

RESUME

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Chief Scientist (Retd),
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Date of Birth 05-1-1950
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Qualifications

- M. Sc. (Chemistry), 1971 (Kanpur University), India
- Ph. D. (Inorganic Chemistry), 1978 (University of Kerala)
- DAAD Post-Doctoral Fellow, Max Planck Institute, Stuttgart, Germany (1985)
- Fellow Indian Institute of Ceramics (1995)
- Visiting Scientist, Argonne National Laboratory, USA (1998)

Experience

- Scientist B (Sep, 1978) RRL (CSIR), Trivandrum
- Scientist C (Dec, 1982) RRL (CSIR), Trivandrum (Direct Selection)
- Scientist E1 (Apr, 1988) RRL(CSIR), Trivandrum (Assessment)
- Scientist E2 (Apr, 1991) RRL(CSIR), Trivandrum (Merit Selection)
- Scientist F (Apr, 1997) RRL(CSIR), Trivandrum (Assessment)
- Scientist G (Apr, 2003) NIIST (CSIR)(Assessment)
- Scientist G (Feb. 2010- 2012) (Assessment)
- CSIR Emeritus Scientist (2012- 2015)
- UGC Visiting Professor, Kannur University, Kerala (2018-20)
- Ceramic Consultant (2015 – till date)
- INAE-AICTE Distinguished Visiting Professor, Anna University, 2021 onwards

Awards & Fellowships

- (1985) CSIR-DAAD Fellow at Max Planck Institute, Stuttgart, Germany
- (1998) Visiting Scholar at Argonne National Laboratory, Argonne, Illinois, USA
- (1995) Included in Marqui's who is who, 15th Edition
- (1995) Fellow, Indian Institute of Ceramics (Indian Ceramic Society)
- (2012) Life time Science Achievement Award (Indian Society for Analytical Sciences)
- (2012) CSIR- Emeritus fellowship
- (2013) Life time Achievement in materials and Ceramics (Kishan Modi Award, Indian Ceramic Society)
- (2017) Life time Achievement Award in Materials Science & Technology (DN Aggrawal Memorial Award, Indian Ceramic Society)
- (2019) Special felicitation Award, Indian Ceramic Society Annual Session, Trivandrum

Current Positions holding

- 2016-current :** Member, Project Assessment Committee, Department of Science & Technology (DST), Govt of India (Energy Materials)
- 2017-Current :** Member, PRSG, MEITY, Govt. of India
- 2018- Current :** Member, Technology Advisory Group (TAG), ARCI, Govt. of India
- 2019- Current :** Chairman, Award Committee, Indian Ceramic Society, Kolkata.

Summary of Achievements

Scientific achievements

Number of publications	:	250
PhDs completed	:	20
Total projects carried out as Project Leader	:	32
Grant in aid	:	08
Sponsored	:	05
Consultancy	:	11
International Collaboration	:	06

Major areas of active research in the past

- Sol-Gel Alumina and Alumina-Nano Composites.
- Sol-Gel High Surface Area Metal Oxides/Mixed Oxide Catalysts.
- Sol-Gel Nano Titania Functional (Photocatalytic, Self-Cleaning) Films
- Ultra and Nano Ceramic Membranes
- Sub-Critically Dried Aerogels, Hydrophobic, hydrophilic functionalisation
- Rare Earth Phosphate (Monazite) Ceramics and composites.
- Organic dye intercalated smectite eco friendly Nano Pigments
- Anti algal, anti bacterial and anti algal surface coatings on terracotta and glazed tile surfaces
- Anti fouling coatings on solar cell glass panels.
- Synthesis of Materials for batteries and supercapacitors.