Dr. M. Mahalakshmi
Assistant Professor,
Department of chemistry
SSN College of Engineering
E-Mail: mahalakshmim@ssn.edu.in
Mobile: 044-27469700

Last five years publication list:

1. Subha, N., Mahalakshmi, M., Monika, S., & Neppolian, B. (2020). Ni (OH) 2-CuxO-TiO2 nanocomposite for the enhanced H2 production under solar light: The mechanistic pathway. *International Journal of Hydrogen Energy*, *45*(13), 7552-7561.
2. Subha, N., Mahalakshmi, M., Myilsamy, M., Neppolian, B., & Murugesan, V. (2019). The influence of n-type and p-type dopants on the interfacial charge transfer and the band structure of Bi2MoO6 to enhance solar H2 production. *Journal of Photochemistry and Photobiology A: Chemistry*, *379*, 150-158.
3. Subha, N., Mahalakshmi, M., Myilsamy, M., Neppolian, B., & Murugesan, V. (2018). Direct Z-scheme heterojunction nanocomposite for the enhanced solar H2 production. *Applied Catalysis A: General*, *553*, 43-51.
4. Subha, N., Mahalakshmi, M., Myilsamy, M., Reddy, N. L., Shankar, M. V., Neppolian, B., & Murugesan, V. (2018). Effective excitons separation on graphene supported ZrO2TiO2 heterojunction for enhanced H2 production under solar light. *International Journal of Hydrogen Energy*, *43*(8), 3905-3919.
5. Myilsamy, M., Mahalakshmi, M., Subha, N., & Murugesan, V. (2018). Mesoporous Ga–TiO2: Role of Oxygen Vacancies for the Photocatalytic Degradation Under Visible Light. *Journal of nanoscience and nanotechnology*, *18*(2), 925-935.
6. Subha, N., Mahalakshmi, M., Myilsamy, M., Reddy, N. L., Shankar, M. V., Neppolian, B., & Murugesan, V. (2017). Influence of synthesis conditions on the photocatalytic activity of mesoporous Ni doped SrTiO3/TiO2 heterostructure for H2 production under solar light irradiation. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, *522*, 193-206.
7. Myilsamy, M., Mahalakshmi, M., Subha, N., Rajabhuvaneswari, A., & Murugesan, V. (2016). Visible light responsive mesoporous graphene–Eu 2 O 3/TiO 2 nanocomposites for the efficient photocatalytic degradation of 4-chlorophenol. *RSC Advances*, *6*(41), 35024-35035.

8. Myilsamy, M., Mahalakshmi, M., Murugesan, V., & Subha, N. J. A. S. S. (2015). Enhanced photocatalytic activity of nitrogen and indium co-doped mesoporous TiO2 nanocomposites for the degradation of 2, 4-dinitrophenol under visible light. *Applied Surface Science*, *342*, 1-10.
9. Myilsamy, M., Murugesan, V., & Mahalakshmi, M. (2015). The effect of synthesis conditions on mesoporous structure and the photocatalytic activity of TiO2 nanoparticles. *Journal of nanoscience and nanotechnology*, *15*(6), 4664-4675.
10. Myilsamy, M., Murugesan, V., & Mahalakshmi, M. (2015). Indium and cerium co-doped mesoporous TiO2 nanocomposites with enhanced visible light photocatalytic activity. *Applied Catalysis A: General*, *492*, 212-222.