



Dr.M. Arunachalapandi, M.Sc.,M.Phil.,Ph.D,

Assistant Professor / Chemistry

Dr.Sivanthi Aditanar College of Engineering Tiruchendur

Area of Specialization : Photocatalysis

List of Publications :

1. **Arunachalapandi, M.** and Roopan, S. M. (2021). Ultrasound/visible light-mediated synthesis of N-heterocycles using g-C₃N₄/Cu₃TiO₄ as sonophotocatalyst, *Research on Chemical Intermediates*, 1-16. (Impact Factor - 2.914).
2. **Arunachalapandi, M.**, Chellapandi, T., Madhumitha, G., Manjupriya, R., Aravindraj, K., and Roopan, S. M. (2022). Direct Z-Scheme g-C₃N₅/Cu₃TiO₄ Heterojunction Enhanced Photocatalytic Performance of Chromene-3-arbonitriles Synthesis under Visible Light Irradiation. *Catalysts*, (2022), 12(12), 1593. (Impact Factor - 4.6).
3. **Arunachalapandi, M.**, and Roopan, S. M. Visible light-activated Cu₃TiO₄ photocatalyst for the one-pot multicomponent synthesis of imidazo-pyrimido acridines. *Inorganic Chemistry Communications*, (2023), 148, 110310. (Impact Factor - 3.4).
4. **Arunachalapandi, M.**, and Roopan, S. M. Photo-triggered sustainable synthesis of quinazolinone derivatives using visible light active exfoliated g-C₃N₄/Cu₃TiO₄ as a heterogeneous photocatalyst. *Inorganica Chimica Acta*, (2023), 546, 121322. (Impact Factor - 3.1)
5. **Arunachalapandi M** and Roopan S. M. (2022). Environment Friendly g-C₃N₄- used Catalysts and Their Recent Strategy in Organic Transformations, *High Energy Chemistry*, 2022, Vol. 56, No. 2, pp. 73–90. (Impact Factor - 0.921).
6. Joy, M., Chandrasekharan, G., Khan, M. A., **Arunachalapandi, M.**, Chellapandi, T., Harish, D., and Roopan, S. M. (2022). Citrus lemon mediated green synthesis of ZnTiO₃ nanospheres for the degradation of petrochemical wastewater. *Environmental Quality Management*, 32(1), 159-169.
7. Chellapandi, T., Madhumitha, G., Roopan, S. M., Manjupriya, R., **Arunachalapandi, M.**, Pouthika, K., and Elamathi, M. (2023). Facile synthesis route for visible active gC₃N₅/MK30 nanocomposite and its computationally guided photocatalytic degradation of organic pollutants. *Separation and Purification Technology*, 307, 122865.
8. Sompalle, R., Roopan, S. M., Priya, D. D., Suthindhiran, K., Sarkar, G., Ranjith, M., and **Arunachalapandi, M.** (2020). Microwave-Assisted Synthesis of Positional Isomeric Dihydro-triazolo-pyrimido-acridines and Biological studies. *ChemistrySelect*, 5(10), 3085-3090.

CONFERENCES& SEMINARS

1. Arunachalapandi, M., Presented a poster presentation in “National Conference on Frontiers in Ecobiological sciences and its applications (FESA-2018)” held at Periyar University, Salem, Tamilnadu, on 7 -9th Feb 2018..
2. Arunachalapandi, M., Presented an oral in international conference on “Innovative trends in chemical sciences (ITCS-2019)” in on held at Devanga Arts College, Tamilnadu during 4-5th Feb 2019.
3. Arunachalapandi, M., Presented an oral presentation in an international conference on “Recent advances in materials for energy and environmental remediation (RAMEER-2018)” held at VHNSN College, Virudhunagar during 28 – 29th June 2018.
4. Arunachalapandi, M., Participated in “International E-Conference on Advances in Science and Technology for betterment of health, Energy and environment” organised by GITAM School of Science, Bengaluru, Karnataka, India during 1 – 3th Dec 2020.
5. Arunachalapandi, M., Participated in the International E- Conference on “Advanced Materials Science and Graphene Nanotechnology” organised by Southern Federal University, Russia on 25-26th Nov 2020.

ACHIEVEMENTS

Won best poster presentation in National Conference on Frontiers in Ecobiological sciences and its applications (FESA-2018) held at Periyar university, Salem, Tamilnadu, on 7 -9th Feb 2018 for research paper entitled “Synthesis of quinoxalines using HPW12O40 supported on MK-10 nanocomposite as catalyst”.