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Member - 6

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List of Publications

1. MA Balu, K Rao, C Naveen, M Premalatha: "Effect of orientation on the yield of low-cost solar stills with coco peat and charcoal as an absorber material", Desalination and Water Treatment, 156, 126-135, 2019 DOI: 10.5004/dwt.2019.23555.
2. R Elankovan, M Premalatha: "Utilization of unfiltered LPG-burner exhaust-gas emission using microalga *Coelastrella* sp.", Journal of CO₂ Utilization, 29, 283-295, 2019 DOI: 10.1016/j.jcou.2018.12.020
3. EM Nithiya, F Fenila, KK Vasumathi, M Premalatha: "Cultivation of *scenedesmus* sp. using optimized minimal nutrients and flocculants – a potential platform for mass cultivation", Environmental Technology, 1-14, 2018 DOI: 10.1080/09593330.2018.1531939
4. MA Balu, DV Rao, K Siva Krishna, M Premalatha: "Performance analysis of biomass- based absorber solar still through ANN and MLR approach", Desalination and Water Treatment, 127, 262-271, 2018 DOI: 10.5004/dwt.2018.22759
5. D. V. Siva Krishna Rao K, M Premalatha, C. Naveen: "Analysis of different combinations of meteorological parameters in predicting the horizontal global solar radiation with ANN approach: A case study", Renewable and Sustainable Energy Reviews, 91, 248-258, 2018 DOI: 10.1016/j.rser.2018.03.096
6. D. V. Siva Krishna Rao K, M Premalatha, C. Naveen: "Models for forecasting monthly mean daily global solar radiation from in-situ measurements: Application in Tropical Climate, India", Urban Climate, 24, 921-939, 2018 DOI: 10.1016/j.uclim.2017.11.004
7. GS Narayanan, S Seepana, R Elankovan, S Arumugan, M Premalatha: "Isolation, identification and outdoor cultivation of thermophilic freshwater microalgae *Coelastrella* sp. FI69 in bubble column reactor for the application of biofuel production", Biocatalysis and Agricultural Biotechnology, 14, 357-365, 2018 DOI: 10.1016/j.bcab.2018.03.022

8. K Sankaran, M Premalatha: "Nutrients uptake from anaerobically digested distillery wastewater by *Spirulina* sp. under xenon lamp illumination", *Journal of Water Process Engineering*, 25, 295-300, 2018 DOI: 10.1016/j.jwpe.2018.08.014
9. KDV Siva Krishna Rao, M Premalatha, C Naveen: "Method and strategy for predicting daily global solar radiation using one and two input variables for Indian stations", *Journal of Renewable and Sustainable Energy*, 10 (1), 013701, 2018 DOI: 10.1063/1.4995035
10. G Shanthi, M Premalatha, N Anantharaman: "Effects of l-amino acids as organic nitrogen source on the growth rate, biochemical composition and polyphenol content of *Spirulina platensis*", *Algal Research*, 35, 471-478, 2018 DOI: 10.1016/j.algal.2018.09.014
11. MA Balu, M Premalatha: "Investigation of charcoal, coco peat and black sponge as absorber materials on the performance enhancement of low cost solar still", *Desalination and Water Treatment*, 116, 57-66, 2018 DOI: 10.5004/dwt.2018.22561
12. S Krishnamoorthy, M Premalatha, M Vijayasekaran: "Characterization of distillery wastewater—An approach to retrofit existing effluent treatment plant operation with phycoremediation", *Journal of cleaner production*, 148, 735-750, 2017 DOI: 10.1016/j.jclepro.2017.02.045
13. EM Nithiya, J Tamilmani, KK Vasumathi, M Premalatha: "Improved CO₂ fixation with *Oscillatoria* sp. in response to various supply frequencies of CO₂ supply", *Journal of CO₂ Utilization*, 18, 198-205, 2017 DOI: 10.1016/j.jcou.2017.01.025
14. RK Moorthy, M Premalatha, M Arumugam: "Batch sedimentation studies for freshwater green alga *Scenedesmus abundans* using combination of flocculants", *Frontiers in Chemistry*, 5, 37, 2017 DOI: 10.3389/fchem.2017.00037
15. R Pandey, M Premalatha: "Design and analysis of flow velocity distribution inside a raceway pond using computational fluid dynamics", *Bioprocess and biosystems engineering*, 40 (3), 439-450, 2017 DOI: 10.1007/s00449-016-1712-8
16. KK Vasumathi, EM Nithiya, R Pandey, M Premalatha: "Studies on the effect of wind speed on loss of carbon dioxide during bio sequestration", *International Journal of Hydrogen Energy*, 42 (42), 26555-26562, 2017 DOI: 10.1016/j.ijhydene.2017.07.083
17. LMA Kumar, V Sivaramakrishnan, M Premalatha, M Vivekanandan: "Experimental and simulation studies on the effect of suction opening orientation on solar vertical chimney", *International Journal of Sustainable Energy*, 36 (6), 592-605, 2017 DOI: 10.1080/14786451.2015.1073732
18. C Naveen, M Premalatha: "Impact of blend ratio on the co-firing of post-methanated distillery effluent solid waste and low-rank Indian coal via analysis of oxidation kinetics through TGA", *RSC Advances*, 6 (31), 26121-26129, 2016 DOI: 10.1039/C5RA25065J
19. SS Priya, M Premalatha, I Thirunavukkarasu: "Indoor air quality optimization by thermal displacement air-conditioning methods", *Indian Journal of Science and Technology*, 9 (36), 100984, 2016 DOI: 10.17485/ijst/2016/v9i36/100984