


**FACULTY INFORMATION**

**PERSONAL INFORMATION**

<b>Name</b>	Dr. A V Raghu	
<b>Designation</b>	Professor	
<b>Official Email ID</b>	<a href="mailto:av.raghu@jainuniversity.ac.in">av.raghu@jainuniversity.ac.in</a>	
<b>Academic Experience</b>		
<b>Industry Experience</b>	NIL	
<b>Core Discipline</b>	Chemistry	
<b>Specialization</b>	Polymer Chemistry	
<b>Research Interest</b>	Synthesis, Characterization & Applications of Organic Polymers, Functional Nanomaterials, Hybrid nanocomposites -PEMFC, Super Capacitor, Sensors, Batteries	

**PROFESSIONAL QUALIFICATION**

Qualification / Discipline (Start with UG degree)	Year of Passing	Institution
Ph.D.	2006	Center of Excellence in Polymer Science, Karnatak University, India
B.Ed.	1999	University of Mysore, India
M.Sc.	1996	University of Mysore, India
B.Sc.	1994	University of Mysore, India

**MEMBERSHIP OF PROFESSIONAL BODIES**

Professional Society	From Year	Nature of Membership
Karnataka Rajya Vijnana Parishat (KRVP)	2014	Lifetime Membership
Society for Polymer Science, Dharwad Chapter, India	2012	Lifetime Membership
The Society of Polymer Science, India	2011	Lifetime Membership

**SUMMARY OF RESEARCH PUBLICATIONS**

**INTERNATIONAL JOURNALS**

Journal Name	Date, Volume & Issue No (From the Latest)	Paper Title
International Journal of Hydrogen Energy	3 <sup>rd</sup> January 2020	Catalyst design for maximizing C <sub>2+</sub> yields during fischer-tropsch synthesis.
Journal of Drug Delivery Science and Technology	101525, 2020	Tailor - made electrically - responsive poly (acrylamide) - graft - pullulan copolymer based transdermal drug delivery systems - synthesis, characterization, in - vitro and ex - vivo evaluation.
Journal of Environmental Management	242, 415 - 429, 2019	Review membranes for dehydration of alcohols via pervaporation.
International Journal of Hydrogen Energy	2019	Recent progress in metal - doped TiO <sub>2</sub> , non - metal doped / codoped TiO <sub>2</sub> and TiO <sub>2</sub> nanostructured hybrids for enhanced photocatalysis.
International Journal of Hydrogen Energy	44 (26), 13022 - 13039, 2019	Recent advances in non - metals - doped TiO <sub>2</sub> nanostructured photocatalysts for visible - light driven hydrogen production, CO <sub>2</sub> reduction and air purification.
International Journal of Hydrogen Energy	2019	Photocatalytic semiconductor thin films for hydrogen production and environmental applications.
Journal of Microbiological Methods	160, 93 - 100, 2019	Pre - treatment techniques of biodegradability enhancement of biologically treated pulp bio sludge.
Journal of Microbiological Methods	159, 200 - 210, 2019	Novel biocompatible poly (acrylamide) - grafted - dextran hydrogels - Synthesis, characterization and its biomedical applications.
Journal of Microbiological Methods	163105650, 2019	A review on various maleic anhydride antimicrobial polymers.
Journal of Microbiological Methods	159, 128 - 137, 2019	Reactive mechanism and their applications of bioactive prebiotics for human health - A review.
Green Materials	7, 3 137 - 142, 2019	Facile synthesis of CoFe <sub>2</sub> O <sub>4</sub> nanoparticles and their application in removal of malachite green dye.

**SUMMARY OF CONFERENCES PARTICIPATED**

**INTERNATIONAL CONFERENCES**

Name of the Conference	Organizer, Place	Year
International Conference on Green Technologies for Sustainable Ecosystems & Trade Show	St. Joseph's College, Bangalore	2016

**NATIONAL CONFERENCES**

Name of the Conference	Organizer, Place	Year
RSRI Conference on Materials and Computational Intelligence	Goa, India	2018
RACMS	Jain (Deemed-to-be University)	2018

<b>AWARDS / HONORS / ACHIEVEMENTS</b>		
<b>Nature</b>	<b>Year</b>	<b>Awarding Institution</b>
Best Academic Researcher of the Year	2020	Asia Education Summit & Awards
Who's Who?	2019	Biography Selected in Marquis Who's Who?
Excellence in Research	2019	Auropath Global Award
Best Researcher Award	2019	DK International Research Foundation Faculty Awards
Outstanding Scientist Award	2019	International Research Awards on Engineering, Science and Management
Life Time Achievement Award	2019	RSRI Society
Faculty Award	2017	ARUNAI International Research Foundation

<b>BOOKS PUBLISHED / MONOGRAMS</b>		
<b>Name</b>	<b>Year</b>	<b>Description</b>
Nanophotocatalysis and Environmental Applications - Detoxification and Disinfection	2020	Chapter 6 - Nanocarbons and polymers supported on TiO <sub>2</sub> nanostructures as efficient photocatalysts for remediation of contaminated wastewater and hydrogen production
Polymer Composites with Functionalized Nanoparticles, Synthesis, Properties, and Applications, Micro and Nano Technologies	2019	Chapter 11 - Organic conjugated polymer based functional nanohybrids - synthesis methods, mechanisms and its applications in electrochemical energy storage supercapacitors and solar cells
Modified Clay and Zeolite Nanocomposite Materials	2019	Recent advances in layered clays - intercalated polymer nanohybrids - synthesis strategies, properties and their applications
Nanophotocatalysis and Environmental Applications	2019	Chapter 3 - Non-metals (oxygen, sulfur, nitrogen, boron and phosphorus) doped semiconducting metal oxides based solar and visible light active green catalysts for photocatalytic applications

<b>PAST POSITIONS HELD BEFORE PRESENT ASSIGNMENT</b>		
<b>Designation</b>	<b>From - To</b>	<b>Institution / Organization</b>
Manager	2008 - 2011	Fuel Cell Division, Reliance Industries Limited, India
Lecturer	2002 - 2007	Centre of Excellence in Polymer Science (CEPS), Karnatak University, Dharwad
Lecturer	1999 - 2002	Sarvajanika Pre-University College, Channapattna

<b>POSITIONS HELD IN THE PRESENT ORGANIZATION</b>		
<b>Designation</b>	<b>From - To</b>	<b>Institution / Organization</b>
Professor	2014 - Till Date	Jain (Deemed-to-be University), Faculty of Engineering and Technology

<b>RESEARCH GUIDANCE</b>		
<b>Total No. of Students Guided</b>	<b>Ph.D.</b>	<b>M.Phil</b>
3	3	0

<b>RESEARCH PROJECTS</b>		
<b>Name of the Project</b>	<b>Type of the Project (Sponsored / Consultancy / Government Funded)</b>	<b>Status of the Project (Ongoing / Completed)</b>
Development, Characterization & Nanographene Based Polymeric Membranes for Use of Pervaporation Separation of Ethanol - Water Mixture & Their Sugar Industrial Applications	VGST, Government of Karnataka	completed
Effect of Electron Beam Irradiation on Polymeric Composite Membranes for Pervaporation Separation Application	Department of Atomic Energy (DAE), BRNS No. 2013 / 34 / 4 / BRNS / Mumbai, Government of India	completed