EXECUTIVE CURRICULUM VITAE

# Kuruvilla Joseph

Prof. | PhD, FRSC, FASI



**Distinguished Professor & Pro-Vice Chancellor**

Indian Institute of Space Science and Technology (IIST)
Department of Space, Government of India

| 250+ | 10 | 22 | 70 |
|---|---|---|---|
| Journal papers | Edited books | Doctoral graduates | h-index |

19,874 citations | 3 granted patents | Research indicators: October 2026

## ACADEMIC PROFILE

An internationally recognised materials scientist and institution builder, Prof. Kuruvilla Joseph combines research in polymer science and nanomaterials with senior academic leadership. Associated with IIST from its founding year, 2007, he played a pivotal role in its academic and research foundations, the transition to its permanent campus, and the development of institutional systems and student support. His scientific work spans advanced composites, sustainable materials and functional nanomaterials.

## CURRENT APPOINTMENTS

- **Distinguished Professor, IIST** - September 2025 to present. First IIST faculty member elevated to this rank through Department of Space promotion; pay level 16.
- **First Pro-Vice Chancellor, IIST** - July 2025 to present.

## INSTITUTION BUILDING AND ACADEMIC LEADERSHIP

- Former Registrar; former Dean (Academics), following earlier service as Dean (Student Activities). Founding Head of Chemistry, IIST.
- Contributions span campus and laboratory development, institutional governance, student welfare and outreach. Co-Chair, ISRO-IIST Research Enhancement Committee; led IQAC accreditation coordination and the appeal contributing to NAAC A++.
- Earlier academic career at St. Xavier's College, Thumba (1993-1994), and St. Berchmans' College, Changanassery (1994-2007).

## RESEARCH SPECIALISMS

Polymer blends and composites; nanomaterials and nanocomposites; green materials and bio-composites; polymers from natural resources; ageing and degradation; biosensors; electromagnetic interference shielding and materials for space applications.

## SELECTED RECOGNITION AND FELLOWSHIPS

- Stanford University / Elsevier World's Top 2% Scientists: six consecutive years in both career-long and single-year citation-impact datasets.
- Fellow, Royal Society of Chemistry, London (FRSC, 2020); Fellow, Astronautical Society of India (FASI, 2022); Honorary Fellow, Indian Society of Analytical Scientists (2023).
- Invited as an eminent citizen to the President of India's At Home reception at Rashtrapati Bhavan, 15 August 2025.

## RESEARCH TRAINING AND INTERNATIONAL EXPERIENCE

**PhD:** Mahatma Gandhi University, Kottayam; doctoral research at NIIST-CSIR (formerly the Regional Research Laboratory), Thiruvananthapuram.
**Postdoctoral research:** Federal University of Paraiba, Brazil, and Swedish Institute of Composites (SICOMP), Sweden.

Visiting appointments at Martin Luther University Halle-Wittenberg, Germany; Embrapa, Sao Carlos, Brazil; and University College of Boras, Sweden. Research fellowships include DST-DAAD, CNPq, INSA and CSIR.

## SELECTED ADVISORY AND INSTITUTIONAL SERVICE

- **Advisor, Indian Institute of Technology Kharagpur; Advisor, Christ University, Bengaluru.**
- Governing Body member, Assumption College (Autonomous), Changanassery; Governing Body member, Mar Athanasius College (Autonomous), Kothamangalam.
- Former Syndicate, Senate and Academic Council member, Mahatma Gandhi University. Further academic and research advisory service across higher education institutions.

## SCHOLARSHIP AND MENTORSHIP

More than 250 journal papers, ten edited books, extensive contributed book chapters and three granted patents. Supervised 22 doctoral graduates, with more than 500 national and international addresses and engagements. Sponsored and collaborative projects connect space materials, functional nanocomposites and sustainable resources.

## SELECTED EDITED BOOKS

Green Nanomaterials for Energy and Environment
Woodhead Publishing / Elsevier | 2026

PEEK Blends and Composites
Elsevier | 2025

Zero-Dimensional Carbon Nanomaterials
Woodhead Publishing / Elsevier | 2023

## OFFICE AND ACADEMIC PROFILES

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