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

40 YEARS OF TRANSFORMING LIVES

CNR

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

3rd International Conference on

Nanoscience and Nanotechnology

16th to 19th 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 the 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

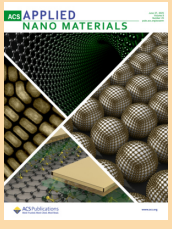
The participants are requested to submit the extended abstracts including manuscript title, author(s), affiliation(s) and contact details, with a clear indication of research work, methodology, major results and conclusion.

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_2 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

IMRE, A*STAR, Singapore

Dr. Karen Wilson

Griffith University, Australia

Dr. Kornelius Nielsch

Technische Universität Dresdan, 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

SSN, India

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University of Limerick, Ireland

K. S. Narayan

JNCASR, Bangalore, India

Dr. N. Ponpandian

Bharathiyar University, India

Dr. Pranab Goswami

IIT Guwahati, India

Dr. Pratap Kollu

University of Hyderabad, India

Dr. Pau Loke Show

Khalifa University, UAE

Dr. Raghumani Singh Ningthoujam

BARC, Mumbai, India

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

Dr. P. Saravanan

DRO-DMRL, Hyderabad, India

Dr. D. D. Sarma

IISc, Bangalore, India

Dr. M. Sathish

CSIR-CECRI, Karaikudi, India

Dr. Seiichi Takamatsu

Binghamton University, New York

Dr. Sudhagar Pitchaimuthu

Heriott 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

Dr. Wim Deferme

Hasselt University, Belgium

Dr. Yogendra Kumar Mishra

University of Southern Denmark, Denmark

Presentation & Researcher Awards

ACS Publications Most Trusted. Most Cited. Most Read. | ACS Energy Letters | ACS Applied Nano Materials | ACS Applied Energy Materials | ACS Materials Au | ACS Nanoscience Au | ACS Omega

American Chemical Society 6 Presentation awards - **ACS Energy Letters, ACS Applied Nano Materials, ACS Applied Energy Materials, ACS Materials Au, ACS Nanoscience Au, ACS Omega** Journal certificates and cash prize of INR 3000 each

Royal Society of Chemistry | Nanoscale | Nanoscale Advances

The Royal Society of Chemistry **Nanoscale and Nanoscale Advances** Journal certificates and gift vouchers for poster and presentation

Best presentation awards with certificates from

Wiley | IOP Publishing | iScience A Cell Press journal

ICNAN YOUNG RESEARCHER AWARD & ICNAN WOMEN RESEARCHER AWARD

Two best oral presentations will be awarded a certificate and cash prize of INR 5000 each

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Credentials of VIT

691st in the world (QS World University Rankings 2026)

Engineering and Technology: 142nd in the World and 9th 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)

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

2nd in India and 501- 600 in the world (Shanghai ARWU ranking 2024)

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

396th in the world and 8th in India (QS World University Rankings : Sustainability 2025)

Important Dates

Extended Abstract Submission - 2 Pages, 1000 Words	- 30.10.2025
Acceptance	- 15.10.2025
Early Bird Registration	- 30.10.2025
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

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