

PROFILE

Name		Ms (Er). Shilpa Kumari				
Designation		<u>Senior Scientist</u>				
Qualification						
S. No.	Institution	Degree Awarded	Year	Field of Study		
I)	Academy of Scientific & Innovative Research, Ghaziabad, Uttar Pradesh	PhD (Thesis Submitted)	2018- 2024 (Tentative)	Engineering Sciences		
II)	Academy of Scientific & Innovative Research, Ghaziabad, Uttar Pradesh-	M. Tech 8.75 CGPA	2011-2013	Environmental Systems Engineering & Modeling		
III)	Birsa Institute of Technology , Sindri, Government of Jharkhand	B. Tech 8.50 CGPA	2007-2011	Chemical Engineering		
Experience (in years)		Joining Date : 24/04/2017 (7 Years)				
Expertise (for e.g.: Water, Waste, Energy, Business Development etc.)		Solar Energy , Green hydrogen Production , Flyash utilisation , Green Crackers , Technoeconomics , Menstrual Waste Management				
Publications (in Nos.)		1. https://doi.org/10.1016/j.esd.2023.02.007 2. https://doi.org/10.1016/j.jclepro.2022.130463 3. https://doi.org/10.1007/s41742-023-00546-6 4. https://doi.org/10.1016/j.jhazmat.2021.127345				
Patents		Sr. No.	Title	Names of other inventors	Country	Filed on (Date)
		1	Fire Cracker: Safe Water And Air Releaser (SWAS)	S. Rayalu, Rakesh Kumar, G.K. Hippargi, Shilpa Kumari, M. Pratap Reddy, Anil Bhanarkar	India	Filed(2019)
		2	Safe Aluminium Less Cracker (SAFAL)	S. S. Rayalu, Rakesh	India	Filed(2019)

			Kumar, Shilpa Kumari, G.K. Hippargi, P. Nagababu, S.A. Praveen, Anirban Middey		
	3	A process for rapid hydrothermal carbonization of wastes with minimal emission	Dr. Sadhana Rayalu, Ms. Shilpa Kumari, Ms. Kiran Manohar, Ms. Arshiya Tarannum	India	Granted(2023)
	4	Functional PV powered facilitated water electrolyzer system for solar hydrogen generation and processes thereof	Rayalu Sadhana Suresh, Kumari Shilpa, sehba anjum mumtaz ahmed wahane meenal gabhane kushagra singh neha shirpurkar sayali vaidya aparna	US	Filed (2021)
Honors & Awards (If any)	<p>i. The Most Prestigious “CSIR- Technology Award 2021” (Inventors) in Physical Sciences including Engineering for the Development of green Crackers having reduced chemical usage and environmental footprint.</p> <p>ii. Got best Paper presentation Award entitled” Kinetics and reactor modeling of catalytic reactor for hydrogen purification” in Chemical engineering congress (CHEMCON 2013) held at ICT, Mumbai organized by institute of chemical engineers.</p> <p>iii. Reviewer for “Environmental Progress & Sustainable Energy” an journal of “American Institute of Chemical Engineers”</p>				

	<ul style="list-style-type: none"> iv. Editorial Board Member of “International Journal of Energy and Environmental Science” v. Featured in Institute’s Patrika “ <i>Paryawarniya Saksharta</i> “ as the corresponding author for the composition on Environmental Awareness Theme vi. Felicitation by Nagar Rajbhasha Karyanwayan Samiti (NARAKAS) , Department of Official Language, Ministry of Home affairs , Govt. of India for citing the poem. vii. Felicitation as Special Delegate Speaker at Vincent Pallotti College of engineering for the INVENTOMENIA 2019 event on the occasion of Engineer’s Day. viii. Invited talk at Defence Institute of advanced technology (DIAT-PUNE) for the “National Conference on Chalcogenide Compounds”(16-17th March 2023) ix. Invited panellist for the event “ Women in Science & Entrepreneurship “ organized by Indian Women Scientists Association (2nd April 2023) x. Felicitation as Special Guest Speaker at Regional Ayurveda Research Institute , Ministry of Aayush on the occasion of Women’s Day 2019 xi. Trained professional on ISO/IEC 17025:2005 -Laboratory Management System and Internal Audit , 2018 xii. Trained professional on Internal Quality Auditor For ISO 9001: 2015 Quality Management System xiii. Lifetime member of “Organization for Women in Science for the Developing World” (OWSD) xiv. Member of The Indian Society for Technical Education (ISTE) xv. Member of Material’s Research Society of India (MRSI)
Research Scholars (in Nos.)	<u>Trainees (M.Tech, B.Tech & MSc)</u> <u>Total : 12</u>