



Dr. Kavitha Ramadass

Education

- Ph.D. in Environmental Remediation and Public Health, UniSA, Australia 2011
- Master in Environmental Sciences Tamilnadu Agricultural University, India 2004
- Bachelor of Agriculture Tamilnadu Agricultural University, India 2002

Biography

Dr. Kavitha Ramadass is a Post-doctoral researcher in Prof. Ajayan Vinu's group at the Future Industries Institute, University of South Australia, Adelaide, Australia. Kavitha was born in Tamilnadu, South India and got her Bachelor's degree in Agricultural sciences from Tamilnadu Agricultural University, Coimbatore in 2002. She continued in the same university for her Master's course in Environmental Sciences and graduated in 2004. She worked as a research scholar before she moved to Australia in 2008 for her PhD through International Postgraduate Research Scholarship at the Centre for Environmental Risk Assessment and Remediation (CERAR), University of South Australia. Her PhD research topic was on ecotoxicology and bioremediation of total petroleum hydrocarbons. After the completion of PhD, she remained in UniSA for her Post-doctoral position, worked in multiple projects on bioremediation of hydrocarbon-contaminated soils funded by BHP Billiton Iron Ore (BHPBIO) and Co-operative Research Centre for Contamination Assessment and Remediation of the Environment (CRC CARE). Now she is focussing on developing innovative and efficient technologies on environmental remediation, through synthesis of multifunctional nanomaterials owing to its potential for the efficient removal of pollutants and biological contaminants.

Research Interests

- Novel nanoporous materials synthesis and application on CO₂ conversion and energy storage, adsorption and separation of environmental toxins
- Fabrication and textural parameter control of novel nanoporous carbon nitride materials with different nitrogen content
- Preparation and the structural and the morphological design of novel nanoporous carbon with tunable pore diameters
- Synthesis, characterization and catalytic applications of metal doped mesoporous Carbon nitrides

- Fine chemical synthesis using nanostructured catalytic materials
- Environmental application of novel nanoporous materials for adsorption and removal of environmental contaminants
- Synthesis of value added product (manure) from solid waste composting and its application.
- Environmental Remediation particularly in relation to hazard characterization, risk assessment, and regulatory aspects of chemicals and nanomaterials

Professional History

- Research Associate, Future Industries Institute, University of South Australia, Mawson Lakes, Adelaide, Australia (Feb 2016-till date)
- Post-doctoral Researcher, Centre for Environmental Risk Assessment and Remediation, University of South Australia. Play important role in 5- to 7-member teams in multiple projects on bioremediation of hydrocarbon-contaminated soils funded by BHP Billiton Iron Ore (BHPBIO) and Co-operative Research Centre for Contamination Assessment and Remediation of the Environment (CRC CARE) (Nov 2011- Nov 2015)
- Assistant Laboratory Manager in ABC Environ Solutions Pvt. Ltd. Chennai, India (2007-2008)
- Senior Research Fellow Department of Environmental Sciences, Tamil Nadu Agricultural University, Coimbatore, India (2005 -2006)

Awards, Fellowships and Honors

- CRC CARE grant for attending Clean up conference Sep 2015
- UniSA Travel grant and CRC CARE Profession Development Fund
- University of South Australia Travel grant and CRC CARE Profession Development Fund
- University of South Australia International Postgraduate Scholarship (IPRS) Award for PhD Studies • University of South Australia
- University of South Australia Postgraduate Award (USAPA) for PhD studies Top-up Scholarship Award for PhD studies
- Cooperative Research Centre for Contamination Assessment and Remediation of the Environment (CRC CARE)
- Lectureship or Assistant Professorship UGC-NET (University Grants Commission-National Eligibility Test) • New Delhi, India
- Lectureship or Assistant ASRB Professorship (Agricultural Scientists Recruitment Board), ICAR New Delhi, India
- Junior Research Fellowship for post graduate studies • POABS Envirotech (P) Ltd. • Trivandrum, India
- Best student Award for highest OGPA • Tamil Nadu Agricultural University • India

Publications

Peer reviewed Journal articles : 22

International Conference papers : 21

Project technical reports: 10

<http://people.unisa.edu.au/Kavitha.Ramadass>

<https://scholar.google.com.au/citations?hl=en&btnA=1&authorid=16087736579423342341&user=pJqlCFgAAAAJ>