

**Dr. T. V. Rajendran**

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Dr. G. Venkat Kumar embarked on his academic journey with B.Sc and M.Sc. in Chemical Science from University of Madras in 2010. His insatiable curiosity led him to earn a Ph.D. in Polymer Chemistry from Presidency College in 2017. Driven by his passion for scientific advancement, He authored ten research articles, four review articles in esteemed international peer-reviewed journals, amassing over 300 citations and achieving an impressive H-index of 5. His influence is profound. Beyond research, He excelled in education, shaping young minds during his five-year tenure as a University-level educator. As an Assistant Professor in the Department of Chemistry at SRMIST, Ramapuram campus, Chennai, India, he continues to inspire through his dedication to scientific inquiry, commitment to education, and significant contributions to Science.

**Area of Research:**

Polymer nanocomposites, Energy storage materials and Photocatalysts

**Selected Publications:**

1. H<sub>2</sub>O<sub>2</sub> scavenging and biocompatibility assessment of biosynthesized cellulose/Fe<sub>3</sub>O<sub>4</sub> nanocomposite showed superior antioxidant properties with increasing concentration, T.V. Rajendran, M.V. Arularasu, B Venkatadri, A. Muthukrishnaraj, , K Qi, Journal of Molecular Structure, 2023, 135838
2. Solid composite electrolyte formed via CeO<sub>2</sub> nanoparticles and supramolecular network material for lithium-ion batteries, T.V. Rajendran, VR Dharmaraj, RJ Chung, MV Arularasu, , K Kaviyarasu, Journal of the Australian Ceramic Society, 2023, 1-11
3. Synthesis and characterisation of manganese and nickel doped zinc oxide nanoparticles: photocatalytic and antibacterial activity, T.V. Rajendran, M Prakash, HP Kavitha, S Abinaya, , International Journal of Nanoparticles, 2022, 14 (2-4), 260-276

4. Recent advantages of zinc oxide/carbon nanotubes/reduced graphene Oxide based nanocomposite for the visible light photodegradation, T.V. Rajendran, MV Arularasu, M. Sendhil, , G Mani, AM Aljuwayid, Inorganic Chemistry Communications, 2022, 139, 109332
5. PVDF/ZnO hybrid nanocomposite applied as a resistive humidity sensor, T. V Rajendran, M.V Arularasu, M Harb, R Vignesh, , R Sundaram, Surfaces and Interfaces, 2020, 21, 100780
6. Comparative investigation of cobalt ferrite ( $\text{CoFe}_2\text{O}_4$ ) and cadmium ferrite ( $\text{CdFe}_2\text{O}_4$ ) nanoparticles for the structural, optical properties and antibacterial activity, Rajendran T.V, Anusa Rand Arularasu. V “Digest Journal of Nanomaterials and Biostructures”, 2019, 14,2, 367-374.
7. An innovative approach for green synthesis of iron oxide nanoparticles: Characterization and its photocatalytic activity, Rajendran T.V and Arularasu. V “Polyhedron”, 2018, 156, 279-290.
8. Preparation, Characterisation and Conductivity studies of Supramolecular polymer/Ferrite Nanocomposites, Rajendran T.V and Jaisankar V “Materials Today: Proceedings”, 2015, 2, 4421 – 4428 (Elsevier).

#### **Professional Bodies:**

Member – ACT, SACSE

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**Scopus Author ID:** <https://www.scopus.com/authid/detail.uri?authorId=57205033729>

**Google Scholar Link:** <https://scholar.google.co.in/citations?user=ZpXo6J4AAAAJ&hl=en>