

PROFILE



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| Name | Dr. Penumaka Nagababu |
| Designation | Principal Scientist |
| Qualification | MSc, PhD |
| Experience (in years) | 14 years (Post PhD) |
| Expertise (for e.g.: Water, Waste, Energy, Business Development etc.) | 14 years |
| Publications (in Nos.) | 58-Publication https://orcid.org/0000-0002-4489-2288 (or) https://scholar.google.com/citations?user=HmVMQYUAAAAJ&hl=en |
| Patents | 03 1. CHAN; Sunney Ignatius; (South Pasadena, CA); YU; Sheng-Fa; (TW) NAGABABU; Penumaka (TW) ; MAJI; Suman; (IN) ; CHEN; Ping-Yu; (TW) ; RAMU; Ravirala; (TW) MOU; Chung-Yuan; (TW) ; LIU; Chih-Cheng; (TW). Molecular Catalysts Capable of Catalyzing Oxidation of Hydrocarbons and Method for Oxidizing Hydrocarbons, United State Patent No.:US2015/0099876A1US, (Published 08/04/2015, Filing Date 02.10.2014). 2. Inventors: Sadhana Rayalu, Rakesh Kumar, G. Hippargi, Penumaka Nagababu, L. satish, G. Sangita STAR: Safe thermite cracker NFNO: 0008NF2019/IN, Country: India, Lab: NEERI, Application no: 201911012433, Status: IF/2025, Grand date 16- Aug- 2023, patent number: 445269. 3. Sadhana Rayalu, Rakesh Kumar, S. Kumari, G. Hippargi, Penumaka Nagababu, S.A Praveen M. Anirban, Aluminium Less Cracker (Patent: Application no: 0009NF2019) India date of filed; 9/01/2019. |
| Honors & Awards (If any) | Awards and Fellowships: |

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| | <ul style="list-style-type: none"> ➤ CSIR-NEERI Best Scientist Award-2022 Presented on CSIR-NEERI Foundation Day on April 08 2022. ➤ CSIR- Technology Awards–(CTA-2021) for the development of firecrackers having reduced chemical and environmental footprint. ➤ Outstanding Scientist Award in Chemistry from Venus International Research Foundation- Chennai which was held on November 11 2017 ➤ Selected for CSIR-Pool Scientist Scheme (SRA) and joined at CSIR-IICT Hyderabad from March 19, 2014 to January 04, 2017 ➤ Postdoctoral fellowship September 01 2010 to March 18 2014 Institute of Chemistry, Academia Sinica, Taiwan. (NSC), Advisor Prof. Sunney I. Chan Distinguished Research Fellow, is particularly well-known for his seminal contribution to the understanding of the structures and functions of several important membrane proteins such as cytochrome c oxidase, for which he was nominated for a Nobel Prize. Taiwan ➤ Research Assistant -(National Science Council-from Taiwan (NSC), April 06 2010 to August 31 2010, Advisor Prof. Sunney I. Chan Institute of Chemistry, Academia Sinica, Taiwan. (APIs score = 7) ➤ JRF and SRF-Department of Science and Technology-India (project title ➤ DNA-binding and photocleavage activity of cobalt(II) and Ru(II) complexes ➤ President Award in the Bharat Scouts and Guides in National WOSM Organization in 1988 ➤ State-level 1st prize in singing light vocal music competition |
| <p>Research Scholars (in Nos.)</p> | <p>Total: 5 One is awarded, one submitted and 3 are doing</p> <ol style="list-style-type: none"> 1) Ms. Payel Singh (10CC19J27001) Sulphur amended nano zerovalent iron for groundwater remediation of inorganic aqueous contaminants, Awarded PhD 20th Feb.2024 in CHEMICAL SCIENCE 2) Ankush Kularkar (10CC20J27016), Development of Functional Metal-Organic Frameworks (FMOFs) for Photoreduction of CO₂ via Photo-splitting of H₂O₂ Submitted PhD thesis on 14th September 2023 in CHEMICAL SCIENCE 3) Sehba Anjum Mumtaz Ahmed (20EE20J27004) Development of metal-ligand based catalytic materials for its energy-related applications Doing (as a Guide) DAC-III completed 4) Uktika Panbude (10PC22A27001) Photocatalytic degradation of the emerging pharmaceutical pollutants and its biological activity August 2022 Doing (as main Guide) DAC-I completed 5) Vaishnavi Palwe (10CC23A27004) Development of Metal-Organic Frameworks@GOcomposites for photocatalytic degradation of b-lactam antibiotics Doing (as main Guide) |