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| D:\old\d\Desktop 2016-17\Current Desktop\new desktop\preethi photo & CV\Preethi-min.jpg | **Dr.V.Preethi**  Professor & Head, Department of Civil Engineering  Hindustan Institute of Technology and Science (HITS)  [vpreethi@hindustanuniv.ac.in](mailto:vpreethi@hindustanuniv.ac.in)  **Total Experience in Years:** 14  **Research areas:** Recovery of hydrogen from industrial wastewater, Biogas production from solid waste, Biofuel production using algae, CO2 adsorption using amine reactor, Pollutant degradation using biofilters and photocatalytic process |

# **Educational Qualifications:**

**2010-2015: Ph.D. in Environmental Engineering (Thesis Highly Commended),** Anna University, TN, **INDIA.***Thesis title:* Recovery of Hydrogen from Hydrogen Sulphide using Liquid-phase and Gas- phase Photocatalytic Processes.

**2004-2006: M.S. Environmental Technology (with First class),** Autonomous University of Barcelona, Barcelona, **SPAIN.**

**2000-2004: B.E. Environmental Engineering (with First class),** Avinashiligam Deemed University, Coimbatore, TN, **INDIA.**

**Completed Research Project:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Title of the Project** | **Period of the Project** | **Funding Agency and Project Cost** | **Status** |
| **1.** | Recovery of Hydrogen from Industrial Waste Streams | 3 years (Mar 2016 to  Mar 2019) | DST-SERB, India; Rs. 10,50,500 | Completed |

**Recent publications:**

1. **V.Preethi**\*, Solar hydrogen production in India, 2022; Environmental Developmant and Sustainability DOI:[10.1007/s10668-022-02157-1](http://dx.doi.org/10.1007/s10668-022-02157-1)
2. Sankar Sekar, Preethi Vijayarengan\*, V S Srivishnu, Highly-efficient photocatalytic activity of TiO 2 -AC nanocomposites for hydrogen production from sulphide wastewater, 2022; International Journal of Hydrogen Energy. DOI: 10.1016/j.ijhydene.2022.02.019
3. Shanmugam, K., Angeline, P., Preethi, V., Identification of Calcium Carbonate Producing Novel Bacillus Cereus KOV15 Isolated from Soil Microbial Communities Towards Greener Construction Materials, Oxidation Communications, 2022, 45(1), pp. 81–92.
4. Brindha Devi S, Sankar S, Kowsuki K, Preethi V, Graphitic carbon nitride encapsulated sonochemically synthesized β-nickel hydroxide nanocomposites for electrocatalytic hydrogen generation, International Journal of Hydrogen Energy, DOI: 10.1016/j.ijhydene.2022.04.072
5. Abu T Abu Talha Aqueel Ahmed, Sankar Sekar, Sejoon Lee, Hyunsik Im, V.Preethi, Nitrogen-doped cobalt sulfide as an efficient electrocatalyst for hydrogen evolution reaction in alkaline and acidic media, International Journal of Hydrogen Energy, 2022, <https://doi.org/10.1016/j.ijhydene.2022.04.076>
6. M.Jothilingam Preethi V, P.Sri Chandana, G.Janardhanan, Fabrication of sustainable green bricks by the effective utilization of tannery sludge as main additive, Structures 48:182-194, 2023.
7. Shankar M.V., Preethi V, A Critical Review on Core/Shell Based Nanostructured Photocatalysts for Improved Hydrogen Generation, Int. J. Hydrogen Energy 2023
8. Neelmudiyon V.T., Preethi V, Govindarajan S,  Performance evaluation of buried pvc pipe lines for tank irrigation – a case study of deevanur tank, Water Supply, 13.02.2023
9. Sankar S, **Preethi V**, Saravanan S, Deuk YK, Sejoon L, Excellent photocatalytic performances of Co3O4–AC nanocomposites for H2 production via wastewater splitting, Chemosphere, 2022, 286, 131823.
10. [V. Navakoteswara Rao,](https://www.researchgate.net/profile/V-Rao-8?_sg%5B0%5D=K1QNYi9Le2M2KJ9j45xgDlkiyc3-LaRpQqU6pgi7-jqacvk8Us19eTb7ZgChhnjihH7eC_I.A3AMkzDmNyFczm0kX9o1-KxjN-E6g04yrsFm0_Y72TiOV0njORwMVwUvxBnL0iK_Suiv239iP_1X99wObuoRfQ&_sg%5B1%5D=JSsV6ufMMNXt9SGCEnGP05IYHqgTkzyldKfQftmywv3TZJkBX-qZO_sCpANY3uAZv8t3SnI.qOZHK6_Q1gSzIPwUbnMnh8EIOVlopeHSKV78OYdx5aUZgmaLkGrkfKrlxOhhpoEN9zA1AJv259zLFs21zplmFg) [**Preethi Vijayarengan**,](https://www.researchgate.net/profile/Preethi-Vijayarengan?_sg%5B0%5D=K1QNYi9Le2M2KJ9j45xgDlkiyc3-LaRpQqU6pgi7-jqacvk8Us19eTb7ZgChhnjihH7eC_I.A3AMkzDmNyFczm0kX9o1-KxjN-E6g04yrsFm0_Y72TiOV0njORwMVwUvxBnL0iK_Suiv239iP_1X99wObuoRfQ&_sg%5B1%5D=JSsV6ufMMNXt9SGCEnGP05IYHqgTkzyldKfQftmywv3TZJkBX-qZO_sCpANY3uAZv8t3SnI.qOZHK6_Q1gSzIPwUbnMnh8EIOVlopeHSKV78OYdx5aUZgmaLkGrkfKrlxOhhpoEN9zA1AJv259zLFs21zplmFg) [Urupalli Bhargav](https://www.researchgate.net/scientific-contributions/Urupalli-Bhargav-2194512668?_sg%5B0%5D=K1QNYi9Le2M2KJ9j45xgDlkiyc3-LaRpQqU6pgi7-jqacvk8Us19eTb7ZgChhnjihH7eC_I.A3AMkzDmNyFczm0kX9o1-KxjN-E6g04yrsFm0_Y72TiOV0njORwMVwUvxBnL0iK_Suiv239iP_1X99wObuoRfQ&_sg%5B1%5D=JSsV6ufMMNXt9SGCEnGP05IYHqgTkzyldKfQftmywv3TZJkBX-qZO_sCpANY3uAZv8t3SnI.qOZHK6_Q1gSzIPwUbnMnh8EIOVlopeHSKV78OYdx5aUZgmaLkGrkfKrlxOhhpoEN9zA1AJv259zLFs21zplmFg), [Shankar](https://www.researchgate.net/profile/Shankar-Muthukonda-Venkatakrishnan?_sg%5B0%5D=K1QNYi9Le2M2KJ9j45xgDlkiyc3-LaRpQqU6pgi7-jqacvk8Us19eTb7ZgChhnjihH7eC_I.A3AMkzDmNyFczm0kX9o1-KxjN-E6g04yrsFm0_Y72TiOV0njORwMVwUvxBnL0iK_Suiv239iP_1X99wObuoRfQ&_sg%5B1%5D=JSsV6ufMMNXt9SGCEnGP05IYHqgTkzyldKfQftmywv3TZJkBX-qZO_sCpANY3uAZv8t3SnI.qOZHK6_Q1gSzIPwUbnMnh8EIOVlopeHSKV78OYdx5aUZgmaLkGrkfKrlxOhhpoEN9zA1AJv259zLFs21zplmFg) [Muthukonda Venkatakrishnan,](https://www.researchgate.net/profile/Shankar-Muthukonda-Venkatakrishnan?_sg%5B0%5D=K1QNYi9Le2M2KJ9j45xgDlkiyc3-LaRpQqU6pgi7-jqacvk8Us19eTb7ZgChhnjihH7eC_I.A3AMkzDmNyFczm0kX9o1-KxjN-E6g04yrsFm0_Y72TiOV0njORwMVwUvxBnL0iK_Suiv239iP_1X99wObuoRfQ&_sg%5B1%5D=JSsV6ufMMNXt9SGCEnGP05IYHqgTkzyldKfQftmywv3TZJkBX-qZO_sCpANY3uAZv8t3SnI.qOZHK6_Q1gSzIPwUbnMnh8EIOVlopeHSKV78OYdx5aUZgmaLkGrkfKrlxOhhpoEN9zA1AJv259zLFs21zplmFg) Gram-scale synthesis of ZnS/NiO core-shell hierarchical nanostructures and their enhanced H2 production in crude glycerol and sulfide wastewater, 2021, Environmental Research, [10.1016/j.envres.2021.111323.](http://dx.doi.org/10.1016/j.envres.2021.111323)
11. [S Chandrapp,,D.H.K.Murthy,](https://www.sciencedirect.com/science/article/abs/pii/S0013935121005338#!) [Lakshmana Reddy N,](https://www.sciencedirect.com/science/article/abs/pii/S0013935121005338#!) [S. Jagadeesh](https://www.sciencedirect.com/science/article/abs/pii/S0013935121005338#!) [Babu,Dinesh Rangappa](https://www.sciencedirect.com/science/article/abs/pii/S0013935121005338#!), [Bhargav U, **V.Preethi**, Mamatha Kumari, Shankar](https://www.sciencedirect.com/science/article/abs/pii/S0013935121005338#!) [MV,,](https://www.sciencedirect.com/science/article/abs/pii/S0013935121005338#!) Utilizing 2D Materials to Enhance H2 Generation Efficiency via Photoreforming Industrial and Solid Waste, [Environmental Research](https://www.sciencedirect.com/science/journal/00139351), 2021,111239.
12. Neelmudiyon VT, **Preethi V\***, Impact on Deevanur tank irrigation system using buried PVC pipe line – A case study, Materials Today Proceedings, 2021 <https://doi.org/10.1016/j.matpr.2021.04.542>.
13. Selvarani B, Preethi V\*, Investigational study on optimum content of GGBS and fibres in fibre non-breakable self-compacting concrete, Materials Today Proceedings 47, 2021.DOI:10.1016/j.matpr.2021.05.027
14. M.Jothilingam and V.Preethi, Feasibility, compressive strength and utilization of redmud in geopolymer concrete for sustainable constructions, Available online 16 March 2021. <https://doi.org/10.1016/j.matpr.2021.01.535>.
15. Raja, M.A., Preethi, V., Pal, Y., Nalajala, N., Gopinath, C.S., Photocatalytic Hydrogen Production from H2S using Nanostructured CNT blended CdZnS/Fe2O3 Thin Film on Glass Substrate, Journal of Physics: Conference Series 2020.
16. [Sankar Sekar](https://www.researchgate.net/profile/Sankar_Sekar2?_sg%5B0%5D=CrG9rqODgT8X8xnqO3M0FluJgrih_7mBeo_ynFLi49yz6oDILDjHicpSDRwKXz1GGJg4Qj8.mVtoe2Y235oeyJUapbzvgNe9x8WzELm6lPyUeIUfS1-p-7zNvLqMgazM4seKIogUyAkQHhKAXO91FVAbdXo3rA&_sg%5B1%5D=tC15NySqgrexL5qdUZREC0Nh5dzNaj_cgkT1Y97nWGHXLopsCHc2apDE3gtmlaPDzCbGU2s.jHvsMrJjTkSdXvbU2naeV3DX3V3KMRwu0vsLzHprdKbdMIImghE-IMvs-mwSDh0-rbUqpnSEKkhjl_jusxkj9Q), [Sejoon Lee](https://www.researchgate.net/scientific-contributions/72015589-Sejoon-Lee?_sg%5B0%5D=CrG9rqODgT8X8xnqO3M0FluJgrih_7mBeo_ynFLi49yz6oDILDjHicpSDRwKXz1GGJg4Qj8.mVtoe2Y235oeyJUapbzvgNe9x8WzELm6lPyUeIUfS1-p-7zNvLqMgazM4seKIogUyAkQHhKAXO91FVAbdXo3rA&_sg%5B1%5D=tC15NySqgrexL5qdUZREC0Nh5dzNaj_cgkT1Y97nWGHXLopsCHc2apDE3gtmlaPDzCbGU2s.jHvsMrJjTkSdXvbU2naeV3DX3V3KMRwu0vsLzHprdKbdMIImghE-IMvs-mwSDh0-rbUqpnSEKkhjl_jusxkj9Q), [**Preethi Vijayarengan**](https://www.researchgate.net/profile/Preethi_Vijayarengan?_sg%5B0%5D=CrG9rqODgT8X8xnqO3M0FluJgrih_7mBeo_ynFLi49yz6oDILDjHicpSDRwKXz1GGJg4Qj8.mVtoe2Y235oeyJUapbzvgNe9x8WzELm6lPyUeIUfS1-p-7zNvLqMgazM4seKIogUyAkQHhKAXO91FVAbdXo3rA&_sg%5B1%5D=tC15NySqgrexL5qdUZREC0Nh5dzNaj_cgkT1Y97nWGHXLopsCHc2apDE3gtmlaPDzCbGU2s.jHvsMrJjTkSdXvbU2naeV3DX3V3KMRwu0vsLzHprdKbdMIImghE-IMvs-mwSDh0-rbUqpnSEKkhjl_jusxkj9Q)\*, Kalirajan KM, Santhakumar T, Saravanan Sekar, Sudha S, Upcycling of Wastewater via Effective Photocatalytic Hydrogen Production Using MnO2 Nanoparticles-Decorated Activated Carbon Nanoflakes, Nanomaterials 10, 2020, 1610.
17. S[ankar Sekar](https://www.researchgate.net/profile/Sankar_Sekar2?_sg%5B0%5D=CrG9rqODgT8X8xnqO3M0FluJgrih_7mBeo_ynFLi49yz6oDILDjHicpSDRwKXz1GGJg4Qj8.mVtoe2Y235oeyJUapbzvgNe9x8WzELm6lPyUeIUfS1-p-7zNvLqMgazM4seKIogUyAkQHhKAXO91FVAbdXo3rA&_sg%5B1%5D=tC15NySqgrexL5qdUZREC0Nh5dzNaj_cgkT1Y97nWGHXLopsCHc2apDE3gtmlaPDzCbGU2s.jHvsMrJjTkSdXvbU2naeV3DX3V3KMRwu0vsLzHprdKbdMIImghE-IMvs-mwSDh0-rbUqpnSEKkhjl_jusxkj9Q), [Sejoon Lee](https://www.researchgate.net/scientific-contributions/72015589-Sejoon-Lee?_sg%5B0%5D=CrG9rqODgT8X8xnqO3M0FluJgrih_7mBeo_ynFLi49yz6oDILDjHicpSDRwKXz1GGJg4Qj8.mVtoe2Y235oeyJUapbzvgNe9x8WzELm6lPyUeIUfS1-p-7zNvLqMgazM4seKIogUyAkQHhKAXO91FVAbdXo3rA&_sg%5B1%5D=tC15NySqgrexL5qdUZREC0Nh5dzNaj_cgkT1Y97nWGHXLopsCHc2apDE3gtmlaPDzCbGU2s.jHvsMrJjTkSdXvbU2naeV3DX3V3KMRwu0vsLzHprdKbdMIImghE-IMvs-mwSDh0-rbUqpnSEKkhjl_jusxkj9Q), [**Preethi Vijayarengan**](https://www.researchgate.net/profile/Preethi_Vijayarengan?_sg%5B0%5D=CrG9rqODgT8X8xnqO3M0FluJgrih_7mBeo_ynFLi49yz6oDILDjHicpSDRwKXz1GGJg4Qj8.mVtoe2Y235oeyJUapbzvgNe9x8WzELm6lPyUeIUfS1-p-7zNvLqMgazM4seKIogUyAkQHhKAXO91FVAbdXo3rA&_sg%5B1%5D=tC15NySqgrexL5qdUZREC0Nh5dzNaj_cgkT1Y97nWGHXLopsCHc2apDE3gtmlaPDzCbGU2s.jHvsMrJjTkSdXvbU2naeV3DX3V3KMRwu0vsLzHprdKbdMIImghE-IMvs-mwSDh0-rbUqpnSEKkhjl_jusxkj9Q)**\***, Biomass Activated Carbon-Decorated Spherical β-Ni(OH)2 Nanoparticles for Enhanced Hydrogen Production, Journal of Water Process Engineering (accepted for publication), Sep 2020.
18. Hariram Venkatesan, Godwin John John Rose, **Preethi Vijayarengan**,Seralathan Sivamani, Jagannathan Krishnan, Micha Premkumar T, Predicting the combustion behaviour of compression ignition engine fuelled with biodiesel from Stoechospermum marginatum, a macro algae, Environmental Science and Pollution Research, DOI:[10.1007/s11356-020-10048-z](https://www.researchgate.net/deref/http%3A%2F%2Fdx.doi.org%2F10.1007%2Fs11356-020-10048-z?_sg%5B0%5D=S1-Wd6SBFOMf6zqaNuFWuKWgC5dV2-XuZ7OW7FxflNSmYgN9TeDnAOsjZSQd-1p0gCj-4wvO1_xbL0yunRsry9R2sQ.jTcem5iI9UuY3KetQg0W9OKv8Y8PYgftUMIQOQv3PS8XktyhnLZ-nEVrTL84x_-EIy4KZNfdvFoxvjPxus90tg), July 2020.
19. V[. T. Neelmudiyon](https://www.researchgate.net/scientific-contributions/V-T-Neelmudiyon-2180751378?_sg%5B0%5D=-jDIQ3RMS4EK9DrOMxLRBIAx0z31KIi3JcpWK-VF0JdYr2o5MxNdsJlqB_8KExksBWSpjrM.8q-u_OFAWJAQLz3G8MqOricndVGlMD_9EuAayR2oLMjpFstw6KEsqwdFIgfGct5WVL-2eIhmHy3JuAQMrTLjWg&_sg%5B1%5D=Ujxw0DqJp2vrUGyZXzeeMrMDElO6t7UBzcFydNXPM0ASCMbX1TAc0Pw20AChfqMf1NA-b9g.z7QQh17pfgZCyeLbmhTtQJSNfQtDtwpN83a6Yjo7MU4voKYtn0elZsR6t1zcigNGDFWUU4TkSzb-qYLxq0_pxA), [**Preethi Vijayarengan**](https://www.researchgate.net/profile/Preethi_Vijayarengan?_sg%5B0%5D=-jDIQ3RMS4EK9DrOMxLRBIAx0z31KIi3JcpWK-VF0JdYr2o5MxNdsJlqB_8KExksBWSpjrM.8q-u_OFAWJAQLz3G8MqOricndVGlMD_9EuAayR2oLMjpFstw6KEsqwdFIgfGct5WVL-2eIhmHy3JuAQMrTLjWg&_sg%5B1%5D=Ujxw0DqJp2vrUGyZXzeeMrMDElO6t7UBzcFydNXPM0ASCMbX1TAc0Pw20AChfqMf1NA-b9g.z7QQh17pfgZCyeLbmhTtQJSNfQtDtwpN83a6Yjo7MU4voKYtn0elZsR6t1zcigNGDFWUU4TkSzb-qYLxq0_pxA), [S.Govindarajan](https://www.researchgate.net/scientific-contributions/2180751603-SGovindarajan?_sg%5B0%5D=-jDIQ3RMS4EK9DrOMxLRBIAx0z31KIi3JcpWK-VF0JdYr2o5MxNdsJlqB_8KExksBWSpjrM.8q-u_OFAWJAQLz3G8MqOricndVGlMD_9EuAayR2oLMjpFstw6KEsqwdFIgfGct5WVL-2eIhmHy3JuAQMrTLjWg&_sg%5B1%5D=Ujxw0DqJp2vrUGyZXzeeMrMDElO6t7UBzcFydNXPM0ASCMbX1TAc0Pw20AChfqMf1NA-b9g.z7QQh17pfgZCyeLbmhTtQJSNfQtDtwpN83a6Yjo7MU4voKYtn0elZsR6t1zcigNGDFWUU4TkSzb-qYLxq0_pxA), 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.
20. V. Navakoteswara Rao, N. Lakshmana Reddy, M. Mamatha Kumari, P. Ravi, M. Sathish, K.M. Kuruvilla, **V. Preethi**\*, K. Raghava Reddy, T.M. Aminabhavi\*, M.V. Shankar\*., Photocatalytic H2 production coupled with pollutant removal from sulphide wastewater: Surface and interface control of photo-excitons in Cu2S@TiO2 core-shell nanostructures, Applied Catalysis B Environmental 254, (2019) 174-185.
21. S.N.Mohamed\*, **Preethi V\*** and Matheswaran M, Enhancing biohydrogen production from sugar industry wastewater using metal oxide/graphene nanocomposite catalysts in microbial   
    electrolysis cell, International Journal of Hydrogen Energy, 45 (2020) 7647-7655.
22. **Preethi V\*,** Anthony Raja, Performance of Square and Trapezoidal Photoreactors for Solar Hydrogen Recovery from Various Industrial Sulphide Wastewater using CNT & Ce3+ doped TiO2, International Journal of Hydrogen Energy, 45 (2020) 7616-7626.
23. 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.
24. A.Madhumitha, **V.Preethi\*** and S.Kanmani, Photocatalytic Hydrogen Production using TiO2 Coated Iron-Oxide Core Shell Particles, International Journal of Hydrogen Energy, 43 (2018) 3946-3956.
25. Bharatvaj J, **Preethi V\*** and Kanmani S, Hydrogen Production from SulphideWastewater using Ce3+–TiO2 Photocatalysis, International Journal of Hydrogen Energy, 43 (2018) 3935-3945.
26. **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.
27. **V. Preethi\*** and Kanmani S, Optimization of operating parameters for gasphase Photocatalytic splitting of H2S by novel vermiculate packed tubular reactor, Journal of Environmental Management, 181, 674-680, 2016
28. **V. Preethi\*** & Kanmani S, Performance of gasphase reactors on hydrogen recovery from industrial waste gases, Int. J Hyd. Energy 42 (2017) 8997-9002
29. **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.
30. **V. Preethi\*** and S. Kanmani, Photocatalytic hydrogen recovery using Fe2O3 core shell nano particles, International J Hydrogen Energy 39 (2014) 1613-1622.
31. V**. Preethi\*** and S. Kanmani, Photocatalytic Hydrogen Production, Material Science in Semiconductor Processing, 16 (2013) 561–575.

32.**V. Preethi\*** and S. Kanmani, Photocatalytic hydrogen production over CuGa2-xFexO4 Spinel, International Journal of Hydrogen Energy, 37 (2012) 18740-18746.

**Book and Book chapters:**

1.Preethi, , M. Mamatha Kumari, N. Ramesh Reddy, U. Bhargav, K.K.Cheralathan, C.H.Shilpa Chakra and M.V.Shankar, Chapter 2: Recent Progress in Photocatalytic Water Splitting by Nanostructured TiO2-Carbon Photocatalysts – Influence of Interfaces, Morphological Structures and Experimental Parameters, [Integrating Green](https://onlinelibrary.wiley.com/doi/book/10.1002/9781119509868) [Chemistry and Sustainable Engineering,](https://onlinelibrary.wiley.com/doi/book/10.1002/9781119509868) Wiley Online library, 27 March 2019, <https://doi.org/10.1002/9781119509868.ch2>

2..S.Saravanan, B.Stalin, M.Ravichandran, S.Sankar, **V.Preethi,** Fundamentals of Nanoscience, Arunai Publications Private Limited, Revised Edition 17th, July 2019, ISSN 978-81-938294-0-0.

**Awards and Honours:**

1. Received FIRST PRIZE for a oral presentation entitled “Overview of Nano materials for hydrogen production” in the National conference “Nano Technology: Applications and its advantages in natural sciences”, held on 4th-5th February 2010 at Manonmanium Sundaranar University, Thirunelveli.
2. Received the NCHEAM SCIENTIST OF THE YEAR AWARD on the occasion of ‘4th National Convection on Hydrogen Energy and Advanced Materials (NCHEAM’15)’ organized by Energy Centre, MANIT, in association with University of Kerala & IAHEAM from 28-29th November, 2015.
3. Received a SPECIAL AWARD from Hindustan Institute of Technology and Science on 24th January 2016, for getting a DST funded research project 'Recovery of Hydrogen from Industrial Waste Streams'.
4. Received a Research Award for being active in research work, from Hindustan Institute of Technology and Science on 3rd May 2016 during the annual day 2015-16
5. Received Hindustan Innovative Awards 2017 for the innovative research on CO2 Sequestration’
6. Received Award Young Faculty in Envionmental Engineering 2017 by Venus International Foundation.
7. Received fund of Rs.2,00,000/- from DST-SERB, Government of India for conducting an International conference Sustainable Environment and Energy (ICSEE 2017).
8. Received Travel Grant from SERB to participate in an International Conference ‘Pollution Control 2017’ held in Melbourne during July 2017.
9. Received fund of $2500 from International Association of Hydrogen Energy, USA to present a paper in World Hydrogen Energy Congress 2018, Rio de Janeiro, Brazil during 17-22, June 2018.
10. Received fund of Rs.2,00,000/- from DST-SERB, Government of India for conducting the second International conference Sustainable Environment and Energy (ICSEE 2019).
11. Received grant as visiting researcher from Universiti de La Laguna, Canary Islands, Spain for the year2022.
12. Received fund of Rs.25,000/- from Indian Science Congress Association (ISCA) and organized 3rd International Conference on Sustainable Environment, Energy and Construction (ICSEEC-2021) during 16th and 17th December 2021.
13. Received research article publication award from HITS for publishing in high impact peer reviewed journal in the academic year 2022.
14. Received research promotion award for completing the SERB funded project from HITS for the year 2022.

##### Guest Lecture Delivered:

1. Delivered a Guest Lecture on ‘Advances in Composting Processes’ in FDP on Solid Waste Management organized at Civil Department, Hindustan University, Chennai from 22nd to 23rd July 2016.
2. Delievered an Invited Talk on ‘Liquid and Gas-phase Hydrogen Production from Industrial Sulphide Waste’ at Melbourne University, Australia during 25th July 2017
3. Delivered an Invited Talk on ‘Outdoor Solar Studies on Photocatalytic Hydrogen Production’ at Deakin University, Australia – 26.07.2017.
4. Delievered an Invited Talk on ‘Effect on Sulphide on Environment and its Treatment Methods’ at University Federal de Juiz de For a, Brazil – 20.06.18
5. Delivered an Invited Talk on ‘Nanomaterials for Hydrogen Production’ in an International Conference on Applied Nanoscience and Nanotechnology (ICANN-2019), organized by Nanoscience and Technology, Alagappa University, Karaikudi, Tamilnadu, India- 22.02.19.
6. Delivered Keynote Speech on ‘Solar Hydrogen Production and selection of nano materials’ in an International Conference on Sustainable Environment and Social Management (ICESM 2019), 12-13, Nov.,2019 – Organized by UMP Consultancy, Malaysia.
7. Delivered Keynote Speech on ‘Solar Assisted Energy Production from Industrial Wastewater’ in an International Conference on RACEEE 2020, - organized by SSN College, 13-14, February 2020, Chennai
8. Delivered an online Invited Talk on Recovery of Energy from Waste to the Department of Chemical Engineering, Universiti Malaysia Pahang, Malaysia on 22.05.2020.
9. Delivered an online keynote speech on ‘Mitigation strategies of hydrogen sulphide emission’, AICTE sponsored STTP, Disaster mitigation organized by Crescent Institute of Science & Technology on 17.11.2020.
10. Delivered an online keynote speech on ‘Photocatalytic hydrogen production’, virtual national workshop on Advanced materials for energy and environment applications (AMEEA2020) - 22.12.2020 organized by Yogi Vemana University, Kudapa, AP..
11. Delivered an invited talk on Climate change effects on agriculture, World Technological University Congress UK 18th – 21st, October 2021
12. Delivered an invited talk on Solar hydrogen production from Industrial wastewater, Training Programme on Promoting Climate Resilient Industries, WASMANPRO, Chennai 20th, July 20, 2022.

##### Conference Organized:

1. International Conference Organized and Conducted **–** International Conference on Sustainable Environment and Energy (ICSEE 2017) held at HITS, Chennai during 6th &7th , April 2017.
2. Convener for Second International Conference on Sustainable Environment and Energy (ICSEE 2019), held at HITS, Chennai during 21st -22nd, February 2019.
3. Convener for third International Conference on Sustainable Environment Energy and Construction (ICSEEC2021) HITS Chennai during 16th and 17th, December 2021.

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