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LIST OF PUBLICATIONS

1. J Rajesh Banu, K Tamilarasan, Soon Woong Chang, D Duc Nguyen, Vinoth Kumar Ponnusamy, Gopalakrishnan Kumar, 'Surfactant assisted microwave disintegration of green marine macroalgae for enhanced anaerobic biodegradability and biomethane recovery', Fuel 281, 118802, 2020.
2. JR Banu, T Tamilarasan, S Kavitha, M Gunasekaran, 'Energetically feasible biohydrogen production from sea eelgrass via homogenization through a surfactant, sodium tripolyphosphate', International Journal of Hydrogen Energy 45 (10), 5900-5910, 2020.
3. C Subha, S Kavitha, S Abisheka, K Tamilarasan, P Arulazhagan, JR Banu, 'Bioelectricity generation and effect studies from organic rich chocolaterie wastewater using continuous upflow anaerobic microbial fuel cell', Fuel 251, 224-232, 2019.
4. J Rajesh Banu, K Tamilarasan, R Uma Rani, M Gunasekaran, Si-Kyung Cho, H Ala'a, Gopalakrishnan Kumar, 'Dispersion aided tenside disintegration of seagrass *Syringodium isoetifolium*: Towards biomethanation, kinetics, energy exploration and evaluation', Bioresource technology 277, 62-67, 2019.
5. Tamilarasan Karuppiah, Vimala Ebenezer Azariah, 'Biomass pretreatment for enhancement of biogas production', Anaerobic Digestion, 2019.
6. K Tamilarasan, R Banu, D Kumar, JH Park, 'Influence of mild-ozone assisted disperser pretreatment on the enhanced biogas generation and biodegradability of green marine macroalgae', Frontiers in Energy Research 7, 89, 2019.
7. K Tamilarasan, S Kavitha, Ammaiyappan Selvam, J Rajesh Banu, Ick Tae Yeom, Dinh Duc Nguyen, Ganesh Dattatraya Saratale, 'Cost-effective, low thermo-chemo disperser pretreatment for biogas production potential of marine macroalgae *Chaetomorpha antennina*', Energy 163, 533-545, 2018.

8. T Karuppiah, A Pugazhendi, S Subramanian, MT Jamal, RB Jeyakumar, 'Deriving electricity from dye processing wastewater using single chamber microbial fuel cell with carbon brush anode and platinum nano coated air cathode', *Biotech* 8 (10), 437, 2018.
9. MD Kumar, K Tamilarasan, S Kaliappan, JR Banu, M Rajkumar, SH Kim, 'Surfactant assisted disperser pretreatment on the liquefaction of *Ulva reticulata* and evaluation of biodegradability for energy efficient biofuel production through nonlinear regression modelling', *Bioresource technology* 255, 116-122, 2018.
10. K Tamilarasan, P Arulazhagan, RU Rani, S Kaliappan, JR Banu, 'Synergistic impact of sonic-tenside on biomass disintegration potential: acidogenic and methane potential studies, kinetics and cost analytics', *Bioresource technology* 253, 256-261, 2018.
11. J Rajesh Banu, G Sokkanathan, V Godvin Sharmila, K Tamilarasan, S Adish Kumar, Mamdoh T Jamal, 'Combinative treatment of chocolaterie wastewater by a hybrid up-flow anaerobic sludge blanket reactor and solar photo-Fenton process', *Desalination and Water Treatment* 121, 343-350, 2018.
12. U Ushani, JR Banu, K Tamilarasan, S Kavitha, IT Yeom, 'Surfactant coupled sonic pretreatment of waste activated sludge for energetically positive biogas generation', *Bioresource technology* 241, 710-719, 2017.
13. K Tamilarasan, S Kavitha, JR Banu, P Arulazhagan, IT Yeom, 'Energy-efficient methane production from macroalgal biomass through chemo disperser liquefaction', *Bioresource technology* 228, 156-163, 2017.
14. K Tamilarasan, J Rajesh Banu, C Jayashree, KN Yogalakshmi, K Gokulakrishnan, 'Effect of organic loading rate on electricity generating potential of upflow anaerobic microbial fuel cell treating surgical cotton industry wastewater', *Journal of environmental chemical engineering* 5 (1), 1021-1026, 2017.
15. JR Banu, S Kavitha, K Tamilarasan, 'Modelling for Anaerobic Process', *Optimization and Applicability of Bioprocesses*, 283-304, 2017.
16. C Jayashree, K Tamilarasan, M Rajkumar, P Arulazhagan, KN Yogalakshmi, M Srikanth, J Rajesh Banu, 'Treatment of seafood processing wastewater using upflow microbial fuel cell for power generation and identification of bacterial community in anodic biofilm', *Journal of environmental management* 180, 351-358, 2016.