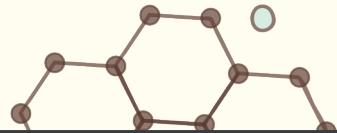
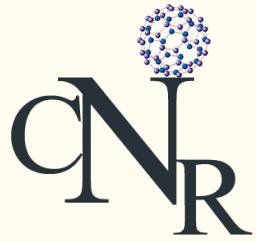
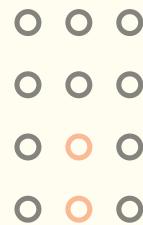




VIT<sup>®</sup>

Vellore Institute of Technology  
(Deemed to be University under section 3 of UGC Act, 1956)



Meet the Nobel Laureate

**Dr. Moungi G. Bawendi**

Massachusetts Institute of Technology,  
USA

Nobel Laureate in Chemistry  
(2023)

For the discovery and synthesis of  
quantum dots



# ICNAN'25

3<sup>rd</sup> International Conference on

## Nanoscience and Nanotechnology

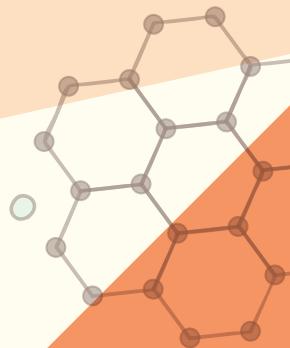
16<sup>th</sup> to 19<sup>th</sup> December 2025

<https://icnan.vit.ac.in>

Organised by

**Centre for Nanotechnology  
Research**

VIT, Vellore, TN, India



# About VIT

## Discover Vellore Institute of Technology (VIT)

The Vellore Institute of Technology (VIT), India, stands as a testament to academic excellence and visionary leadership. VIT was founded in 1984 as Vellore Engineering College by the chancellor Dr. G. Viswanathan. The institution has grown exponentially to that of having more than 40,000 students. VIT now has 1200+ international students from across 50+ countries with different nationalities represented within VIT's student body, which includes students from every state in India. There are currently five campuses of VIT, located in Vellore, Chennai, Amaravati (AP), Bangalore and Bhopal (MP). VIT adopts eco-friendly and green initiatives to promote sustainable practices in its lush and verdant campus.

Established with a commitment to providing quality education, VIT has steadily risen to prominence on both the national and international stages. Its dedication to pioneering education in engineering and technology has been consistently recognized, culminating in its ranking of 142nd globally and 9th in India in the QS World University Rankings by Subject 2025. This prestigious recognition further highlights the strength of four key disciplines—Computer Science & IT, Data Science & AI, Electrical & Electronics Engineering (EEE), and Material Science—all of which were ranked among the top 200 worldwide in the same assessment.

VIT's consistent high performance is also reflected in the National Institutional Ranking Framework (NIRF) by the Government of India. In 2024, VIT was recognized as the 10th best University, 13th best research institution, and 11th best engineering institution in the country. Further solidifying its global standing, the Shanghai ARWU ranking 2024 placed VIT 2nd in India and within the 501-600 band globally. Moreover, VIT's commitment to sustainable practices has been acknowledged with a rank of 396th in the world and 8th in India in the QS World University Rankings: Sustainability 2025. The institution also holds the highest NAAC Accreditation with an A++ grade, scoring 3.66 out of 4, attesting to its rigorous quality standards.

VIT offers a comprehensive array of academic programmes including 71 Undergraduate, 58 Postgraduate, 15 Integrated, and 2 M.Tech. Industrial Programmes with robust research opportunities through full-time Ph.D. programmes in Engineering and Management, Ph.D. in Science and Languages, and Direct Ph.D. programmes in engineering disciplines.

VIT's global outlook is evidenced by its strong international presence and partnerships with over 500 foreign universities. This extensive network provides invaluable platforms for students and faculty to engage with international experts, fostering collaboration on cutting-edge technologies.

For further details, please visit <https://vit.ac.in/>

# About CNR

## Centre for Nanotechnology Research, VIT Vellore

### Pioneering the Future of Printed and Flexible Nanotechnology for a Sustainable Future

Established in **June 2008**, the Centre for Nanotechnology Research (CNR) at Vellore Institute of Technology has rapidly emerged as a leading hub for cutting-edge research in nanotechnology. CNR's research philosophy is rooted in a commitment to both fundamental and applied science. Operating at the confluence of materials science, electronics, and biomedicine, the centre's vision, "**To lead as a Centre of Excellence - Integrate, and deliver interdisciplinary research and provide solutions in Printed and Flexible devices for energy, sensors and healthcare,**" reflects its dedication to translating scientific discoveries into tangible societal benefits. This is achieved through a robust research culture that emphasizes collaboration, innovation, and gender equality, ensuring a diverse and inclusive environment for scientific advancement.

<https://vit.ac.in/centers/cnr>

### Key Scientific Strengths of CNR

- Focused Research Domain:** CNR specializes in printed and flexible electronics, a rapidly evolving field with applications in renewable energy harvesting, advanced sensor technologies, and personalized healthcare solutions.
- Interdisciplinary Expertise:** The centre's unique operating model integrates expertise from various scientific disciplines, enabling the development of complex, multi-functional nanodevices.
- State-of-the-Art Infrastructure:** CNR is well equipped with advanced instrumentation for nanomaterial synthesis, characterization (including microscopy, spectroscopy, and electrical measurements), and computational simulations, facilitating rigorous scientific inquiry.
- National and International Collaborations:** CNR maintains strong partnerships with leading nanotechnology experts worldwide, fostering knowledge exchange and collaborative research projects.
- Emphasis on Societal Impact:** The centre's research is aligned with national priorities, focusing on areas such as sustainable energy, environmental monitoring, and advanced medical diagnostics.
- Consultancy and Technical Support:** CNR provides expert consultancy services in nanomaterials characterization, extending its expertise to academic institutions and industries.

CNR's research endeavours are driven by the understanding that nanotechnology, when strategically applied, can revolutionize numerous sectors. By fostering a collaborative and innovative research environment, CNR is contributing to the advancement of nanotechnology and its translation into real-world applications that benefit society. (<https://crf.vit.ac.in>)

# About ICNAN'25

## Step into the Nano-Revolution at ICNAN 2025!

ICNAN 2025 is your portal to the world where the tiniest manipulations lead to the grandest innovations, bringing together a vibrant tapestry of Indian and international minds – students, scientists, engineers, and industry titans – to ignite the next wave of nanoscale breakthroughs.

Dive into a dynamic exchange of ideas, where cutting-edge research meets real-world applications. From fundamentals to advanced sustainable solutions, this conference is a global hub for interdisciplinary collaboration. Witness the explosive growth of nanotechnology across every sector, shaping the future of energy, medicine, environmental science, and electronics.

## Why ICNAN 2025?

- **Global Convergence:** Connect with leading experts and researchers from around the world, forging collaborations that transcend borders.
- **Real-World Impact:** Explore practical applications of nanoscience and nanotechnology that address critical national needs.
- **Inspiration & Innovation:** Be inspired by plenary lectures, invited talks, and captivating oral and poster presentations showcasing groundbreaking research.
- **Networking & Collaboration:** Forge invaluable connections, expand your professional network, and meet the masterminds shaping the future of nanotechnology.
- **A launchpad for Progress:** contribute to the discussion on current trends and future directions of Nanoscience and Nanotechnology.

**ICNAN 2025** isn't just a conference; it's a catalyst for innovation, a meeting of minds, and a glimpse into the future powered by the nanoscale.

Join us and be part of the revolution!

## Call for Papers

The participants are requested to submit the extended abstracts including manuscript title, author(s), affiliation(s) and contact details, with a clear indication of research work, methodology, major results and conclusion.

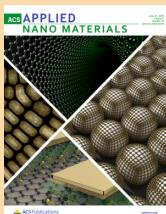
The committee will evaluate **the full paper** and will decide whether the paper will be presented as **oral or poster**. The mode of presentation will be updated in the **first week of December 2025** on the website.

## Publications & Proceedings

**ICNAN'25** encourages original and unpublished work. extended abstracts will be published in digital proceedings with online ISBN number. Based on the scope and quality of the work, the accepted full papers will be **assigned to Scopus**

**Indexed Journals.** The timely submitted full papers to ICNAN'25 will be evaluated by the committee for its **originality and subjected to the regular peer-review process by the assigned journals.**

## Publish in...



and many more...

## Themes

- ⊕ Advanced Nanomaterials and Characterization
- ⊕ Thin Film Deposition Techniques
- ⊕ Molecular Nanoscience, Catalysis, and Applications
- ⊕ Semiconducting Materials and Devices
- ⊕ Electronic Inks for Flexible and Printed Electronics
- ⊕ Nanomaterials and Devices for:
  - \* Energy Harvesting (Solar Cells, Nano-generators & and self-powered device-triboelectric, piezoelectric and thermoelectric)
  - \* Energy Storage (Supercapacitors, Batteries)
  - \* Energy Conversion (Fuel Cells)
  - \* Environmental Applications (Water Purification, Adsorbents, CO<sub>2</sub> Remediation)
  - \* Sensor Technologies (Food, Agriculture, Healthcare)
  - \* Applications
  - \* Automotive Applications
  - \* Hydrogen Energy Solutions
- ⊕ Nano-enabled Biomedical Systems and Devices
- ⊕ Nanophotonics and Plasmonics
- ⊕ Magnetic Nanomaterials and Their Applications
- ⊕ Nanocoatings and Surface Modifications
- ⊕ Flexible Electronic Devices
- ⊕ Additive Manufacturing for Energy and Electronic Devices
- ⊕ Nanoelectronics: Modelling, Simulation and Fabrication
- ⊕ Artificial Intelligence and Machine Learning Techniques in Nanotechnology
- ⊕ Density Functional Theory and Molecular Dynamics in Nanotechnology
- ⊕ Quantum Computing Applications in Nanotechnology

# ICNAN'25 Speakers

Dr. Moungi Bawendi



Massachusetts Institute of Technology, USA

Noble Laureate in Chemistry

discovery and synthesis of quantum dots

(2023)

Dr. Adam Lee



Griffith University, Australia

Dr. Ajay Thakur



IIT Patna, India

Dr. Ajayan Vinu



University of Newcastle, Australia

Dr. Alberto Vomiero



Luleå University of Technology, Sweden

Dr. S. Anandan



NIT Trichy, India

Dr. Aravind Vijayaraghavan



University of Manchester, UK

Dr.G.Arthanareeswaran



NIT Trichy, India

Dr. Ashish Arora



IISER, Pune, India

Dr. S. Balakumar



University of Madras, India

Dr. Chamil Abeykoon



University of Manchester, UK

Dr. Cheong Kuan Yew



Universiti Sains Malaysia,

Dr. David Jenkins



University of Plymouth, UK

Dr. Deepa Khushalini



TIFR, India

Dr. V. Ganapathy



ARCI, Hyderabad, India

Dr. Garima Agarwal



IIT Mandi, India

Dr. Jayan Thomas



University of Central Florida, USA

Dr. James Chapman



Griffith University, Australia

Dr. John V Kennedy



GNS Science, New Zealand

Dr. Johnson Goh Kuan Eng



Griffith University, Australia

Dr. Cornelius Nielsch



Technische Universität Dresden, Germany

Dr. K. Kothandaraman



IIT Madras, India

Dr. Lorenzo Pavesi



University of Trento, Italy

Dr. Manish Chhowalla



University of Cambridge, UK

Dr. Manoj Gupta



NUS, Singapore

Dr. Manuel Stephan



CSIR-CECRI, Karaikudi, India

Dr. Marc-Olivier Coppen



University College London, UK

Dr. Michael Naguib



Tulane University, USA

Dr. Muthu Senthil Pandian



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JNCASR, Bangalore, India

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Dr. Raman Singh



Monash University, Australia

Dr. Ronald Kádár



Chalmers Technical University, Sweden

Dr. Saikat Talapatra



South Illinois University, Carbondale

Dr. Santanu Das



IIT BHU, India

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DRO-DMRL, Hyderabad, India

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IISc, Bangalore, India

Dr. M. Sathish



CSIR-CECRI, Karaikudi, India

Dr. Seiichi Takamatsu



Binghamton University, New York

Dr. Sudhagar Pitchaimuthu



Heriot Watt University, UK

Dr. Tiju Thomas



IIT Madras, India

Dr. Unyong Jeong



Pohang University of Science and Technology, South Korea

Dr. Venkata Krishnan



IIT Mandi, India

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Hasselt University, Belgium

Dr. Yogendra Kumar Mishra



University of Southern Denmark, Denmark

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## **Credentials of VIT**

**691<sup>st</sup> in the world (QS World University Rankings 2026)**

**Engineering and Technology: 142<sup>nd</sup> in the World and 9<sup>th</sup> in India (QS World University Rankings by Subject 2025)**

**Four subjects (CS & IT, data science & AI, EEE and Material Science) were ranked among the top 200 in the world (QS World University Rankings by Subject 2025)**

**10<sup>th</sup> best University, 13<sup>th</sup> best research institution and 11<sup>th</sup> best engineering institution in India (NIRF Ranking, Govt. of India 2024)**

**2<sup>nd</sup> in India and 501- 600 in the world (Shanghai ARWU ranking 2024)**

**NAAC Accreditation with A++ grade (3.66 out of 4)**

**396<sup>th</sup> in the world and 8<sup>th</sup> in India (QS World University Rankings : Sustainability 2025)**

# Important Dates

Extended Abstract Submission - 2 Pages, 1000 Words	- 01.10.2025
Acceptance	- 15.10.2025
Early Bird Registration	- 01.10.2025
Last Date for Registration	- 15.11.2025
Last Date for Full Paper Submission	- 20.11.2025
Conference Dates	- Dec 16-19, 2025

## Registration

Online Registration / Abstract Submission visit



<https://icnan.vit.ac.in>

	Registration Fee	Early Bird	Standard
Faculty / Research Scientist	₹ 10,000	₹ 12,000	
Students / Scholars	₹ 7,000	₹ 10,000	
Industry	₹ 12,000	₹ 15,000	
Foreign Participants	\$ 300	\$ 450	
Group ( Students/Scholars) 5 people	₹ 30,000	₹ 40,000	
Group (Faculty/Scientists) 5 people	₹ 40,000	₹ 50,000	

*Register early to avail discounted rates*

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	<a href="https://vit.ac.in/centres/cnr">https://vit.ac.in/centres/cnr</a> <a href="https://icnan.vit.ac.in">https://icnan.vit.ac.in</a>
	Room No. 102, Technology Tower, Vellore Institute of Technology, Vellore - 632014

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