

List of Publications

(A) Publication in Referred Journals

1. SA Khan, TC D'Silva, S Kumar, R Chandra, VK Vijay, A Misra. (2021). Mutually trading off biochar and biogas sectors for broadening biomethane applications: A comprehensive review. *Journal of Cleaner Production*, 128593.
2. Tinku Casper D'Silva, Adya Isha, Ram Chandra, Virendra Kumar Vijay, Paruchuri Mohan V Subbarao, Ritunesh Kumar, Ved Prakash Chaudhary, Harjit Singh, Abid Ali Khan, Vinay Kumar Tyagi, Kornél L Kovács (2021). Enhancing methane production in anaerobic digestion through hydrogen assisted pathways—A state-of-the-art review. *Renewable and Sustainable Energy Reviews* 151, 111536.
3. SK Bhujbal, M Kumar, VK Vijay, V Kumar, P Ghosh. (2021). Potential of termite gut microbiota for biomethanation of lignocellulosic wastes: current status and future perspectives. *Reviews in Environmental Science and Bio/Technology*, 1-20.
4. A Isha, TC D'Silva, PMV Subbarao, R Chandra, VK Vijay (2021). Stabilization of anaerobic digestion of kitchen wastes using protein-rich additives: Study of process performance, kinetic modelling and energy balance. *Bioresource Technology*, 125331.
5. SS Sahoo, VK Vijay, R Chandra, H Kumar. (2021). Production and characterization of biochar produced from slow pyrolysis of pigeon pea stalk and bamboo. *Cleaner Engineering and Technology* 3, 100101.
6. Sakhiya, A. K., Anand, A., Aier, I., Baghel, P., Vijay, V. K., Kaushal, P. (2020). Sustainable utilization of rice straw to mitigate climate change: A bioenergy approach. *Materials Today: Proceedings*.
7. Sakhiya, A. K., Baghel, P., Pathak, S., Vijay, V. K., Kaushal, P. (2020). Effect of Process Parameters on Slow Pyrolysis of Rice Straw: Product Yield and Energy Analysis. In 2020 International Conference and Utility Exhibition on Energy, Environment and Climate Change (ICUE) (pp. 1-9). IEEE.
8. Kumar, P., Subbarao, P., Kala, L., Vijay, V.K. (2021). "Thermogravimetric devolatilisation behavior of agricultural residue for generation of syngas." *ASME. J. Energy Resour. Technol.* 143 (11), 112106.
9. Adlak, K., Chandra, R., Vijay, V. K., Pant, K. K. (2021). Physicochemical Activation and Palletisation of *Azadirachta indica* Wood Carbons for Increased Biomethane Adsorbed Energy Storage. *Journal of Analytical and Applied Pyrolysis*, 105102.
10. Kumar, P., Subbarao, P. M. V., Vijay, V. K. (2021). Assessment of pyrolysis-kinetics of corncob and eucalyptus biomass residue using thermo gravimetric analysis. *International Journal of Sustainable Energy*, 1-13.
11. Anil Kumar Sakhiya, Imlisongla Aier, Shivangi Pathak, Abhijeet Anand, Shivangi Jha, V.K.Vijay, Priyanka Kaushal. Copper(II) removal from aqua solution using rice straw derived biochar. DOI: 10.1016/j.matpr.2020.12.953

12. Goldy Shah, Ejaz Ahmad, K.K.Pant, V.K.Vijay. Comprehending the contemporary state of art in biogas enrichment and CO₂ capture technologies via swing adsorption. 2020. International Journal of Hydrogen Energy. <https://doi.org/10.1016/j.ijhydene.2020.11.116>.
13. Adya Isha, Subodh Kumar, BhaskarJha, Paruchuri M.V.Subbarao, Chandra Ram, Virendra Kumar Vijay. Development of stabilization methods using a pilot scale anaerobic digester for seasonal variations in kitchen wastes for improved methane production with zero breakdowns. 2020. Cleaner Engineering and Technology <https://doi.org/10.1016/j.clet.2020.100015>.
14. Safoora Mirmohamadsadeghi, Keikhosro Karimi, Reza Azarbaijani, Laleh Parsa Yeganeh, Irini Angelidaki, Abdul-Sattar Nizami, Rajeev Bhat, Kavya Dashora, Virendra Kumar Vijay, Mortaza Aghbashlo, Vijai Kumar, Guptai Meisam Tabatabaei. 2020, Pretreatment of lignocelluloses for enhanced biogas production: A review on influencing mechanisms and the importance of microbial diversity. Renewable and Sustainable Energy Reviews, 135, 110173.
15. Rimika Kapoor, Pooja Ghosh, Bhawna Tyagi, Virendra Kumar Vijay, Vandit Vijay, Indu Shekhar Thakur, Hesam Kamyab, Naguyen D Duc, Ashok Kumar. 2020. Advances in biogas valorization and utilization systems: A comprehensive review. Journal of Cleaner Production 273, 1230522.
16. Pushpendar Kumar, Arghya Bhattacharya, Sanjeev Kumar Prajapati, Anushree Malik, Virendra Kumar Vijay. Anaerobic co-digestion of waste microalgal biomass with cattle dung in a pilot-scale reactor: Effect of seasonal variations and long-term stability assessment. Biomass Conversion and Biorefinery 2020.
17. K Paritosh, V Balan, VK Vijay, V Vivekanand. 2020 Simultaneous alkaline treatment of pearl millet straw for enhanced solid state anaerobic digestion: Experimental investigation and energy analysis. Journal of Cleaner Production 252, 119798.
18. Rimika Kapoor, Pooja Ghosh, Madan Kumar, Subhanjan Sengupta, Asmita Gupta, Smita S Kumar, Vandit Vijay, Vivek Kumar, Virendra Kumar Vijay, Deepak Pant. Valorization of agricultural waste for biogas based circular economy in India: A Research Outlook. Bioresource Technology, 123036.
19. Pooja Ghosh, Madan Kumar, Rimika Kapoor, Smita S Kumar, Lakhveer Singh, Vandit Vijay, Virendra Kumar Vijay, Vivek Kumar, Indu Shekhar Thakur. Enhanced biogas production from municipal solid waste via co-digestion with sewage sludge and metabolic pathway analysis. Bioresource Technology, 296 (2020), 1222752.
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21. Kapoor R, Ghosh P, Madan K, Vijay V.K. Evaluation of biogas upgrading technologies and future perspectives: A review (2019). Environmental Science and Pollution Research (2019) 26:11631–11661.

22. P Ghosh, G Shah, R Chandra, S Sahota, H Kumar, VK Vijay, IS Thakur. Assessment of methane emissions and energy recovery potential from the municipal solid waste landfills of Delhi, India. *Bioresource Technology* 272, 611-615
23. Kumar P., Prajapati S.K, Malik A, Vijay V.K. Evaluation of biomethane potential of waste algal biomass collected from eutrophied lake: effect of source of inocula, co-substrate and VS loading. *Journal of Applied Phycology* 31 (1), 533-545.
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26. R Chandra, A Trivedi, B Jha, AR Verma, VK Vijay. Energy generation from paddy straw – an analysis of bioenergy models. *Akshay Urja (Renewable Energy)* 10 (6), 22-27.
27. Kapoor R, Subbarao PMV, Vijay VK, Shah G, Sahota S, Singh D and Verma M, "Factors affecting methane loss from a water scrubbing based biogas upgrading system. "Applied Energy" 208 (2017): 1379-1388.
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29. Krishania M, **Vijay VK**, Chandra R. Performance evaluation of various bioreactors for methane fermentation of pretreated wheat straw with cattle manure. *Green Processing and Synthesis*. 2016 Apr 1;5(2):113-21.
30. Prajapati S.K, Bhattacharya A, Kumar P, Malik A, **Vijay V.K**. A method for simultaneous bioharvesting and pretreatment of algal biomass targeting improved methane production. *Green Chem*. 18: 5230-5238, 2016 (RSC, IF: 8.506)
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32. Mal R, Prasad R, **Vijay VK**. Multi-functionality clean biomass cookstove for off-grid areas. *Process Safety and Environmental Protection*. 2016 Nov 30;104:85-94.
33. Risha Mal, Rajendra Prasad, **Virendra Kumar Vijay**, Amit Ranjan Verma, Ratnesh Tiwari. Performance analysis of different thermoelectric generators used for development of off-grid clean cookstove. *National conference on "Recent Advances in Science and Engineering Research"* March 18 & 19 2016 Tiruvannamalai.
34. **Virendra Kumar Vijay**, Ram Chandra, Vandit Vijay, Bhaskar Jha and Abhinav Trivedi "Biogas: A clean Energy Alternative" in *Kurukshetra-A journal on Rural Development*, Vol 64, No.7, pages 42-44 May 2016
35. Krishania M, **Vijay VK**, Chandra R. An Enhancement of Methane Fermentation by Combined Alkali Pretreatment of Wheat Straw. *Journal of Biobased Materials and Bioenergy*. 2015 Jun 1;9(3):327-33.
36. Ratnesh Tiwari, Rajendra Prasad, Michael Johnson, Amit Ranjan Verma, **V.K.Vijay** and Risha Mal. Field Testing Cookstove Performance(Uncontrolled Cooking Test) in Uttar

- Pradesh and West Bengal, India . In: **2015'** Forum of Renewable Energy Promotion in Developing Countries, China Agricultural University, Beijing, China
37. Risha Mal, Rajendra Prasad, **Virendra Kumar Vijay**. Design and Testing of Thermoelectric Generator embedded Clean Forced Draft Biomass Cookstov, IEEE Xplore 2015. The 15 IEEE International Conference on Environment and Electrical Engineering, Rome, 10-13 June **2015**. Electronic ISBN: 978-1-4799-7993-6
 38. Prajapati S. K, Malik A, **Vijay V.K**, Sreekrishnan T. R **2015**. Enhanced methane production from algal biomass through short duration enzymatic pretreatment and codigestion with carbon rich waste. RSC Adv. 5: 67175–67183 (RSC, *IF*: 3.289)
 39. Prajapati S.K, Bhattacharya, Malik A, **Vijay V.K 2015**. Pretreatment of algal biomass using fungal crude enzymes. Algal Res. 8: 8 – 14 (Elsevier, *IF*: 4.694)
 40. Mal, Risha, Rajendra Prasad, **Virendra K. Vijay**, and Amit R. Verma. "The design, development and performance evaluation of thermoelectric generator (TEG) integrated forced draft biomass cookstove." *Procedia Computer Science* 52 (**2015**): 723-729.
 41. Abhinav Trivedi, **Virendra Kumar Vijay** and Ram Chandra: Liquid Hot Water Pretreatment of Paddy Straw for Enhanced Biomethanation. **2015** (1): 15-22.
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 43. Kaur S, **Vijay VK**, Hariprasad P. Isolation and Characterisation of Lignolytic Bacteria for Bioethanol Production. Journal of Biofuels and Bioenergy. **2015**;1(1):34-40.
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 45. Mal R, Prasad R, **Vijay VK**. Design and performance evaluation of thermoelectric generator stove and comparison with traditional, natural and forced draft stoves. International Journal of Energy Technology and Policy. 2015;11(3):220-33.
 46. Mal, Risha, Rajendra Prasad and **V K Vijay** 2014” Thermoelectric Power Generator Integrated Cookstove: A sustainable approach of waste heat to energy conversion, International Journal of Research in Engineering and Technology, Vol 3, special issue 12, June 2014
 47. S. K. Prajapati, P. Kumar, A. Malik, **V. K. Vijay** 2014. Algal treatment coupled bioenergy generation process for handling liquid and solid waste from dairy cattle farm (Under Review). Applied Energy (Elsevier, *IF*:4.781).
 48. Risha Mal, Rajendra Prasad, **V.K. Vijay**, Amit Ranjan Verma, Ratnesh Tiwari. *Self-sustaining energy cook stove for rural Indian areas*. In: Proceedings of 2014 Conference in Engineers in Technical and Humanitarian Opportunities of Service (ETHOS), Kirkland, Washinton DC.
 49. Risha Mal, Rajendra Prasad, and **V. K. Vijay**. *Renewable Energy from Biomass Cookstoves for Off Grid Rural Areas*. International Proceedings of Chemical, Biological and Environmental Engineering; Vol 64 2014. p. 113-117. (ISSN :2010-4618, ISBN:978-981-07-9253-4), 1st International congress on Environmental, Biotechnology and Chemical engineering, In: 2014 International Conference on Renewable Energy (ICRE 2014), Pune, India.
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52. Ratnesh Tiwari, Rajendra Prasad, Amit Ranjan Verma, **V.K.Vijay** and Risha Mal. Test Protocols and Standards for Biomass Cookstoves in India. In: **2014' Forum of Renewable Energy Promotion in Developing Countries**, China Agricultural University, Beijing, China
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55. Prajapati S.K, Malik A, **Vijay V.K, 2014**. Comparative evaluation of biomass production and bioenergy generation potential of Chlorella spp. through anaerobic digestion. *Appl. Energy* 114: 790 – 797(Elsevier *IF: 5.746*)
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61. Risha Mal, Rajendra Prasad, and **V.K. Vijay** , Renewable Energy from Biomass Cookstoves for Off Grid Rural Areas, 201 4 " international Congress on Environmental, Biotechnology. AndChemistry Engineering PCBEE vol.61 @ (2014) IACSIT Press, Singapore DOI: 10.7763/IPCBE. 201 4. V61. 2 1.
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100. Vyas, S.S., **Vijay, V.K.** and Metha, N.K. (1990). Biogas Plant Failures: Causes and Remedies, *Rural Technology Journal*. Vol. 7 No. 2 pp. 13-16.

(B) Publications in Conference/Symposium Proceedings and Books

1. **Vijay, V.K.** and Rathore, N.S. (1988). Study on Biogas as Fuel for SI. Engines. National Solar Energy Convention, Hyderabad, AR-BM -01.
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