

Name : Dr. M. Myilsamy
Designation : Assistant Professor
Department : Chemistry
Qualification : M.Sc., B.Ed., M.Phil., Ph.D.
Experience : Teaching: 2.10 Years Industry: Nil Research: 5 years
Area of Specialization(s) : Photocatalysis and Nanotechnology
Email (Official ID) : myilsamy@drngpasc.ac.in



Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.	Chemistry	SSN College of Engineering, Anna University, Chennai	2018
M.Phil.	Chemistry	Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Bharathiar University, Coimbatore.	2013
B.Ed	Physical Sciences	Government College of Education, Komarapalayam, Tamil Nadu Teachers Education University, Chennai	2010
M. Sc	Chemistry	Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Bharathiar University, Coimbatore.	2009
B. Sc	Chemistry	Gobi Arts and Science College, Bharathiar University, Coimbatore.	2007

Research Publications (Indexed)

International

1. T.Usharani , R. Basker, B. Palanisamy, M. Myilsamy, **Efficient photocatalytic degradation of 2,4-dinitrophenol over mesoporous Zr and Ce co-doped TiO₂ under Visible light**, Journal of Desalination and Water Treatment Vol. 217 (2021) pp. 320-328, ISSN: 1944-3994 (Indexed in SCI).
2. M. Myilsamy, M. Mahalakshmi, N. Subha, V. Murugesan, **Mesoporous Ga-TiO₂: Role of oxygen vacancies for the photocatalytic degradation under visible light**, Journal of Nanoscience and Nanotechnology, Vol. 17 pp. 1-11, 2017, ISSN: 1533-4880, (Indexed in SCI).
3. M. Myilsamy, M. Mahalakshmi, N. Subha, A. Rajabhuvaneswari, V. Murugesan, **Visible light responsive mesoporous graphene-Eu₂O₃/TiO₂ nanocomposites for the efficient photocatalytic degradation of 4-chlorophenol**, RSC Advances, Vol. 6, pp. 35024-35035, 2016, ISSN: 2046-2069, (Indexed in SCI).
4. M. Myilsamy, V. Murugesan, M. Mahalakshmi, **The effect of synthesis conditions on mesoporous structure and the photocatalytic activity of TiO₂ nanoparticles**, Journal of Nanoscience and Nanotechnology, Vol. 15, pp. 4664-4675, 2015, ISSN: 1533-4880, (Indexed in SCI).

5. M. Myilsamy, V. Murugesan, M. Mahalakshmi, **Indium and cerium co-doped mesoporous TiO₂ nanocomposites with enhanced visible light photocatalytic activity**, *Applied Catalysis A: General*, Vol. 492, pp. 212-222, 2015, ISSN: 0926-860X, (Indexed in SCI).
6. M. Myilsamy, M. Mahalakshmi, V. Murugesan, N. Subha, **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*, Vol. 342, pp. 1-10, 2015, ISSN: 0169-4332, (Indexed in SCI).
7. N. Subha, M. Mahalakshmi, M. Myilsamy, N. Lakshmana Reddy, M.V. Shankar, B. Neppolian, V. Murugasen, **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*, Vol. 522, pp. 193-206, 2017, ISSN: 0927-7757, (Indexed in SCI).
8. N. Subha, M. Mahalakshmi, M. Myilsamy, N. Lakshmana Reddy, M.V. Shankar, B. Neppolian, V. Murugasen, **Effective excitons separation on graphene supported ZrO₂-TiO₂ heterojunction for enhanced H₂ production under solar light**, *International Journal of Hydrogen energy*, Vol.43 pp. 3905- 3919, 2018, ISSN: 0360-3199, (Indexed in SCI).
9. N. Subha, M. Mahalakshmi, M. Myilsamy, B. Neppolian, V. Murugesan, **Direct Z-Scheme heterojunction nanocomposite for the enhanced solar H₂ production**, *Applied Catalysis A-General*, Vol. 553, pp. 43-51, 2018, ISSN: 0926-860X, (Indexed in SCI).
10. M. Myilsamy, M. Mahalakshmi, N. Subha, V. Murugesan, B. Neppolian, **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 PhotobiologyA: Chemistry*, Vol. 379, pp. 150-158, 2019 ISSN: 1010-6030, (Indexed in SCI).

Presentations in Conference

1. **Synergistic effect of metal oxides co-doped mesoporous TiO₂ nanocomposites with enhanced visible light photocatalytic activity**”National Conference on Recent Advances in Nanotechnology, Chemistry and Environmental Research (RANCER 2014), Kongu Engineering College, Perundurai, Erode (Dt), 11-12 December 2014.
2. **Synergistic effect of indium and cerium co- doped mesoporous TiO₂ nanocomposites with enhanced visible light photocatalytic activity ”** National Seminar on Recent Advances in Functional Materials (RAFM- 2015), Yogi Vemana University, Kadapa, Andhra Pradesh, 15th March 2015

Participation in Conference

International

Second International Conference on Advanced Oxidation Processes (AOP 2012) Organized by Mahatma Gandhi University, Kottayam, Kerala, during 5-8, 2012,

National

Advanced Materials for the Emerging Technologies (CAMET- 2013) organized by Sri Ramakrishna Mission Vidyalaya College of Arts & Science, Coimbatore, 11-12 July 2013.

Participation in Workshop

Workshop on “ Photocatalysis for Sustainability- Fundamentals and Applications, organized by BIT, Anna University, Tiruchirappalli, 9th October 2013,

Participation in Orientation Programme / Short Term Courses

Short Course on “ Photo-Electrochemistry and Photocatalysis, Organized by NCCR, Indian Institute of Technology, Chennai, During 15-19 December 2012.

Participation in Faculty Development Programme

1. Faculty development Programme on Art of Effective Teaching, organized by the Department of B.Com (Accounting & Finance) and B.Com (Business Analytics) jointly with GLOBALFTI Ltd on 12th February 2020.
2. Seven Day Faculty Development Programme on NAAC revised Accreditation Framework and OBE Assessment Methodology, Organized by Faculty Development Cell & IQAC at Dr. N. G.P Arts & Science College, Coimbatore, during May 27- June 02 2019.