water, **CRC Press**. Pp.15, eBook ISBN 9781003185437.
12. **M. Naveen Kumar**, K. Senthil Kumar, M. Venkata Ratnam, S. Samraj, M. Neeraja, M. Chithra, (2021). Treatment of Industrial Saline Wastewater Using Phytoremediation, Removal of Pollutants from Saline Water, **CRC Press**. Pp.15, eBook ISBN 9781003185437.
13. **M. Naveen Kumar**, K. Senthilkumar (2020), Captivating Technology for Generation of Bioenergy from Industrial Waste: Microbial Fuel Cell, Biomass Valorization to Bioenergy 85-96. **Springer**, Singapore. https://link.springer.com/chapter/10.1007/978-981-15-0410-5_7
14. K. Senthilkumar, **M. Naveen Kumar**, V. Chitra Devi, K. Saravanan, S. Easwaramoorthi (2020), Agro-Industrial Waste Valorization to Energy and Value Added Products for Environmental Sustainability, Biomass Valorization to Bioenergy 01-09. **Springer**, Singapore. https://link.springer.com/chapter/10.1007/978-981-15-0410-5_1
15. K. Senthilkumar, **M. Naveen Kumar** (2020), Generation of bio-energy from industrial waste using microbial fuel cell technology for the sustainable future, Refining Biomass Residues for Sustainable Energy and Bio-products, **Elsevier**, 183-193. [sciencedirect.com/science/article/pii/B9780128189962000089](https://www.sciencedirect.com/science/article/pii/B9780128189962000089).
16. K. Senthilkumar, **M. Naveen Kumar** (2018). Research Aspects of Bio-Energy Generation from Waste Using MFC, Advances in Engineering Technology, Volume 1, **Akinik**, Pp.21-39.

Book:

17. [Naveenkumar Manickam](#), [Senthilkumar Kandasamy](#) (2020). Advances in wastewater treatment using activated sludge process, LAP LAMBERT Academic publishing, ISSN: 978-620—2-56335-2.