



International Conference on Advances in Functional Materials (ICAFM 2025)

13-14 February 2025, Hybrid mode

Department of Chemistry, St. Joseph's College (Autonomous)
Tiruchirappalli, India



About the Conference

The International Conference on Advances in Functional Materials highlights the ground-breaking potential of materials designed to perform specific functions in response to external stimuli. These multipurpose materials, comprising metals, metal complexes, organic molecules, metal nanoparticles, metal nanorods, ceramics, polymers, and sensors, are vital for advanced applications like solar energy harvesting, energy storage, catalysis, sensors, biomedical devices, and supercapacitors. Additionally, functional materials have diverse qualities such as high adsorption capacity, surface functionalization, and visible light sensitivity. These open up new applications in energy storage, computing devices, flexible electronics, wearables, bio-mimics, and theranostics. Functional materials with creative designs are more susceptible and flexible than traditional rigid materials. This conference offers a forum for exploring innovations, fostering teamwork, and addressing global problems in energy, sustainability, sensor, and materials design.

Profile of the College

St. Joseph's College (SJC) was founded by the Jesuit visionaries in 1844 with the noble aim of educating humanity for the Good and the True (Pro Bono Et Vero). SJC now serves as a beacon of light for all men and women aspiring to pursue holistic higher education. St. Joseph's College is a private, aided Christian minority institution affiliated to Bharathidasan University, Tiruchirappalli, Tamil Nadu. It is one of the first colleges to be granted autonomy by the UGC in 1978.

SJC

- was recognized by the UGC as a College with Potential for Excellence in 2004 and again in 2014.
- received DST-FIST fund in 2008 and 2014 and DBT-STAR status in 2014.
- received the coveted honor of the Special Heritage Status from the UGC in 2015.
- secured 25th position in NIRF Ranking in 2024.
- secured the Five Star Status (2000), A+ Grade (2006), A Grade (2012) and A++ (2019) in NAAC accreditation process.

The college caters to the educational needs of all sections with a marked emphasis on the preferential option for the poor, the marginalized, the first-generation learners and the other deprived sections of the society.

About the Department

The Department of Chemistry was founded in 1906 by Rev. Fr. Augustin Hass SJ, initiating the Undergraduate course in Chemistry. As early as 1960 the M. Sc Chemistry was started. The Ph.D. Program in Chemistry was introduced in 1965. There are 22 faculty members assisted by 8 Non-teaching staff. There are about 400 students learning Chemistry in UG and PG programmes. The Department of Chemistry is also known for its significant research contributions. It is a DST-FIST- and DBT-funded department. The department is well equipped with a DST-FIST-Instrumentation Lab. The students of chemistry have ready access to the FIST- department library shelved with 550 recent books in various fields of chemistry. The Department has published more than 800 research papers in many Journals of National and International repute. For the past 10 years, the Department has been conducting CSIR-NET/SET/GATE and IIT Coaching classes. It has helped many scholars qualify competitive examinations

Focus areas

- | | |
|---|---------------------------------|
| • Fluorescent/electrochemical/ion sensors | • Nanomaterials |
| • Computational works on functional materials | • Molecular electronics |
| • Functional materials in catalysis | • Optical materials |
| • Metal-organic frameworks | • Smart materials |
| • Porous organic polymers | • Bio-materials in theranostics |
| • Materials in energy storage and conversion | • Bio-mimics |
| • Materials for environmental sustainability | • Magnetic materials |
| • Organometallics for functional materials | • Carbon-based materials |
| • Greener approaches in functional materials | |

Registration

Registration Type	Fee ₹	
• UG and PG Students	500	} in person
• Research Scholars	750	
• Faculty Members	1000	
• Industry Members	1500	
• online mode	500	



Scan to Register

Publications

Submit your abstract for poster or paper presentations to icafm2025@gmail.com. After peer review, accepted papers will be published in Scopus or Web of Science-indexed journals. Processing charges applicable.

Keynote Speakers



Professor Thorfinnur Gunnlaugsson
School of Chemistry
Trinity Biomedical Sciences Institute
Trinity College Dublin
Ireland



Dr. S. Sampath
Professor
Department of Inorganic and
Physical Chemistry
IISc, Bengaluru



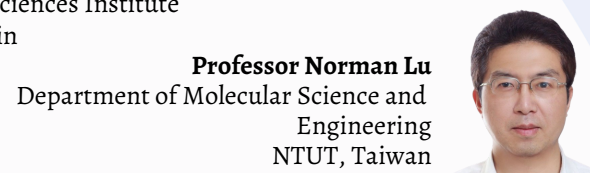
Dr. R. Karvembu
Professor
Department of Chemistry
NIT, Tiruchirappalli



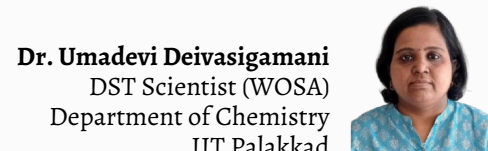
Dr. Venkatakrishnan, P
Professor
Department of Chemistry
IIT Madras



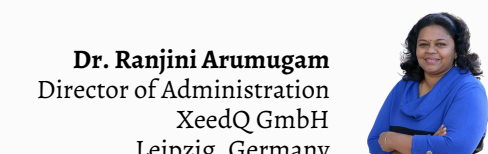
Dr. Shanmugaraju Sankarasekaran
Associate Professor
Department of Chemistry
IIT Palakkad



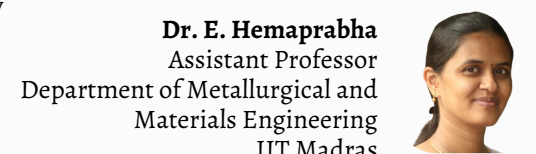
Professor Norman Lu
Department of Molecular Science and
Engineering
NTUT, Taiwan



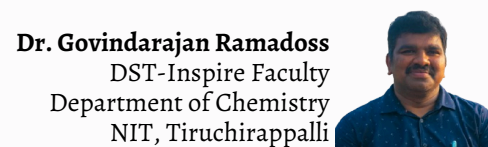
Dr. Umadevi Deivasigamani
DST Scientist (WOSA)
Department of Chemistry
IIT Palakkad



Dr. Ranjini Arumugam
Director of Administration
XeedQ GmbH
Leipzig, Germany



Dr. E. Hemaprabha
Assistant Professor
Department of Metallurgical and
Materials Engineering
IIT Madras



Dr. Govindarajan Ramadoss
DST-Inspire Faculty
Department of Chemistry
NIT, Tiruchirappalli

Patrons

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Rev. Dr. K. Amal SJ, Secretary
Rev. Dr. S. Mariadoss SJ, Principal

Convenor

Dr. S. Joseph Selvaraj, Associate Professor & Head

Organizing Secretaries

Dr. S. Mangalaraj, Assistant Professor
Dr. A. Arun Viveke, Assistant Professor

Contact No./ Email. **9894197674, 9655933707, icafm2025@gmail.com**

Dates to Remember

Last date for Registration - **23.01.2025**

Last date for Submission of abstracts - **31.01.2025**

Communication of acceptance for presentation - **04.02.2025**

Conference dates **13.02.2025** and **14.02.2025**

Advisory Committee

- Prof. G. Mughesh, IISc, Bengaluru
- Prof. Abhishek Dey, IACS, Kolkata
- Prof. Ramaswamy Murugavel, IITB, Mumbai
- Prof. Kuberan Balagurunathan, University of Utah, USA
- Prof. Rahul Banerjee, IISER, Kolkata
- Prof. N. Jayaraman, IISc, Bengaluru
- Prof. S. Sankararaman, Professor Emeritus, IIT Madras
- Prof. Thilagar, IISc, Bengaluru
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- Prof. R. Ramesh, Bharathidasan University, Tiruchirappalli
- Dr. Shanmugaraju Sankarasekaran, Asso. Prof, IIT Palakkad
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- Dr. K. Yuvaraj, Assistant Professor, IIT Palakkad

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