PROFILE

Name	Dr. R. J. Krupadam M.Sc(Tech.), Ph.D., FRSC
Designation	Chief Scientist & Incharge Climate Change & Green
	Co-Chair Environmental Impact Assessment, Audit and
	Planning
	Climate Change Research & CCUS
	• Professor Academy of Scientific & Innovative Research
Qualification	(AcSIR) Post-doc (2000) TU Dortmund Germany
Quanteation	 Ph.D (1999) Jawaharlal Nehru Technological University,
	Hyderabad, India M Sc (Tech.) (1994) Jawabarlal, Nebru, Technological
	University, Hyderabad, India
.	B.Sc (1991) Sri Venkateswara University, Tirupati, India
Experience (in years)	 Scientist at CSIR-NEERI, Nagpur (Since, 2000; 23 Years) Post-graduate teaching at JNTU, Hyderabad (3 Years) &
	Professor, AcSIR (13 Years)
	Professional Assignments
	 Principal Investigator/Coordinator – DST- Centre of Excellence Climate Change Research & Carbon Capture, Utilization and Sequestration – National Mission Project Under National Mission for Strategic Knowledge on Climate Change (Project Budget, Rs. 9.20 Cr)
	 Project Leader – MoEF & CC – CSIR - TANFAMA Public Private Partnership (PPP) Mode Project (Budget, Rs. 15.00 Cr) – Developed National Facility for Testing of Firework Materials & Emissions (RACE Facility) in CSIR-NEERI

•	Project Leader & EIA Coordinator -47 EIA projects (ECF generated, Rs. 52.50 Cr); in these projects 20-25 scientific staff worked as functional area experts (FAEs) under my supervision
•	NABET Approved Functional Area Expert (FAE) – 183 EIA projects (ECF contribution, Rs. 83.00 Cr)
•	NABL Quality Manager – Obtained ISO/IEC 17025 accreditation to CSIR-NEERI for testing of environmental matrices – Air, Water & Wastewater, Soil/Sediment, Solid & Hazardous Waste.
•	NABET Coordinator – Facilitated NABET accreditation to CSIR-NEERI to conduct EIA studies for various sectors and 51 scientists were accredited as FAE and EC during my tenure as the Coordinator
•	AcSIR Coordinator – Coordinated efficiently academic activities (Ph.D program) of CSIR-NEERI Centre of AcSIR and in this academic Centre about 180 Ph.D students are pursuing Academics & Research.
•	Laboratories were planned and established in CSIR- NEERI are:
	1. State-of-the-art molecular modelling and simulation facility for design of environmental materials
	2. Laboratories suitable for testing of firework materials and emissions and
	3. Laboratory useful for greenhouse gases monitoring, testing and RS/GIS-based reporting
	4. Established atomic force microscopy for depicting nano-meter scale morphology of materials
•	As a scientist worked on - EIA, Environmental Policy, Industrial Pollution Control and Management, Molecularly imprinted polymers, Micro/nanoplastics, Graphene and graphene nanocomposites, Firework materials, Computational Chemistry, CCUS and Climate Change Policy & Research
•	Organized 3 International events & 1 National Workshop as Organizing Secretary:
	1. Indo-UK Conference on Molecular imprinting
	2. International Conference on Recent Developments in EIA and
	3. International Conference on Nanobiomaterials
	4. National Conference on "Climate Change Research & CCUS - An Inter-disciplinary Approach"

	 On official deputations, Dr. Krupadam visited countries, 1. United States (Louisiana State University, Baton Rouge, LA; Case Western Reserve University, Cleveland OH); University of New Orleans, LA 2. Germany (TU Dortmund) United Kingdom (University of Leicester; Cranfiled University), Australia (The University of Melbourne), China (Haikou for attending International Conference), Singapore (National University of Singapore), United Arab Emirates (International Assessor for Environmental Testing Laboratories, Dubai), Qatar (International Assessor for Petroleum & NG Refineries, Doha), and Philippines (Philippines Nuclear Research Institute, Manila as a IAEA training on Nuclear & Environmental Pollution Monitoring & Testing) He is a passionate advocate for environmental protection. He is committed to using his research to make a positive impact on the environment.
Expertise (for e.g.: Water, Waste, Energy, Business Development etc.)	 Environmental Processes and Pollution Mitigation Environmental Impact & Risk Assessment developing Management Plans Climate change impacts on air quality, biodiversity and land use land cover changes impacts on microclimate Design and development of processes and materials for the resilience of climate and environment Impact assessment of greenhouse gases and particulates emissions from industrial sources and their fate and transport related to microclimate change predictions Short-lived climate forces Black carbon and organic fraction of particulate matter in radiating force Development of national facilities for firework testing and greenhouse gases Plastic wastes and micro/nanoplastics – analytical techniques and mitigation 2D nanostructures and porous materials for CO₂ capture Computational and combinatorial chemistry for green chemistry and green engineering Carbon foot-printing GHG Inventories – ISO 14060 series
Publications (in Nos.)	 70 (Research Publications in SCI Journals) 286 (EIA Reports) 3 (Laboratory Manuals)

	Selected Publications		
	•	Aquatar MO., Bhatia U., Rayalu SS., Krupadam (2022) Reduced graphene-oxide-MnO2 nanocomposites for CO2 capture from flue gases at elevated temperatures. <i>Science</i> <i>of the Total Environment</i> , 816. https://doi.org/10.1016/j.scitotenv.2021.151522 (JIF, 10.753)	
	•	Sharma MD., Elanjickal AI, Mankar JS, Krupadam (2020) Assessment of cancer risk of microplastics enriched with polycyclic aromatic hydrocarbons. <i>Journal of Hazardous Materials</i> , 398. https://doi.org/10.1016/j.jhazmat.2020.122994 (JIF, 14.224)	
	•	Chatterjee S., Krupadam RJ (2019) Amino acid - imprinted polymers as highly selective CO2 capture materials. <i>Environmental Chemistry Letters</i> , 17. https://doi.org/10.1007/s10311-018-0774-z. (JIF, 15.6)	
	•	Wankar S., Turner NW, Krupadam RJ (2016) Polythiophene nanofilms for sensitive fluorescence detection of viruses in drinking water. <i>Biosensors</i> <i>Bioelectronics</i> , 82. https://doi.org/10.1016/j.bios.2016.03.020. (JIF, 12.6)	
	•	Krupadam RJ, Nesterov EE, Spivak DA (2014) Highly selective detection of oil spill polyaromatic hydrocarbons using molecularly imprinted polymers for marine ecosystems. <i>Journal of Hazardous Materials</i> , 274. https://doi.org/10.1016/j.jhazmat.2014.03.050 (JIF, 14.224)	
	•	Krupadam RJ (2011) An efficient fluorescent polymer sensing material for detection of traces of benzo[a]pyrene in environmental samples. <i>Environmental Chemistry</i> <i>Letters</i> , https://doi.org/10.1016/j.watres.2009.09.044 (JIF, 15.6)	
	•	Krupadam RJ, Khan MS, Wate SR (2010) Removal of probable human carcinogenic polycyclic aromatic hydrocarbons from contaminated water using molecularly imprinted polymers. <i>Water Research</i> , 44. https://10.1016/j.watres.2009.09.044 (JIF, 12.8)	
	•	Krupadam RJ, Bhagat B., Wate SR, Bodhe GL, Sellergren B., Anjaneyulu Y (2009) Fluorescence spectrometer analysis of polycyclic aromatic hydrocarbons in environmental samples based on solid phase extraction using molecularly imprinted polymer. <i>Environmental Science & Technology</i> , 43. https://doi.org/10.1021/es802514c (JIF, 11.357)	
Patents	3		

Honors & Awards	• Fellow, Royal Society of Chemistry (London), FRSC
(11 (11))	• National Award for Technology Development, Govt of India, Ministry of Chemicals and Petro-chemicals
	• Fulbright-Nehru Academic & Professional Excellence Fellow at Case Western Reserve University OH, United States
	• Sir C.V Raman Research Fellow, Louisiana State University, Baton Rouge LA, United Stated
	INSA Visiting Fellow, Indian Institute of Science (IISc) Bangalore
	NEERI Golden Jubilee Outstanding Scientist
	 Executive Board Member, Society for Molecular Imprinting (SMI), United Kingdom
	• Member, International Water Association, United Kingdom
	• Lead Assessor, International Accreditation Services, United States
	• Member, Technical Advisory Committee of Federation of Development of Accreditation Services (FDAS), India
	• Member, Board of Studies, Andhra Kesari University (AKU), Andhra Pradesh, India
	Core Member, DST Expert Committee, FIST Program Environmental & Atmospheric Science
	 Visiting Fellow, Technical University of Dortmund, Germany
	• Visiting Professor, Louisiana State University, Baton Rouge LA, United States
	• Visiting Professor, National University of Singapore
	 Visiting Professor, The University of Melbourne, Australia
	• Visiting Professor, Case Western Reserve University, United States
	• University First Rank for Academic Excellence in M.Sc (Tech.) JNTU Hyderabad
Research Scholars (in Nos.)	Ph.D's Awarded: 5 Ph.D's Ongoing: 3 M.Sc/M.Tech Dissertation students: 41