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**Total Experience in Years:** 13

**Research areas:** Recovery of hydrogen from industrial wastewater, Biogas production from solid waste, Biofuel production using algae, $CO_2$ adsorption using amine reactor, Pollutant degradation using biofilters and photocatalytic process

**Recent publications:**

1. SankarSekar, Sejoon Lee, **PreethiVijayarengan***, Kalirajan KM, Santhakumar T, SaravananSekar, Sudha S, Upcycling of Wastewater via Effective Photocatalytic Hydrogen Production Using $MnO_2$ Nanoparticles-Decorated Activated Carbon Nanoflakes, Nanomaterials 10, 2020, 1610.
2. SankarSekar, Sejoon Lee, **PreethiVijayarengan***, Biomass Activated Carbon-Decorated Spherical β-Ni(OH)2 Nanoparticles for Enhanced Hydrogen Production, Journal of Water Process Engineering (accepted for publication), Sep 2020.
3. HariramVenkatesan, Godwin John John Rose, **PreethiVijayarengan**,SeralathanSivamani, Jagannathan Krishnan, MichaPremkumar T, Predicting the combustion behaviour of compression ignition engine fuelled with biodiesel from Stoechospermummarginatum, a macro algae, Environmental Science and Pollution Research,DOI:10.1007/s11356-020-10048-z, July 2020.
4. V. T. Neelmudiyon, **PreethiVijayarengan**, S.Govindarajan, A Study on Conjunctive use of Green and Blue Water in Deevanur Tank Irrigated Area, International journal of advanced research in engineering & technology 11(9):272-281, 2020.
5. V. NavakoteswaraRao, N. Lakshmana Reddy, M. MamathaKumari, P. Ravi, M. Sathish, K.M. Kuruvilla, **V. Preethi***, K. Raghava Reddy, T.M. Aminabhavi*, M.V. Shankar*., Photocatalytic $H_2$ production coupled with pollutant removal from sulphide wastewater: Surface and interface control of photo-excitons in $Cu_2S@TiO_2$ core-shell nanostructures, Applied Catalysis B Environmental 254, (2019) 174-185.
6. S.N.Mohamed*, **Preethi V*** and Matheswaran M, Enhancing biohydrogen production from sugar industry wastewater using metal oxide/graphenenanocomposite catalysts in microbial electrolysis cell, International Journal of Hydrogen Energy, 45 (2020) 7647-7655.
7. **Preethi V*,** Anthony Raja, Performance of Square and Trapezoidal Photoreactors for Solar Hydrogen Recovery from Various Industrial Sulphide Wastewater using CNT & $Ce^{3+}$ doped $TiO_2$, International Journal of Hydrogen Energy, 45 (2020) 7616-7626.
8. M. Anthony Raja and**V. Preethi*** Photocatalytic Hydrogen Production using Bench-scale Trapezoidal Photocatalytic Reactor under Visible and Solar Irradiation, International Journal of Hydrogen Energy, 45 (2020) 7574-7583.
9. A.Madhumitha, **V.Preethi*** and S.Kanmani, PhotocatalyticHydrogen Production using $TiO_2$ Coated Iron-Oxide CoreShell Particles, International Journal of Hydrogen Energy, 43 (2018) 3946-3956.
10. Bharatvaj J, **Preethi V*** and Kanmani S, Hydrogen Production from SulphideWastewater using $Ce^{3+}$–$TiO_2$Photocatalysis, International Journal of Hydrogen Energy, 43 (2018) 3935-3945.
11. **V. Preethi*** and Kanmani S, Performance of Nano Photocatalysts for the Recovery of Hydrogen and Sulphur from Sulphide Containing Wastewater, International Journal of Hydrogen Energy, 43 (2018) 3920-3934.
12. **V. Preethi*** and Kanmani S, Optimization of operating parameters for gasphasePhotocatalytic splitting of $H_2S$ by novel vermiculate packed tubular reactor, Journal of Environmental Management, 181, 674-680, 2016
13. **V. Preethi***&Kanmani S, Performance of gasphase reactors on hydrogen recovery from industrial waste gases, Int. J Hyd. Energy 42 (2017) 8997-9002
14. **V. Preethi*** and S. Kanmani, Performance of four various shapes of photocatalytic reactors with respect to hydrogen and sulphur recovery from sulphide containing waste streams, Journal of Cleaner Production,133 (2016) 1218-1226.
15. **V. Preethi*** and S. Kanmani, Photocatalytic hydrogen recovery using $Fe_2O_3$ core shell nano particles, International J Hydrogen Energy 39 (2014) 1613-1622.
16. **V. Preethi*** and S. Kanmani, Photocatalytic Hydrogen Production, Material Science in Semiconductor Processing, 16 (2013) 561–575.
17. **V. Preethi*** and S. Kanmani, Photocatalytic hydrogen production over $CuGa_{2-x}Fe_xO_4$ Spinel, International Journal of Hydrogen Energy, 37 (2012) 18740-18746.

**Research Gate:**https://www.researchgate.net/profile/Preethi_Vijayarengan
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**Google Scholar:**https://scholar.google.com/citations?user=sHrdgC0AAAAJ&hl=en&authuser=1