


Biodata

Name	Dr. T. Radhika	
Designation	Scientist C	
Educational qualification	M.Sc. from Cochin University of Science and Technology, Cochin, Kerala M.Phil. from Cochin University of Science and Technology, Cochin, Kerala P.hD. from Cochin University of Science and Technology, Cochin, Kerala	
Experience	<u>Research Associate:</u> National Centre for Catalysis Research, Department of Chemistry, Indian Institute of Technology, Madras, Tamilnadu, India. <u>Postdoctoral Fellow:</u> School of Chemical Sciences, Universiti Sains Malaysia, Penang, Malaysia	
Research area	Nanomaterials, Photocatalysis, Hydrogen generation, Photochromic Materials, Thermoelectric Materials, Piezoceramics, MXene	
Recognised Awards/Honors/Fellow	Nil	
Projects	<p>a. Ongoing</p> <p>1. Indigenization of Amplified Linear Piezo Actuator for use in Breathing Regulators for Aircrew (EPDBR) (TH/TS/031, Sponsored by DEBEL, DRDO, Govt. of India, Rs. 43.46 lakhs, DoS: 07.07.2018; DoC: 30.07.2020).</p> <p>b. Completed</p> <p>1. Textured PMN-PT based piezoceramics (TH/SP/057, Sponsored by SERB, DST, Govt. of India, Rs. 35.5 lakhs, DoS: 15.12.2015; DoC: 15.12.2018).</p> <p>2. Development of Transition Metals doped TiO₂ Nanomaterials for Hydrogen Generation by Water Splitting (TH/SP/042, Sponsored by BRNS, DAE, Govt. of India, Rs. 25.6 lakhs, DoS: 15.09.2014; DoC: 30.09.2017).</p>	
Patents (Last 5 years only)	1. Lead free glass as microwave dielectric material and glass + ceramic compositions for ultra low temperature Co-firable Ceramic (u-LTCC) application, N. Raghu, Mewin Vincent, Afsal P. M., Vasanthakumari K.G., Susanth S and T. Radhika, Application No.1372/DEL/2015.	

	2. Anorthite based glass + ceramic low temperature co-firable ceramic compositions & method of making green tapes with tailored mechanical properties, N. Raghu, T. Radhika, Vasanthakumari K.G., Susanth S, Mewin Vincent and Afsal P. M., Application No. 2348/DEL/2015.
Publications (Past 5 years)	<ol style="list-style-type: none"> 1. T. Radhika, U.M. Uzma Sulthana, and K. G. Vasanthakumari, Conductive Coatings of 2D MXene-in Water for Electronics Applications, AIP Proceedings, AIPCP20-AR-STAM2020-00039 (accepted June 2020). 2. M. Vincent, V. K. Gopalakrishnan, S. Sivanandan, T. Radhika, N. Raghu, Factors influencing rheological characteristics of silver thick film paste and its correlation to multilayer ceramic processing, Advances in Applied Ceramics, 1-8 (2018). 3. M. Vincent, A. Puthenveetil Mohamed, K.G. Vasanthakumari, T. Radhika, N. Raghu, Influence of Fillers on the Recrystallization Behaviour of 60ZnO-30 B₂O₃-10SiO₂ Glass, Journal of Electro Ceramics, 40 (3) 219–224 (2018). 4. T. Radhika, K.R. Anju, Silpa M.S., R. Jothi Ramalingam, Murugan A. Munusamy, Cellulose acetate/N-TiO₂ biocomposite flexible films with enhanced solar Photochromic Properties, Journal of Electronic Materials 46 (7) 4567-4574 (2017). 5. G. S. Gayathri, K. T. Nithina, K. G. Vasanthakumari, K. M. Blesson, S. Susanth, T. Radhika and N. Raghu, Defect free carbon tapes as thermal fugitives for multilayer ceramic application, Advances in Applied Ceramics 114 (2) 87-92 (2015).
Google scholar link	https://scholar.google.com/citations?user=ZK_QIRQAAAAJ&hl=en
Book Chapter	Chapter titled “Cellulose acetate-TiO ₂ Based Nanocomposite Flexible Films for Photochromic Applications” in Book “Natural Polymers- A Green Approach” edited by Dr. Sabu Thomas, Apple Academic Press, June 2020.