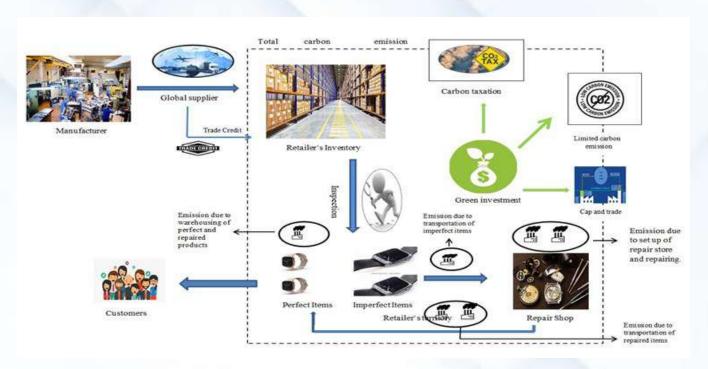


Horizon

Quarterly Newsletter

Volume 3, Issue 4

(October to December 2024)



School of Basic Sciences

College of Engineering and Technology SRM Institute of Science and Technology

Kattankulathur - 603 203, Chengalpattu District

Tamil Nadu, India















Message from the Dean Sciences



Dr. D. John Thiruvadigal
Professor and Dean Sciences
School of Applied Sciences
College of Engineering and Technology
SRM Institute of Science and Technology
Kattankulathur 603 203

I am happy to note that we are releasing Volume 3, Issue 4 of the newsletter "Horizon" with highlights on the accomplishments and activities of the School of Basic Sciences during October to December 2024. My sincere thanks to the editorial team of the newsletter "Horizon", hearty congratulations and appreciation to the faculty members, research scholars and students for their accomplishments in publishing high impact factor journals, publishing patents, and securing the research grants. I anticipate all the members to continue working with the same spirit that will enhance not only their individual career but also the school's growth.

Cover page theme:

The cover image depicts the transformative impact of the digital revolution on industrial manufacturing, specifically within the context of online-to-offline (O2O) retail and the pursuit of sustainable development goals (SDGs). It showcases a computerized numerical control (CNC) machine employing an automated inspection strategy within a simulated production system. This strategy aims to minimize waste from defective products, optimize profitability, and improve customer service across the entire retail ecosystem. This research work was reported in the Journal of Retailing and Consumer services by our faculty member Dr. Bikash Koli Dey, Department of Mathematics.

(D. John Thiruvadigal)

Message from the HoD, Chemistry



Dr. M. Arthanareeswari
Professor and Head (Admin.)
Department of Chemistry
College of Engineering and Technology
SRM Institute of Science and Technology
Kattankulathur 603 203

I am delighted to share that our I M.Sc. Chemistry and Organic Chemistry students participated in the academic festival EINSTEINOFERMIA' 24 organized by the Loyola Chemical Society (LCS), Loyola College and won the overall Championship Award and the Rolling Trophy. Hearty Congratulations to the I M.Sc. Chemistry student Mr. Sandeep Kumar for securing 2nd Place in the 8th Federation Cup Ball Badminton Championship 2024 organized by Kodagu Dist. Ball Badminton Association, Karnataka.

220 students from 22 different schools participated in the 3rd edition of the SRM Crystal Growing Challenge and show caused their creative crystal growing abilities,

and also actively expressed their talents in quiz competition. Our respected VC sir interacted and encouraged the work of students. Dean (Sciences) sir distributed the prizes and motivated the students. The event was appreciated and well received by the schools. Also, happy to share that a research scholar qualified CSIR-UGC NET lectureship in 2024 and another research scholar won best poster award by RSC Chemical Science at ChemSci. 2024, IISER Thiruvananthapuram. Many congratulations to the research scholars who received TEEP and IIPP International Internships during this period.

The Chemistry Department Alumni Day 2024 celebration created a vibrant atmosphere of camaraderie and nostalgia. More than 50 alumni took part and it was a testament to the enduring bond between the department and its alumni, strengthening networks and inspiring future collaborations. During the 90th Anniversary General Meeting of INSA, our faculty members utilized the opportunity to interact with the INSA Fellows, all special invitees to the event and received valuable inputs about excelling in research, leveraging thrust areas and collaborations. During this period, our faculty members published 92 research papers with an average IF 5.03.

Message from the HoD, Mathematics



Dr. Ritesh Kumar Dubey
Research Associate Professor and Head
Department of Mathematics
College of Engineering and Technology
SRM Institute of Science and Technology
Kattankulathur 603 203

The Department of Mathematics is excited to be part of the release of the Fourth Issue (Volume III) of our newsletter, "Horizon." We are proud to highlight the accomplishments of our students and faculty. The department extends heartfelt congratulations to all contributors for their hard work and dedication. The Intra Mathematics Festival (IMF 2024) was held on October 4, 2024, with strong participation from mathematics enthusiasts across various disciplines at SRMIST. Congratulations to all the winners of IMF 2024.

Meeting our department's alumni during the SRM Alumni Day on December 21, 2024, was truly a memorable occasion. I extend my thanks to all alumni who joined the celebration. I also wish to express my deep appreciation to all department members for their commitment and contributions

Message from the HoD, Physics & Nanotechnology



Dr. E. Senthil Kumar

Research Associate Professor and Head

Department of Physics

and Nanotechnology

College of Engineering and Technology

SRM Institute of Science and Technology

It gives me great pleasure to connect with you all again through this volume 3 issue 4 of our newsletter "HORIZON". I am delighted to share some of our department's recent achievements and ongoing initiatives. It has been marked by significant progress in both academic and research spheres, reflecting the hard work and dedication of our students and faculty. We are excited to share with you about the events -PDP on Sustainable Development Goals: Role of Nano-TechKnow-2024 showcasing first-year technology, B.Tech. students' mini-projects, and the Two-days workshop on "Academia-Industry Partnership and Intellectual Property Rights. Efforts of our faculty members to engage in several Industry connect activities are specially appreciated.

Our faculty members continue to push the boundaries of knowledge through cutting-edge research, with 106 papers published in prestigious journals (average impact factor of ~ 5.5) including 7 publications with impact factor greater than 10. The count includes 4 Nature-indexed journals. Dr. K. Kamala Bharathi has been appointed as Guest Editor in Results in Surfaces and Interfaces (Elsevier). Eighteen of our Ph.D. students have successfully defended their thesis in this said period. Congratulations to the students for their achievements with best oral/poster awards and conference publications. Congratulations to Dr. Rohit Dhir on securing 3 lakhs support from ANRF- Assistance to Professional Bodies & Seminar / Symposia Scheme to conduct the Conference on Cosmology Astrophysics and Particle Physics (CCAPP-2025).

We are thrilled to welcome our newly joined faculty members - Dr. Sujit Kumar, Dr. Eswara Vara Prasadarao Komarala, Dr. Dibyendu Dey and Dr. Raja Rajendran to the Department! We are sure that their expertise and perspectives would add significant value both in research and academics. I would like to express my gratitude to our dedicated faculty, hardworking students, and supporting staff for their continued contributions to the department. Their efforts are what make the department thrive.

Editorial Team

Dr. D. John Thiruvadigal
Dean Sciences

Prof. M. Arthanareeswari

Head, Department of Chemistry **Prof. Ritesh Kumar Dubey**

Head, Department of Mathematics Prof. E. Senthil Kumar

Head, Department of Physics and Nanotechnology

Dr. K. Ananthanarayanan

Research Associate Professor Department of Chemistry Dr. K. K. R. Datta

Research Associate Professor Department of Chemistry

Dr. A. Anuradha

Assistant Professor Department of Mathematics Dr. E. Suresh

Assistant Professor Department of Mathematics

Dr. S. Venkataprasad Bhat

Research Professor Department of Physics and Nanotechnology

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From the Editors Desk

Dear Readers,

Greetings!

We take pleasure in announcing the release of the Volume 3, Issue 4 of HORIZON, the quarterly newsletter of school of Basic Sciences that showcases the activities and achievements of our students and faculty members in the last quarter (October 2024 – December 2024).

The issue spotlights the breadth and depth of the contribution of students and faculty members towards teaching, research and consultancy which makes the school of basic sciences special. The issue also highlights the numerous accomplishments by the members of the school in research article publication, acquiring grants and fellowship, patenting and alumni activities.

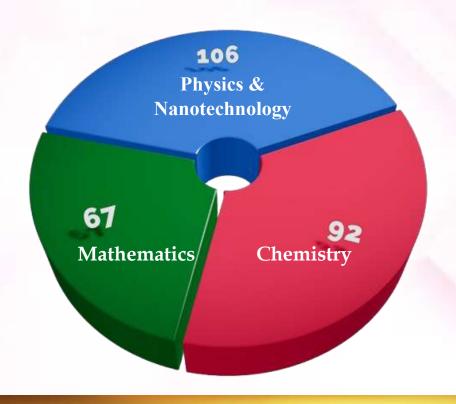
We invite all the readers' inputs for the betterment of the newsletter. Please write to us at dean.sobs.ktr.et@srmist.edu.in

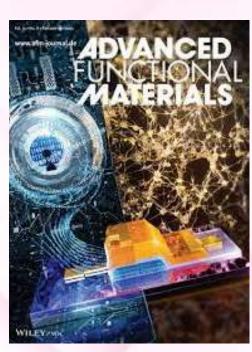
Please enjoy reading our newsletter!!

Highlights School of Basic Sciences

Key Metrics	July to September 2024	October to December 2024	
Total No. of publications (SCI/Scopus)	225	265	
Highest Impact Factor Journal			
Publication	19.2	18.5	
No of projects sanctioned	2	4	
Total grant outlay	70.70 Lakhs	19.02 Lakhs	
No of patents filed / granted	4	10	
No of book chapters	3	2	
MoUs (International / National)	2	-	
Number of Ph.D's completed	28	43	

Total number of research publications:





(Impact factor: 18.5)

Academics - Chemistry

QS world ranking 351-400 by subject.

8th position (joint) among Indian universities.

1st position (joint) under the private institutes.

Students selected for Project work in National Institutes / Industry

Ms. S. Swetha (Reg. No. RA2332009010023), II M.Sc. Organic Chemistry student got selected for doing her project work at CSIR – IICT, Hyderabad for the period of December 2024 – March 2025.

Mr. Imran Khan (Reg. No. RA2332009010019), II M.Sc. Organic Chemistry student got selected for doing his project work at CSIR – IICT, Hyderabad for the period of December 2024 – March 2025.

Ms. B. Kavipriya (Reg. No. RA2332009010020), II M.Sc. Organic Chemistry student got selected for doing her project under Taiwan Educational and Experience Programme (TEEP) at National Chung Cheng University, Taiwan for a period of three months from 2.12.2024 - 28.02.2025.

Mr. Payal Ashok Nakhate (Reg. No. RA2332009010021), II M.Sc. Organic Chemistry student got selected for doing his project work at CSIR – NEERI, Nagpur for the period of 02.12.2024-31.3.2025.

Ms. Isha Mary Abraham (Reg. No. RA2332009010022), II M.Sc. Organic Chemistry student got selected for doing her project work at IISER, Thiruvananthapuram for the period of 02.12.2024-31.3.2025.

Mr. M. Sri Dinesh (Reg. No. RA2332008010020), II M.Sc. Chemistry student got selected for doing his project work at IIT – Kharagpur for the period of 02.12.2024-31.3.2025.

Ms. M. Madhumitha (Reg. No. RA2332008010029), II M.Sc. Chemistry student got selected for doing her project work at CSIR- CLRI, Chennai for the period of 02.12.2024-31.3.2025.

Mr. M. Gregory Raja (Reg. No. RA2332008010032), II M.Sc. Chemistry student got selected for doing his project work at CSIR- CECRI, Karaikudi for the period of December 2024 – March 2025.

Student Achievements

Ms. A. Tina (Reg. No. RA2433003011034) Research Scholar, 2024 batch qualified CSIR-UGC NET lectureship.

Mr. M. Nandakumar (Reg. No. RA2233003011034) has been awarded a poster prize from Chemical Science at the ChemSci 2024: Leaders in the field symposium, IISER Thiruvananthapuram at 9 - 11, Dec. 2024

Mr. Nandakumar M, Research scholar was awarded best poster award by RSC Chemical Science at ChemSci 2024, IISER Thiruvananthapuram.

I M.Sc. Chemistry student **Mr. Sandeep Kumar** secured 2nd Place in the 8th Federation Cup Ball Badminton Championship 2024 organized by Kodagu Dist. Ball Badminton Association, Karnadaka from 6-8 Dec. 2024

I M.Sc. Chemistry and Organic Chemistry students took part in the academic festival EINSTEINOFERMIA' 24 organized by the Loyola Chemical Society (LCS), Department of Chemistry, Loyola College on 14.12.2024.

The Prize winners are given below:

I place in PG Quiz: Deepashwar and D Sindhuja

I place in Chem Poster : D Sindhuja

I place in Collage Making: D Sindhuja

I place in Rangoli: D Sindhuja

III place in Surprise Event: Tejaswini and R Swathi

III place in Chem Auction: Tejaswini

III place in Cooking without Fire: E S Nabhasindu and R Krishnan

I place in Blind Folded Sensory Evaluation: E S Nabhasindu, R Krishnan and R Swathi





Sindhuja.D, Shruthika.M, Ragul.M of I MSc Chemistry won the first place in CHEM RANGOLI



Sindhuja.D of I MSc Chemistry won the first places in COLLAGE MAKING and POSTER PRESENTATION.



Deepeshwar.S and Sujitha.T of I MSc Chemistry won the **first place** in **PG QUIZ** and bagged **the ROLLING TROPHY** for Quiz.



Krishnan.R, Nabhasindu.E.S of I MSc Chemistry won the third place in COOKING WITHOUT FIRE



Tejeswini.T, Swathi.R of I MSc Chemistry won the third place in SURPRISE EVENT.



Shakshi Kumari.S and **Nadiya Naaz** of I MSc Organic Chemistry won the second place in CHEM DEBATE.



Sri Karuneeshwari.R, Vinish.K, Tejeswini.T of I MSc Chemistry won the third prize in CHEM AUCTION and **Vinish.K** won second place in CHEM MEMES



Sri Karuneeshwari.R and **Nivetha.S** of I MSc Chemistry won the third place in CHEM SET







On 14th December, 2024, **LOYOLA COLLEGE** has conducted an intercollegiate fest – **EINSTEINOFERMIA'24** by the Department of Chemistry and the students of 1st MSC General and Organic Chemistry participated and won the overall winners Rolling Trophy.



Krishnan.R, Nabhasindu.E.S, Swathi.R of I MSc Chemistry won the first place in Blind Fold Sensory Competition



I M.Sc. Chemistry Students along with HOD and Class incharge with the overall winner rolling traphy.

INTERNATIONAL INTERNSHIP



Ms. Anisha Research Scholar, 2022 batch received Short-Term Research Internship on Taiwan Experience Education Program (TEEP) at Kaohsiung Medical University in Taiwan, under the guidance of Prof. Hsuan-Ying Chen from Department of Medicinal and Applied Chemistry, carry out an internship for a period of 6 months (20.12.2024 – 30.6.2025)

Mr. Bharathi Kannan Raja (Reg. No. RA223003011012) Research Scholar, 2022 batch received Short-Term Research Internship on Taiwan Experience Education Program (TEEP) at National Sun Yat-sen University in Taiwan, under the guidance of Dr. Da-Ren Hang from Advanced Semiconductor Laboratory Department of Materials and Optoelectronic Science and Center of Crystal Research, carry out an internship for a period of 6 months (1.12.2024 – 29.5.2025).





Mr. Ganesh (Reg. No. RA2133003011046) Research Scholar, 2021 batch received International Internship Pilot Program (IIPP), at Providence University in Taiwan, under the guidance of Dr. Dr. Hsien-Hsin Chou from Associate Professor Department of Applied Chemistry, carry out an internship for a period of 3 months (1.12.2024 – 28.2.2025).

Ms. S. Sri Vanaja (Reg. No. RA2133003011062) Research Scholar, 2021 batch received six months internship programme in the Department of Materials Science and Engineering, National Dong Hwa University (NDHU), Taiwan from 15.12.2024 – 15.06.2025.



Faculty Outreach Activities

Dr. Priyadip Das shared his valuable knowledge as a Guest Speaker in the conference "Biociencia 2024 – 1st National Conference and Technical Symposium on Recent Developments in Biotechnology and Applied Bio-Sciences" at Saveetha Institute of Medical and Technical Sciences (SIMATS) on 17.10.2024.

Dr.Anju V G delivered a talk on Fundamentals of Electrochemistry and Its Applications, at International Centre for Clean Water at IITM Research Park on 21st October, 2024

Dr. Noufal Kandoth delivered a talk on Spectroscopic Techniques and Photo-induced processes, at International Centre for Clean Water at IITM Research Park on 21st October, 2024









Dr. N. Clament sagaya Selvam, Research Asst. Professor, Department of Chemistry was awarded **Visting Scientist Award to** National Tsing Hua University (NTHU), Taiwan during 29th October 2024 to 9th November 2024. He has delivered a talk on "Importance of adopting green hydrogen technology: India's policies at NTHU









Dr. Gopal Chandru Senadi delivered Invited Lectures and collaborative research at Kaohsiung Medical University, Kaohsiung, Taiwan during 4-7, November 2024 and other collaborative research on Flow Chemistry in the laboratory of Prof. Wei-Yu Lin, Chair of the Department of Medicinal and Applied Chemistry at Kaohsiung Medical University during 8-15, November 2024.



Dr. Noufal Kandoth delivered an invited talk entitled "Multimodal Biofilm Inactivation Using Photocatalytic Metal Halide Perovskite-based Ternary Heterojunctions and their operando spectroscopic/microscopic studies" in the International Conference on "Ultrafast Nonlinear Optics and Optical Spectroscopy" UNOOS 2024, during 10-12, Dec, 2024 at IISER Mohali.





Prof. Shigeyuki Yagi delivers his talk on 31.12.2024

Special Talk: Prof. Shigeyuki Yagi, Osaka Metropolitan University Japan delivered a special talk entitled "Development of Phosphorescent Iridium(III) Complexes for Near-Infrared Organic Light-Emitting Diodes" on 31.12.2024 at SRM IST-KTR Campus.



Prof. Melanie M. Britton deliver a talk on In Operando Magnetic Resonance Imaging for Monitoring Reactions in Electrochemical Cells

ALUMNI DAY 2024-2025







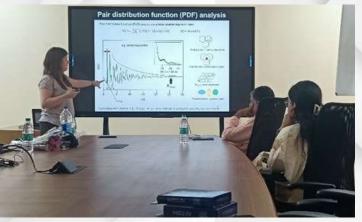
Faculty members with alumni





Prof. V. Subramanian is felicitating **Prof. Melanie M. Britton** and **Dr. Phoebe K. Allan**School of Chemistry, University of Birmingham, UK





Dr. Phoebe K. Allan presenting her talk on In situ pair distribution function analysis of next-generation battery material

Special Talk : Prof. Melanie M. Britton and Dr. Phoebe K. Allan, School of Chemistry, University of Birmingham, UK delivered special talks on 25.11.2024 at Sir C V Raman Research Park, 9th floor Conference Hall , SRM IST-KTR Campus.

Organic Chemistry Workshop on 'Bridging Theory and Practice (OCW-2024)

The Department of Chemistry, SRM Institute of Science and Technology (SRMIST) organized the Organic Chemistry Workshop on 'Bridging Theory and Practice (OCW-2024)' during 21-22, November 2024 at the SRMIST, Kattankulathur. The goal of the workshop was to give participants from various colleges and our institute's research scholars a common platform to present a conceptual overview of recent advancements in the field of organic chemistry. **Prof. M. Arthanareeswari**, Head and Convenoer of this workshop welcomed the participants, outlined our founder chancellor's goals, and the history of our institute's development.



Dr. M. Arthanareeswari, Convener - OCW 2024 & Prof. and Head of Chemistry welcomed the participants



Dr. Baburaj Baskar, gave the talk on "NMR spectroscopy: theory and structural elucidation of organic molecules"

On the first day, **Dr. Baburaj Baskar**, an associate professor and the first resource person for OCW-2024, gave the talk entitled "NMR spectroscopy: theory and structural elucidation of organic molecules" in Seminar Hall I, located on the 13th floor of UB.



Dr. Venkatramaiah Nutalapati, delivered a lecture on' Multifunctional hydantoins: medicinal drugs from academia to the chemical industry'.



Dr. Priyadip Das, Research Associate Professor, and the resource person on "Short peptide-based self-assembled super-structures - a superior platform for site-specific drug delivery".

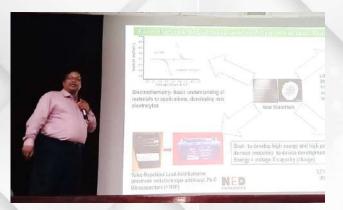
All the participants were divided into four groups to get hands-on training in NMR, LC-MS, Flow Cytometry, Confocal microscope, PL, UV, and GPC instruments. **Dr. Kesavan** faculty in charge of the NMR instrument, **Dr. M R Ganesh,** faculty in charge of Flow Cytometry and Confocal microscope, **Dr. Venkatramaiah Nutalapati,** faculty in charge of PL and UV instruments and **Dr. Samarendra Maji,** faculty in charge of GPC instrument demonstrated to the participants providing hands-on training which we believe helped the participant a glimpse of reality that they followed during the technical session.

CHEMISTRY ASSOCIATION EVENT

Department of Chemistry, SRM IST, Kattankulathur campus organized a lecture on "Carbon: a Ubiquitous Electrode Material for Lithium-Based Rechargeable Batteries" on 11.11.2024. The speaker of the event is **Surendra K. Martha**, Professor, Department of Chemistry, Indian Institute of Technology Hyderabad Kandi, Sangareddy, Telangana.



Felicitation of Prof. **Surendra K. Martha**, IIT Hyderabad by HOD Chemistry



Prof. Surendra K. Martha delivers his talk

Prof. A.Ajayaghosh, SSB Chair Professor arranged a special talk by **Prof. Takuzo Aida**, Distinguished Professor, University of Tokyo, Japan on 11.11.2024 at SRMIST.



Prof. A.Ajayaghosh, SSB Chair Professor introduces Prof. Takuzo Aida, Distinguished Professor, University of Tokyo, Japan 11.11.2024 at SRMIST



Prof. Takuzo Aida, Distinguished Professor, University of Tokyo, Japan delivers a talk on Supramolecular Polymers as Dynamic Functional Materials on 11.11.2024.



Audience at the special talk by Prof. Takuzo Aida

Department of Chemistry, SRM IST, Kattankulathur campus organized a A One-day National Workshop "Fostering Human Values to Adolescents - Role of a Teacher" on 09th Nov, 2024 at GN Ramachandran Hall, 6th floor Seminar Hall, Biotech building. The speakers of the event are **Dr. T. Madhusudan**, Professor, Department of Psychiatry, SRM Medical College Hospital and Research Centre, **Dr. T. Pushpa Malini**, Assistant Professor, and **Dr. Tanay Kundu**, Assistant Professor, Dept. of Chemistry, SRMIST

In the first talk, the speaker **Prof. T. Madhusudan** (Professor, Department of Psychiatry, SRM Medical College Hospital And Research Centre) enabled teachers to identify abnormal behaviour among students, how to categorize them according to different parameters and take necessary steps as instructed. He shared several helpline and institute links to refer to in case of further information.

In the second talk, **Dr. Pushpa Malini T** gave a holistic approach towards education and provided several frameworks to uplift the values among students and enable them to build their lives around value system that will benefit self as well as society in general.

In the third talk, **Dr. Tanay Kundu** highlighted the essential need for a value based education system, the structure of value education system from grassroot level to the top technological prospects and how the NEP2020 is planning to enable the teachers and students to promote value educations in the self, society and finally develop a holistic worldview.







UHV – One day work for school teachers

Activities for school children

The 3rd edition of the SRM Crystal Growing Challenge (3rd-SRMCGC) was conducted on 5.10.2024 by the Department of Chemistry, SRMIST, Kattankulathur, to reach out to the higher secondary school students from the neighbourhood. 220 students from 22 different schools registered online via the Google link provided. Respected Vice-Chancellor, Prof. Dr. C. Muthamizhchelvan sir graced the exhibition and interacted with the participating young minds. Dr. V. Thirumurugan, Associate Director, campus-life, also visited the exhibition.

Prof. D. John Thiruvadigal, Dean (Sciences) graced the valedictory function and distributed the prizes and certificates to the winners and participants. He addressed the audience and enlightened them about the importance of crystals in scientific research, as well as personality development

Some glimpses of various events – interactions between school students and professors of SRMIST of crystals, quiz contest, valedictory function, distribution of certificates and mementos.









Glimpses of Interaction with INSA fellows during December 9-11, 2024





Interaction meeting with **Prof. TK Chandrashekar**, Senior Professor, IIT Kanpur, Founder Director, NISER, Director NIIST, Founder Secretary SERB, DST Govt. of India.



Interactions with **Dr. Ramendra Sundar Dey** Scientist-D, Electrochemistry of NanoMaterials (DENanoMat), Institute of Nano Science and Technology (INST), Mohali (Punjab)



Interaction meeting with **Prof. Rahul Banerjee**, Indian Institute of Science Education and Research (IISER) Kolkata.



Interaction of faculty members of Department of Chemistry with **Prof. Lakshmi Kantam Mannepalli**, Distinguished Professor, ICT, Mumbai.



Interaction meeting with **Prof. J. N. Moorthy**, Director, IISER
Thiruvananthapuram



Internaction meeting with **Prof. Balasubramanian Sundaram,**JNCASR, Bangalore.



Faculty members with **Dr. Shridhar R. Gadre,** INSA Senior Scientist, Departments of Chemistry and Scientific Computing, Modelling and Simulation, Savitribai Phule Pune University Pune

NEWLY JOINED FACULTY MEMBERS



Dr. V. G. Anju

Dr. V. G. Anju received her PhD from IISc., Bangalore in 2017. She was a Research Officer and Asst. Manager Research in IOCL, Faridabad, Haryana from Oct. 2017 – Dec. 2021. She was a Project Scientist in IISER, Thiruvananthapuram in 2022 and a Post – Doctoral researcher at IIT, Madras in 2023. She is an experienced researcher with more than 10 years of experience in the field of electrocatalysis, batteries, catalyst design and synthesis and renewable energy production with an impressive background in managing projects in collaboration with government and nongovernment organizations/companies.

Dr. Noufal Kandoth has received PhD from University of Catania, Catania, Italy in 2010. He was a Post – Doctoral fellow ISOF, National Research Council, Bologna, Italy during 2014-2015 and ICIQ, Barcelona Institute of Science and Tech., Tarragona, Spain during 2016-2020. Later he joined as a SRA Pool Scientist in IISER Kolkata (2020 – Oct. 2024). His research interests are Supramolecular nanomaterials, functional dyes & metal complexes and metal nanoparticlesand its heterogenous materials for photochemistry, photophysics & photobiology applications.



Dr. Noufal Kandoth



Dr. Santi Prasad Rath has received PhD from Indian Association for the Cultivation of Science (IACS) under Jadavpur University (Kolkata), India in 2020. He was a Postdoctoral Research Fellow at Prof. Ariando and Prof. T. Venkatesan's group, Dept. of Physics, National University of Singapore. (October 2020-September 2021). Later he joined as a Specialist Scientist in Indian Institute of Science (IISc), Bangalore (Nov. 2021 – Nov. 2024). His research interests are Coordination Chemistry, Transition Metal Complex, Electrochemistry, Materials Chemistry, Nanoscience and Nanotechnology, Molecular Electronics, Neuromorphic Computing, *in-situ* Spectroscopy.

Dr. Santi Prasad Rath

FACULTY EXTERNAL REACH



Dr. Ritesh Kumar Dubey delivered a talk on NCMW - Numerical Methods for Partial Differential Equations (2024) in Indian Institute of Petroleum and Energy (IIPE), Visakhapatnam from 16 Dec 2024 to 27 Dec 2024.





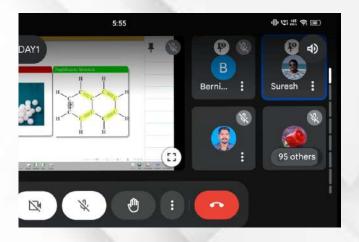
Dr. E.P. Siva delivered an Invited Talk at the International Conference on Matrix Analysis and Mathematical Modelling (MAMM 2024) held at Dr B. R. Ambedkar National Institute of Technology, Jalandhar during November 29 - December 01, 2024.



Dr. L. Shobana, was the Judge of the Event MathLeague organized by Shikshaa Public School, Chennai on 19th October 2024.



Dr. M. Shafiya Delivered a series of lectures on Complex Analysis in the Five days workshop for CSIR - UGC NET GATE Aspirants on 16-12-2024 at Central University of Tamil Nadu, Thiruvarur.



Dr. E. Suresh delivered an Online Invited Talk in the International workshop on Topological Indices and Domination in Graphs organized by the B.S. Abdur Rahman Crescent Institute 24



As part of Community Service, Dr. R. SENTHAMARAI served as the Solar Lamp trainer in Solar Ambassador Workshop 2024 organized by Energy Swaraj Foundation.



Dr. R. SENTHAMARAI delivered Invited Talk and served as Technical Chair at the International Conference titled "International Conference on Pure and Applied Mathematical Sciences (ICPAMS 2024)," organized by the Department of Mathematics, Govt. College Kullu, Himachal Pradesh



Dr. K. Sheena Christy, delivered an invited talk at "National Mathematics Day" organized by the PG Department of Mathematics and the Omicron Club at Government Arts and Science College, Perumbakkam, Chennai on December 23, 2024.



Dr. R. SENTHAMARAI served as BOS Member at Mohamed Sathak Engineering College, Chennai on 16th October 2024.



Dr. R. SENTHAMARAI delivered Invited Talk and chaired a session at the International Conference on Matrix Analysis and Mathematical Modelling held at Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab, from November 29 to December 1, 2024



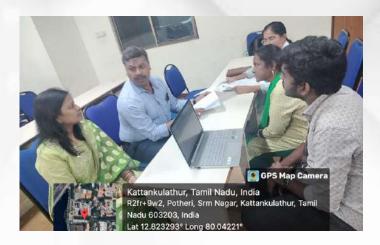
Dr. Bikash Koli Dey delivered a speech on Structuring a Research Paper: Section by section guide a two-week Faculty Development Program on "Effective Research and Proposal Writing Strategies" organized by INNOVA WORLD_Research Training 25 Centre on 9th December 2024.



Dr. E. Suresh delivered an invited talk at Sairam Engineering College on "A Math-Driven Approach to Mastering Graph Algorithms" at 11-12-2024.



Dr. E.Suresh delivered a talk on "SMART TOOLS FOR SMART CLASSES: A NEW PERSPECTIVE" at 12-12-2024 as a Keynote speaker SCICON-2024, Auxillium Women's College, Pudhukottai



Dr. Chandra Shekhar, Professor, BITS Pilani, visited the Department of Mathematics, on 20th December 2024 during 2.30 to 5.00pm. The faculty members and research scholars had the opportunity to interact with him, during which the guest recommended several journals and book chapters. He emphasized the importance of mastering foundational concepts and staying current with research developments. Additionally, he shared valuable insights on various approaches to tackling modelling problems. The interaction proved to be incredibly enriching for all the faculty and research scholars who attended.



On 21st December 2024, SRM Alumni Day was celebrated at SRM Institute of Science and Technology. Around 40 SRM Mathematics alumni attended the event, making it a vibrant and engaging occasion. In the afternoon, department-wise meetings were held from 2:30 PM to 5:00 PM, providing a more intimate setting for the alumni to reconnect and share their experiences. The alumni were then invited to share their thoughts on key areas such as admissions and placements.





The Sri Ramanujan Mathematics Club at the Department of Mathematics, SRM Institute of Science and Technology, organized a one-day Intra Mathematics Festival (IMF 2024) on October 4, 2024. There was an overwhelming response from about hundred enthusiastic participants from various branches to participate in these events. The festival witnessed the true spirit, enthusiasm, and dedication of the students and all the office bearers to making the event a grand success.

EMF - 2024 PRIZE WINNERS

S. No	Event Name	Prize Winners	Position
		P RADHAKRISHNAN (RA2332005010003)	1st
1	Math Wars	Taruni Mamidipaka (RA2111003010888)	2nd
		Arushi Lakhera (RA2411029010044)	3rd
	Math Quiz	Saloni Tripathi (RA2432005010021 1)	1st
2		Shri Sanandaa H (RA2432005010007)	2nd
		Gokul P (RA2211001010027)	3rd
	Integration Bee	Himanish Srivastava (RA2411003010946)	1.04
		Annany mishra (RA2411003010918)	1st
2		Aditya Verma (RA2311050010083)	and
3		Gyanam Shah (RA2311050010085)	2nd
		MANJU.A (RA2332005010012)	2rd
		Thrisha.S (RA2332005010010)	3rd

Faculty training/development

- **Dr. Bikash Koli Dey,** has been appointed as an Academic Editor for two prestigious Scopus and ESCI-indexed journals: 1) International Journal of Mathematics and Mathematical Sciences (Operations Research Section) Advances in Operations Research
- **Dr. D. K. Sheena Christy** successfully completed the NPTEL Course in Essential Mathematics for Machine Learning.
- **Dr. R. Senthamarai** successfully completed the NPTEL Course in Introduction to Probability Theory and Stochastic Processes
- **Dr. V. Subburayan** delivered an Invited Talk in the Annual Conference of ISMMACS and International Conference on Differential Equations: Theory, Computation and Applications organised by the Department of Mathematics, South Asian University, New Delhi, during 29 November 1 December, 2024.
- **Dr. V. Subburayan** successfully completed the UHV-II FDP during October 1-5, 2024.
- **Dr. K. Dhanalakshmi** attended One week Online Workshop on Graph Theory and Python, organized by Infinity Research & Development Institute and Indian Mathematics Professors Association, from 22nd October to 29th October 2024.
- **Dr. S. Vidhyanandhini** attended One week Online Workshop on Graph Theory and Python, organized by Infinity Research & Development Institute and Indian Mathematics Professors Association, from 22nd October to 29th October 2024.
- **Dr. V. Suvitha** attended five Days online FDP on the theme "Satellite Communication: Innovating for a connected World" starting from 15-10-2024 to 20-10-2024.
- Dr. R. Krishna Kumari attended FDP in Soft Skills (course through MOOC's mode) by NPTEL-AICTE.
- **Dr. S.A. Karthick** attended International conference on Advanced Mathematical Modelling, Simulation and Nonlinear System (ICAMMSNS 24)
- **Dr. R. Krishna Kumari** Participated an online workshop on "Machine Learning" organized by Reccsar private limited, held on 10 November 2024.
- **Dr. R. Senthamarai** Chaired a technical session at the Intenational conference on matric analysis and mathematical modelling (MAMM 2024) held at Dr. B. R. Ambedkar National Institute of Technology, Jalandhar during November 29-December 01, 2024.
- **Dr. V. Padma** attended National Symposium on Mathematics and applications (NSMA-24) on 22-12-2024 at Department of Mathematics , Indian Institute of Technology, Chennai.

- **Dr. B. Vennila** attended National Symposium on Mathematics and applications (NSMA-24) on 22-12-2024 at Department of Mathematics , Indian Institute of Technology, Chennai.
- **Dr. P. Uma Maheswari** attended National Symposium on Mathematics and applications (NSMA-24) on 22-12 -2024 at Department of Mathematics, Indian Institute of Technology, Chennai.
- **Dr. V. Suvitha** attended International Conference on "Mathematics and its Applications (ICMA-2024)" Organized by PG & Research Department of Mathematics, Periyar Arts College, Cuddalore, Tamilnadu, India on 13th December, 2024.
- **Dr. Leelavathy** attended National Symposium on Mathematics and applications (NSMA-24) on 22-12-2024 at Department of Mathematics, Indian Institute of Technology, Chennai.
- **Dr. V. Suvitha** attended Faculty Development Program on "Innovations in Machine Learning, Artificial Intelligence, Data Science & Modelling (IMLAIDSM'24)" organized by Department of Mathematics & Statistics in collaboration with Department of ECE, VIGNAN's, Vadlamudi, Gunter Dist., A. P., December16-23, 2024.
- **Dr. R. Krishna Kumari** Participated an online workshop on "Machine Learning" organized by Reccsar private limited, held on 10 November 2024.
- **Dr. S. Sabarinathan** attended International Conference on "Mathematics and its Applications (ICMA-2024)" Organized by PG & Research Department of Mathematics, Periyar Arts College, Cuddalore, Tamilnadu, India on 13th December, 2024.
- **Dr. S. Sabarinathan** attended Faculty Development Program on "Innovations in Machine Learning, Artificial Intelligence, Data Science & Modelling (IMLAIDSM'24)" organized by Department of Mathematics & Statistics in collaboration with Department of ECE, VIGNAN's, Vadlamudi, Gunter Dist., Andhra Pradesh, December 16-23, 2024.
- **Dr. Bikas Koli Dey** attended Two-week Faculty Development Program on Effective Research and Proposal Writing Strategies with the theme "Structuring a research paper: Section by Section Guide" from 9th December 2024 to 24th December 2024.
- **Dr. M. Kousalya** attended Five days workshop for CSIR UGC NET & GATE Aspirants-December 16-20, 2024 in Department of Mathematics, Central University of Tamil Nadu, Thiruvarur.
- **Dr. S. Thenmozhi** attended Five days workshop for CSIR UGC NET & GATE Aspirants-December 16-20, 2024 in Department of Mathematics, Central University of Tamil Nadu, Thiruvarur.
- **Dr. R. Krishna Kumari** attended One Week Faculty Development Program on ,"National Educational Policy and Outcome Based Education" organized by Department of CSC.,M.C.A.,AIML, S.A.Engineering College, Chennai from 26th 31st December 2024.

Newly joined faculty:



Dr. R. Krishna Kumari joined the Department of Mathematics at SRM Institute of Science and Technology as an Assistant Professor in November 2024. She holds M.Sc., M.Phil., M.Ed., TNSET, and Ph.D. qualifications. She completed her post-doctoral research under the guidance of Prof. Sivaneasan Bala Krishnan (Singapore Institute of Technology), with co-supervisors Prof. Siva Shankar (KG Reddy College of Engineering and Technology) and Prof. Prasun Chakrabarti (Sir Padampat Singhania University). With over six years of teaching experience, her research interests include Formal Languages and Automata Theory, Word Combinatorics, Graph Theory, Graph-Based Machine Learning, and Pedagogy and Transformative Approaches in Education.

Dr. S. Ganesamurthy, joined in the Department of Mathematics, SRM Institute of Science and Technology, Chennai, India. Prior to this, he held a postdoctoral research position at Periyar University, Salem, funded UGC from December 2021 to August 2024. Dr. Ganesamurthy earned his Ph.D. degree from the Department of Mathematics, Kalasalingam Academy of Research and Education, , India, in April 2019 and his master's and bachelor's degrees from Saradha Gangadharan College (affiliated by Pondicherry University), Puducherry, India in 2014 and 2011, respectively. Since 2018, he has published 11 journal articles in reputed SCIE/Scopus Indexed journals. He has presented several research papers at international/National conferences as



an Invited Speaker and chaired several international conferences. Further, he won the Prof. R. Balakrishnan Endowment Best Paper Presentation Award at the 18th Annual Conference of ADMA and Graph Theory Day, Vellalar College for Women, Erode, India. Currently, Dr. Ganesamurthy is focused on research in Graph decomposition problems and Algorithmic Graph Theory. He aims to make significant contributions to the field of Combinatorics and Discrete Mathematics.

Academics - Physics and Nanotechnology

PDP on "Sustainable Development Goals: Role of Nanotechnology



The Department of Physics and Nanotechnology at SRMIST, Kattankulathur, held a six-day PDP on "Sustainable Development Goals: Role of Nanotechnology" from Dec 2-7, 2024. With 75 participants, the event delved into nanotechnology's role in clean energy, water purification, healthcare, and environmental sustainability. Experts discussed nanostructured materials, green fuels, hybrid vehicle batteries, nanoelectronics, and advanced water technologies. The program showcased SRMIST's commitment to sustainable research and innovation,

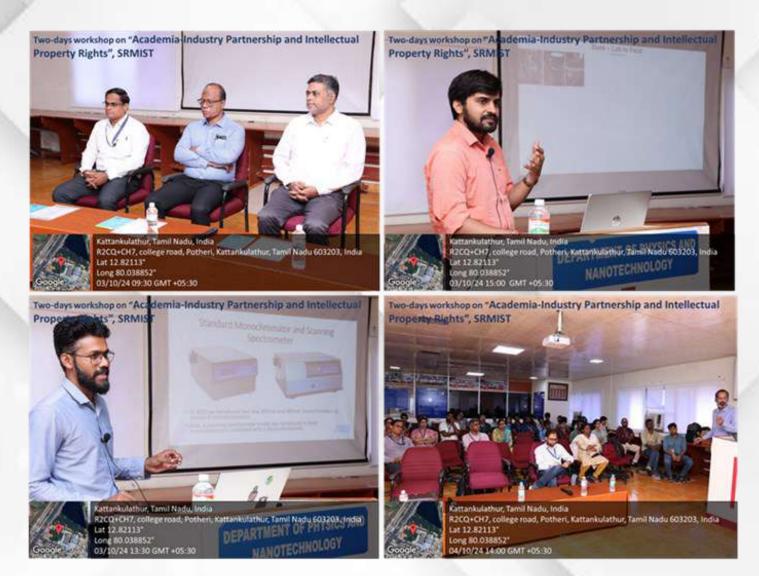
TechKnow-2024



SRMIST, Kattankulathur, hosted "TechKnow-2024" from Dec 2-6, showcasing first-year B.Tech students' miniprojects on Electromagnetic Induction, Quantum Mechanics, Semiconductor Physics, and more. With over 3,500 participants, the event emphasized the practical application of physics in real-world scenarios. Outstanding projects were awarded Certificates of Merit, promoting research mindsets and innovative thinking. This initiative highlighted the transformative potential of physics in technology and society, encouraging hands-on learning and problem-solving skills.

Academics - Physics and Nanotechnology

Two-day workshop on "Academia-Industry Partnership and Intellectual Property Rights"



The Department of Physics and Nanotechnology's two-day workshop on "Academia-Industry Partnership and Intellectual Property Rights" was held from 3rd to 4th October 2024 at SRMIST, Kattankulathur. The event promoted academia-industry collaboration for innovative solutions to real-world challenges. Featuring seven sessions with expert speakers, interactive discussions, and networking opportunities, participants gained insights into intellectual property management, innovation protection, and commercialization, fostering a deeper understanding of mutually beneficial partnerships.

Industry Connect Activities:

Faculty	Industry	Outcome
Prof. Sarin Sundar and Prof. Karthigeyan	SRM Technologies	Visited the manufacturing facility in December 2024 to explore potential collaboration opportunities. This visit was initiated upon an invitation from the President's office.
Industry Representatives and Prof. Sanjay Kumar Mehta	Elena Geo Systems	Representatives from M/s Elena Geo Systems visited the institute to discuss the development of courses on navigation systems. An MoU and NDA were signed at the institute level to formalize this collaboration.
Prof. Sarin Sundar	Lam Research	An institute-level NDA and MoU have been signed, resulting in the acquisition of \$1.7 million worth of industry software (110 licenses) for training in semiconductor virtual nano fabrication. Prof. Sarin was invited to IISc-Centre for Nanoscience and Engineering in November 2024 for advanced training and the rollout of the IISc+LAM+ISM semiconductor workforce training program.
Prof. Chandra Mohan and Prof. Shailendra Kumar Saxena	Virtual	Received training SEMulator3D Semi- conductor Skills development at IISc in November 2024 through online.
Prof. Bhat S, Prof. Malar P, Prof. Kamala Bharathi, Prof. Anbumozhi Angayarkanni, Prof. Sarkar D, Prof. Devanand G, Prof. Eswaraiah V and colleagues and PhD students	Industrial Research and Innovation Summit (IRIS 2024)	Faculty from SRM IST showcased their innovative products through patents and prototypes at IRIS 2024, attracting significant attention from several visiting companies. The event provided a platform for industry-academia collaboration and potential commercialization opportunities.

Industry Driven Course on Semiconductor fabrication

A joint industry-led course on semiconductor virtual nanofabrication has been prepared and is scheduled for rollout in early 2025. This course, offered in collaboration with ISM, IISc-CeNSE, and LAM Research, provides hands-on training in semiconductor fabrication processes (PVD, CVD), metrology, and materials engineering. It includes industry skill certification aiming to upskill postgraduate and Ph.D. students for India's growing semiconductor workforce demands. The process for upgrading a 50-seat computer lab has been initiated to support the implementation of the semiconductor training program.

Value added course:

CSIR-NET/GATE Preparatory Course (even semester 2024-2025) for MSc II year students by Dr. P. Sivakumar and Dr Jaivardhan Sinha

Awards/ recognitions / honours received by Faculty & Students:

Faculty members:

Name	Award/ recognition / honor	Awarding agency/event
Dr. K. Kamala Bharathi	Guest Editor - Results in Surfaces and Interfaces	Elsevier

	PhD Student Achievements & Placements			
S.N o.	Scholars Name	Achieve- ments / Place- ments/ Higher Education De- tails	Place / Ven- ue / Date	Photos
1	MS. HARSHINI SHARAN	Best Poster Award	BARC, Chemistry Division, Society of Material Chemistry, Mumbai. 7th December 2024	disciplinary Symposi Becamber 4: पदार्थ रसायनिकी पर 10व प्रियाल 4 र
2	MR. ANDEM SANDEEP	Cleared Tel- angana State Eligibility Test (TG-SET 2024)	(TG-SET 2024)	

3	MS. UDHAYAKEER- THANA C	Best Poster Award	International Conference on Next- Generation Sustainable Materials for Water and Energy Solutions (SuWatE'24), held from December 19 to 21, 2024	enc Wat Hall
4	AJITH P VARGHESE	Best Oral Presentation	SuWatE' 2024, Venue: VIT-AP Amaravati, Date: 19/12/2024 - 21/12/2024	WITTAP With (NUTARI) WITTAP WITTAP
5	SIDDIVINAYAKA T S	Best paper from springer (Unveiling the angle dependence of anisotropic transmission resonances and study of exceptional point in 1D photonic structures)	Photonics-2024, IIT Kharagpur, 12-Dec2024 to 15-Dec-2024	
6	S. DIVYADHARSHINI	BEST ORAL PRESENTATION AWARD AT VIT - AP	International Conference on Next- Generation Sustainable Materials for Water and Energy Solutions (SuWatE'24), held from December 19 to 21, 2024	Pie Mats Lutis

M.Sc./B.Sc./M.Tech./B.Tech. students:

Mr ASHOK KUMAR K, a Second-Year IV Sem M. Sc. student (RA2332006010013), has published his research in the AIP conference proceedings:

Aiswarya Ravichandran; Ashok Kumar Kumar; Amirthavarshini Chandrasekar; Udhayakeerthana Chinnathambi, Kalaivani Thirunavukarasu Comparative study on effect of pH on pure nickel oxide and copper oxide nanoparticles using sodium hydroxide precursor photocatalytic activity, AIP Conf. Proc. 3170, 030009 (2024)

Newly joined faculty:



Dr. Sujit Kumar joined the Department of Physics and Nanotechnology, SRM Institute of Science and Technology as an Assistant Professor in October 2024. Dr. Kumar brings a wealth of research experience from prestigious international institutions, including the Ulsan National Institute of Science and Technology (South Korea), the Institute of Nanotechnology and Advanced Materials, Bar-Ilan University (BIU), Israel, and Weizmann Institute of Science (WIS), Israel. He was awarded the prestigious PBC Fellowship by the Ministry of Higher Education in Israel to conduct postdoctoral research under Prof. David Cahen at the BIU and WIS research institutions. He also worked briefly as a senior postdoctoral researcher at the Tata Institute of Fundamental Research, Hyderabad, before joining SRMIST.

Dr. Kumar did his Ph.D. at IIT Kharagpur, where he focused on enhancing the performance efficiency of organic and hybrid photovoltaic devices. His research interests encompass next-generation soft semiconductor materials such as halide perovskites and organic semiconductors, exploring their non-trivial (opto-) electronic properties such as self-healing defects, defect tolerance, etc., and focusing on their application in devices like photovoltaics, light-emitting diodes, and field-effect transistors. Recently, he has been exploring the possibility of molecular doping of halide perovskites, a class of (surprisingly) fantastic optoelectronic materials, both in three- and two-dimensional forms, aiming to improve their functionality in device applications.

Dr. Eswara Vara Prasadarao Komarala joined as a Research Assistant Professor in the Department of Physics and Nanotechnology, SRM Institute of Science and Technology on 16 December 2024. He completed his Ph.D. from the Indian Institute of Technology Bombay in 2017. Before joining the SRM-IST, he worked as a Post-Doctoral Fellow for more than 8 years at prestigious institutions including Tel Aviv University, Sungkyunkwan University, and Khalifa University.

With a focus on advanced functional ceramic materials, his research spans various fields, including biomedical technologies, Gas-to-Liquid technology, CO2 val-



orization, NH3 synthesis and cracking, and electrochemical energy conversion. He has authored over 30 journal articles, with an h-index of 18, and holds 4 US and international patents. Additionally, he has presented at 17 national and international conferences. His current research is focused on advancing the materials that address key challenges in energy efficiency and environmental sustainability which aligns with some of UN's 17 Sustainable Development goals.



Dr. Dibyendu Dey has joined as a Research Assistant Professor in the Department of Physics and Nanotechnology at SRM Institute of Science and Technology in December 2024. Dr. Dey earned his Ph.D. from the Department of Physics at IIT Kharagpur, where his research focused on computational condensed matter physics. Prior to that, he completed his M.Sc. in Physics at IIT Roorkee and his B.Sc. in Physics at Jadavpur University. During six years of postdoctoral research, he gained valuable experience at Arizona State University, University of Maine, and University of Central Florida in the United States.

Dr. Dey's research expertise lies in computational condensed matter and materials physics, with a strong foundation in Density Functional Theory (DFT), high-throughput calculations, and machine learning. His work spans diverse and impactful areas, including energy materials for solar cells, supercapacitors, and batteries; nanoscale 2D materials for spintronics and flexible electronics; and quantum materials driving advancements in quantum computing and information. He also has extensive experience working in the field of strongly correlated physics, focusing on magnetism, multiferroics, and superconductivity.

Dr. Raja Rajendran joined the Department of Physics and Nanotechnology at SRM Institute of Science and Technology as an Assistant Professor on December 6, 2024. He completed his Ph.D. from Anna University between 2011 and 2015. His research focuses on supercapacitors and solar hydrogen generation. Subsequently, he worked as an Assistant Professor at Saveetha Engineering College and Sri Venkateswara College of Engineering from 2015 to 2018. He then moved to Taiwan, where he served as a postdoctoral researcher at National Chung Hsing University, Taichung, from 2018 to 2021 and at National Cheng Kung University, Tainan, from 2021 to 2024. His current research interests include quantum dot semiconductors, solar cells, and thin film & chalcogenide perovskite solar cells.



Research—Chemistry

Number of Journal publications: 92

Average Impact Factor: 5.03

Highest Impact Factor Journal published: 18.5

Highest impact factor papers:

Sonali Roy, Priyamjeet Deka, Raktim Gogoi, Mrityunjoy Dey, Kiran Mayawad, Bikash K. Das, **Kasibhatta K. R. Datta**, and Kalyan Raidongia, Fabrication of Robust Forward Osmosis Membrane by Assembling FeOx-Cly Nanoparticles, Advanced Functional Materials, 2024, 2414087. (Impact Factor = 18.5)

Gomathi Sivakumar, Anashwara Babu, Bholanath Ghanti, J. Swathi, Silambarasan. R, Venkatramaiah Nutalapati, Susnata Banerjee, and **Samarendra Maji**, Dual Fluorometric and Colorimetric Chemosensor Based on Poly(Arylene Ether Nitrile)s Functionalized Zn(II)Porphyrins for Selective Detection of Cyanide, Advanced Functional Materials, 2024, 2419620. (Impact Factor = 18.5)

Nature indexed publications : (5)

Sonali Roy, Priyamjeet Deka, Raktim Gogoi, Mrityunjoy Dey, Kiran Mayawad, Bikash K. Das, **Kasibhatta K. R. Datta**, and Kalyan Raidongia, Fabrication of Robust Forward Osmosis Membrane by Assembling FeOx-Cly Nanoparticles, Advanced Functional Materials, 2024, 2414087. (Impact Factor = 18.5)

Gomathi Sivakumar, Anashwara Babu, Bholanath Ghanti, J. Swathi, Silambarasan. R, Venkatramaiah Nutalapati, Susnata Banerjee, and **Samarendra Maji**, Dual Fluorometric and Colorimetric Chemosensor Based on Poly(Arylene Ether Nitrile)s Functionalized Zn(II)Porphyrins for Selective Detection of Cyanide, Advanced Functional Materials, 2024, 2419620. (Impact Factor = 18.5)

No of Patents published: 3

Patent Title: An Antibiofilm Composition and a Process for its Preparation

Patent Authors: Subramaniyam Sivagnanam, Abhijit Saha and Priyadip Das

Published date: 18.10.2024

Patent Title: A Superhydrophobic Composite Membrane and a Process for its Fabrication

Patent Authors: Swarnamayee Behera and Kasibhatta K. R. Datta

Published date: 13.12.2024

Patent Title: Composite Material Consisting of Dithiocarbamate and Nano zero valent iron

Patent Authors: Kasibhatta K. R. Datta

Published date: 13.12.2024

Research—Chemistry

Research Projects:

Total number of new grants: 3

Total lay out of the new grants: 16.02 lakhs INR

SI. No.	Name of the PI	Title of the project	Agency/ Sanction File No.	Grant Amount (in lakhs)	Period of support
1.	Dr. P. Gopinath	Isolation and characterization of nimbin and salannin from neem seed kernels and nimbolide from neem leaf.	Nisarga Biotech Pvt. Ltd., Maharashtra	5.19	24.12.24
2	Dr. Anjan Das	Applying asymmetric photocatalysis for the synthesis of enantiopure 2-substituted Nheterocycles	Newton International Fellowships Alumni 2024 ,The Royal Soci- ety (Ref. No.AL\24100051 -)	£6,000.00	01.07. 24 - 30.06 25
3	Dr. Abhilash .Pullanchiyodan	Tuning the interlayer spacing of MXene through heteroatom doping and carbon dot intercalation as cathode in zinc ion hybrid supercapacitor	Newton International Fellowships Alumni 2024, The Royal Soci- ety (Ref. No. AL\24100046-)	£6,000.00	01.07. 24 - 30.06. 25

No. of Ph.Ds awarded: 10

S. No.	Name of the candi- date	Reg. No.	Area of Research	Date of the Award	Supervisor	Photo
1.	Dr. N. Mariyammal	RC2033003011008	Electrochemical Sensor	19.12.24	Dr. P. Pan- neerselvam	
2.	Dr. S.Sankeetha	RC2133003011035	Photocatalysts	19.12.24	Dr. R. Arulmozhi	
3.	Ms. Richu Bagya Varsa S	RA2133003011007	Pharmaceutical Chemistry	16.12.24	Dr. Palash Sanphui	

S. No.	Name of the candi- date	Reg. No.	Area of Re- search	Date of the Award	Supervisor	Photo
4.	Dr. Desai Prashant Hanamantrao	RC2133003011020	Energy Storage Systems	12.12.24	Dr. V. Kumaran	
5.	Dr. Kumarasamy A	RA2133003011044	Perovskite Solar Cells	14.11.24	Dr. R. Arulmozhi	
6.	Dr. A. Kumaresan	RC2133003011031	Environment and Energy	13.11.24	Dr. E. Sundaravadivel	
7.	Dr. A Arun	RA2133003011020	Environment and Energy	13.11.24	Dr. E. Sundaravadivel	
8.	Dr.N.Vanitha	RC2033003011009	Geopolymers	8.11.24	Dr.R.Jeyalakshmi	
9.	Dr. K. Kala	RA1733003011010	Catalysis	29.10.24	Dr. T. Pushpa Malini	
10.	Vidya S Menon	RA1933003011016	Perovskite Solar Cells	04.10.24	Dr. K. Ananthana- rayanan	

Research—Mathematics

Number of Journal publications: 67

Average Impact Factor: 2.15

Highest Impact Factor Journal published: 6.0

Highest impact factor paper:

P. Deepalakshmi, A. Darvesh, Hakim AL Garalleh, Manuel Sánchez-Chero, G. Shankar, **E.P. Siva**, Integrate mathematical modeling for heat dynamics in two-phase casson fluid flow through renal tubes with variable wall properties, Ain Shams Engineering Journal, 16(1), 2025, 103183.

(Impact Factor = 6.0)

Top 5 publications:

P. Deepalakshmi, A. Darvesh, Hakim AL Garalleh, Manuel Sánchez-Chero, G. Shankar, **E.P. Siva,** Integrate mathematical modeling for heat dynamics in two-phase casson fluid flow through renal tubes with variable wall properties, Ain Shams Engineering Journal, 16(1), 2025, 103183. (Impact Factor = 6.0)

Shagolshem, S., **Bira, B.** and Nagaraja, K.V. Analysis of soliton wave structure for coupled Higgs equation via Lie symmetry, Paul Painlevé approach and the Unified method. Nonlinear Dyn (2024). (Impact Factor = 5.2)

Jackson, J., **Perumal, R**. A robust image encryption technique based on an improved fractional order chaotic map. *Nonlinear Dyn* (2024). (Impact Factor = 5.2)

Divya, G., **Athithan, S.,** Kumar, P, Mayavel, P., Women Empowerment Status in India: Mathematical Modelling and Optimal Control Approach. Nonlinear Dyn (2024). (Impact Factor = 4.1)

B Jaismitha, **J Sasikumar**, Uncertainty analysis of MHD oscillatory flow of ternary nanofluids through a diverging channel: a comparative study of nanofluid composites, International Journal of Numerical Methods for Heat & Fluid Flow, 35(1), 2024. (Impact Factor = 4.0)

No of Patents: 6 (Published: 5, Granted: 1)

Granted:

S. Balaji, S. Sujatha, Veena K, Maalini D, N. Hemavathy, **A. Anuradha** and K. Kalaiselvi, Al Based Visitor Identification using Image Processing, Published and Granted, Design Number: 428703 – 001; Published Date: 29/10/2024

Published:

S. Satheesh Kumar, V. Muthukumaran, Radhika E.K, Arpana G K, A. George Maria Selvam, Intelligent Signal Network for Real-Time Traffic Management and Safety Monitoring with IoT and Al Integration, Patent No: 202441097144, 09-12-2024.

Karthick S A, Finite-time based fault-tolerant control for half-car active suspension system with DoS attack: An event-triggered approach, No.202441074040, 04-10-2024

N. Balaji, V. J. Suresh, N. Balaraman, Dr. I. Lakshmi, G. Vijendar Reddy, P. Swetha, G. Kiranmai, N. Venkatesh Kumar, R. Santhoshkumar, Advanced technique for Investigating Residential Electrical Power Consumption via Time Series Analysis, No: 202441084487, 15-11-2024

Nidhiba Mahendrasinh Parmar, **N.Balaji**, Chintan Nalin, Pramod Kumar Panda, Vishnu Kumar Mishra, Megha Mishra, Tushar Dinkar Kadam, Al based crime scene analysing device, No: 430639-001, 15-11-2024.

J. Uma, R. Balaanandhan, S. Sangeetha, Design system and Method for Determining Fixed Points and Common Fixed Points (CFP) in Ultrametric Spaces using p-adic Contractions, No: 202441072280, 04-10-2024.

Book Chapters: 2

Senthamarai R, Spread of Pulmonary Tuberculosis: A Mathematical Studies Using a System of Nonlinear ODE in the book "Research Trends in Mathematics and Statistics (Volume - 29)", Nov, 2024, ISBN 978-93-6135-656-8.

Senthamarai R, Control of Pulmonary Tuberculosis Spread: A Mathematical Model using a System of Nonlinear ODE in the book "Research Trends in Mathematics and Statistics (Volume - 29)", Nov, 2024, ISBN 978-93-6135-656-8.

No. of Ph.Ds awarded: 14

S.No	Name	REG NO	Thesis Title	Date Of Award	Supervisor	Photo
1	Dr. B. Amutha	RA2033001011008	Algebra	03-10-24	Dr. R. Perumal	(a)(b)
2	Mrs. K. Vidhya	RA2033001011013	Fuzzy Optimization	08.10.24	Dr. A.Saraswathi	
3	Mrs. P. Yuvashri	RA2133001011003	Fuzzy Optimization	09.10.24	Dr. A. Saraswathi	
4	Ms. N. Nithya	RC2133001011001	Fluid Dynamics	23.10.24	Dr. B.Vennila	
5	Mr. E. Muthu Meena Laksh- manan	RC2033001011003	Archime dean Fields	28.10.24	Dr. K. Suja	
6	Mr. Senthil Ku- mar P	RC2133001011020	Fixed Point Theory	15.11.24	Dr. G. Arul Joseph	
7.	Mr. E. RAGULKU- MAR	RA1933001011006	Fluid Dynamics	20-11-24	Dr. P. Sambath	

8	Mr. K. Siva	RA1933001011016	Mathematical Modelling	14.11.24	Dr. S. Athithan	
9	Mr. M. Sivashankar	RA2133001011035		29.11.24	Dr. S. Sabarina- than	
10	Ms. K. Vijaya Lakshmi	RA2033001011004	Graph Theory	09.12.24	Dr. N. Parvathi	
11	Ms. Hemalatha K	RA2133001011001	Elastodynamics	12.12.24	Dr. Santosh Ku- mar	
12	Ms. A. Akshaya	RA2133001011045	Elastodynamics	13.12.24	Dr. Santosh Ku- mar	
13	Mr. V. Karthick	RA2133001011056	Queueing Models	20.12.24	Dr. V. Suvitha	
14	Mr. M. Aakash	RA2133001011041	Mathematical Modelling	27.12.24	Supervisor: Dr. C. Gunasundari Joint Supervisor: Dr. S. Sabarina- than	
15	Mr. Raghul Gandhi V	RA2133036011001	Statistics	15.11.24	Dr. M. Bagavan- das	

Research—Physics and Nanotechnology

Number of Journal publications: 106

Average Impact Factor : 5.5

Highest Impact Factor Journal published : 15.8

Highest impact factor papers:

Subhajit Sarkar and Yonatan Dubi, Time Crystals from Single-Molecule Magnet Arrays, ACS Nano, https://doi.org/10.1021/acsnano.4c05817 (Impact Factor = 15.8)

Nature Indexed journal publications (4):

Sougata Mallick, Yanis Sassi, Nicholas Figueiredo Prestes, Sachin Krishnia, Fernando Gallego, Luis M. Vicente Arche, Thibaud Denneulin, Sophie Collin, Karim Bouzehouane, André Thiaville, Rafal E Dunin-Borkowski, Vincent Jeudy, Albert Fert, Nicolas Reyren, Vincent Cros, Driving skyrmions in flow regime in synthetic ferrimagnets, Nature Communications, https://doi.org/10.1038/s41467-024-52210-y (Impact Factor = 14.7)

Subhajit Sarkar and Yonatan Dubi, Time Crystals from Single-Molecule Magnet Arrays, ACS Nano, https://doi.org/10.1021/acsnano.4c05817 (Impact Factor = 14.7)

V. Vijay, J. Karuna, **J. Archana**, M. Navaneethan, Phonon-charge carrier dynamics via grain-boundary phase in equilibrium reaction of higher manganese silicide/CNF hybrid composites, Applied Physics Letters, https://doi.org/10.1063/5.0233662 (Impact Factor = 3.5)

Peng-Hu Du, **Yoshiyuki Kawazoe**, Qiang Sun, Unconventional Thermal Rectification in Assemblies of Supertetrahedral T3-Type Sn4In6Se20 Clusters, Nano Letters, https://doi.org/10.1021/acs.nanolett.4c02977 (Impact Factor = 10.8)

Patents: Applied -1

Patent application no.	202441073303
Date	27.09.2024
Title	Method for synthesis of porous argyrodite for thermoelectric energy conversion and solid-state battery storage applications
Inventors	Nivin Thulasibai Sasidharan Karthigeyan Annamalai Navaneethan Mani Karvannan Elamurugan Vijay Vaiyapuri

Research Projects:

Total number of new grants: 1

Total lay out of the new grants: 3 lakhs INR

S. No	Name of the PI	Title of the project	Agency/scheme	Grant amount (Lakhs)	Period of support
1	Dr. Rohit Dhir	Conference on Cosmology Astrophysics and Particle Physics (CCAPP-2025)	ANRF- Assistance to Professional Bodies & Seminar / Sympo- sia Scheme	3	2025

Number of Ph.Ds completed: 18

S. No	Name	Reg. No	Area of Research	Date	Supervisor	
1	DR. R. ROHITH KUMAR	RA1813014011009	PEROVSKITE SOLAR CELLS	01.10.24	Dr. K. Anantha- narayanan	
2	DR. K. PRAKASH	RA1933002011010	SUPERCAPAC- ITOR ELECRODES	01.10.24	Dr. S. Harish	
3	DR. SHANMUKA SUNDARI R	RA1833002011021	THERMOE- LECTRIC MA- TERIALS	04.10.24	Dr. S. Pon- nusamy	
4	DR. R. SANTHOSH	RA1933002011011	THERMOE- LECTRIC MA- TERIALS	07.10.24	Dr. S. Pon- nusamy	

Number of Ph.Ds completed: 18

S. No	Name	Reg. No	Area of Research	Date	Supervisor	
5	DR. SURESH PRASANNA C	RC2033002011003	THERMOELECTRIC MATERIALS	03.10.24	Dr. M. Navanee- than	
6	DR. SIMON SAJAN JOHN	RC2033002011010	THERMOELECTRIC MATERIALS	07.10.24	Dr. M. Navanee- than	
7	DR. C ARCHANA	RC2033002011016	THERMOELECTRIC MATERIALS	10.10.24	Dr. S. Harish	F
8	DR. M. AROCKIA JEN- ISHA	RC2033002011006	THERMOELECTRIC MATERIALS	09.10.24	Dr. M. Navaneethan	
9	DR. K. SATHIYA- MOORTHY	RC2033002011002	PHOTOCATALYSTS	10.10.24	Dr. S. Harish	
10	DR. ABHISHEK SINGH SINDHU	RA1733002011023	PHOTOCATALYSTS	10.10.24	Dr. E. Senthil Kumar	1
11	DR. R. SHARMILADEVI	RA1933002011033	CANCER DIAGNOSIS AND TREATMENT	06.11.24	Dr. S. Anandha- kumar	

S. No	Name	Reg. No	Area of Research	Date	Supervisor
12	Dr. Vibavakumar S	RA1933002011038	DYE-SENSITIZED SOLAR CELLS	11.11.24	Dr. K. D. Ni- sha
13	Dr. Aleena Rose	RA1713014011008	PSEUDOCAPACI- TOR ELECTRODES	13.11.24	Dr.T. Vijaya- kumar
14	Dr. R. Roshan Chan- drapal	RC2133002011017	ENVIRONMENTAL REMEDIATION	13.11.24	Dr. G. Bakiya- raj
15	Dr. Vangari Govind Ambadas	RA1933028011002	GAS SENSING	14.11.24	Dr.M. Krishna Mohan
16	Dr. Mr. S. Vive- kananthan	7691310006	WOUND HEALING	13.11.24	Prof. D. John Thiruvadigal
17	Dr. Krishna Moorthy P	RA1833002011024	GROWTH OF MOS2 2D MATERIAL	13.12.24	Dr. S. Chandramohan
18	Dr. Siva M	RC2113014011002	PROTON EX- CHANGE POLYMER ELECTROLYTE MEMBRANES	16.12.24	Dr. D. Parade- si

Faculty Corner

It's Okay to Break Some Rules

As a chemistry teacher, I always like introducing the field of organic chemistry to my students with the Friedrich Wöhler's synthesis of urea. It is this ground-breaking discovery that shook the foundations of the theory of 'Vitalism' and

made chemists believe that organic materials can indeed be synthesized in a lab, and it doesn't require a 'Vital force' preexisting in living organisms to synthesize a molecule of biological or organic origin.1 In 1828, Wöhler made a sensational discovery where he first synthesized urea, an organic compound generally produced by higher living organisms as a waste product from a mixture of inorganic compounds (inorganic matter), i.e., silver cyanate and ammonium chloride (Fig. 1). Wöhler's serendipitous discovery broke the age-old rule called the 'vital force theory', a belief that existed for several centuries and was supported even by one of the greatest chemists of the 18th century, Jöns Jacob Berzelius (Wöhler's doctoral advisor).

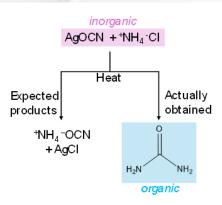


Figure 1: Wöhlers urea synthesis (1828)

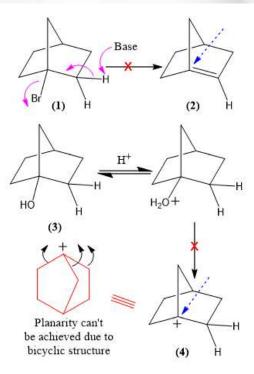


Figure 2: Bredt's rule (1924)

Let me explain to you with yet another simple example, how some exciting breakthroughs continue to emerge in the modern era of organic chemistry and how they can provide valuable solutions to some century old unsolved puzzles. As a part of the organic chemistry curriculum, we teach a number of reaction mechanisms, postulates and rules. A common question that is often asked at undergrad or postgrad level is to explain the feasibility of the following elimination reaction (**Fig. 2**, synthesis of compound 2). The answer that we know so far from organic chemistry textbooks is that it is difficult to introduce a double bond at a bridgehead carbon atom (**Fig. 2**, blue arrows). This is in accordance with the well-established Bredt's rule, which states the impossibility of formation of double bonds or carbocation (**Fig. 2**, intermediate 4) at the bridgehead position in bicyclic systems, which is simply a consequence of the high strain experienced by a planar bridgehead carbon atom (**Fig. 2**).²

Despite the existence of this famous rule, organic chemists have continuously endeavored to synthesize anti-Bredt olefins (ABOs). Most studies although settled the fact that it is not impossible to synthesize ABOs. However, they also suggest that ABOs are highly unstable and decompose immediately or lead to undesired rearranged by-products. After a long hundred years after Julius Bredt established this rule, writing in the Science magazine, Garg and co-workers (a research team from UCLA) report an interesting solution to get access to ABOs.3

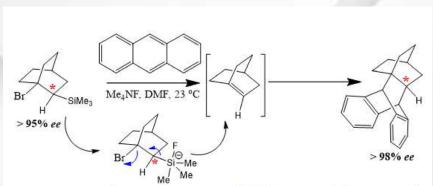


Figure 3: A synthetic route to ABOs (2024). Me, methyl; DMF, N,N'-dimethylformamide; ee, enantiomeric excess. Red * marks the chiral carbon atom.

To achieve this goal, they made use of the Ko-bayashi-type elimination chemistry, where they treated bicyclic silyl (pseudo)halide precursor molecules with a fluoride source (e.g., tetramethyllammonium fluoride). In an astute synthetic design strategy, the reaction was carried out in the presence of a suitable trapping agent (e.g., anthracene), which can undergo a cycloaddition reaction with the in situ generated ABO systems (Fig. 3). The same strategy

could be applied to generate ABOs from a wide variety of bicyclic systems, which can be trapped utilizing a wide variety of cycloaddition reactions. One of the key features of this reaction is that the chirality of the precursor is transmitted in the cycloadduct, and this highlights the great potential of this approach in obtaining complex natural products of pharmaceutical value. This 'break'-through not only solves a century-old research problem but also puts us in a position to rewrite our textbooks. It inspires us to tackle challenging problems in chemistry and to think out of the box. We envision, such out of the box thoughts can pave way for new ground-breaking discovery, whereby we would be able to address the pressing needs of our society and humanity as a whole. Nevertheless, for students and all of us, before we dream of breaking such well-established rules, we must remember the words of Picasso, "Learn the rules like a pro, so you can break them like an artist".

References:

- 1) C. Wentrup, Origins of Organic Chemistry and Organic Synthesis, Eur. J. Org. Chem. 2022, e202101492.
- 2) J. Bredt, Über sterische Hinderung in Brückenringen (Bredtsche Regel) und über die meso-trans-Stellung in kondensierten Ringsystemen des Hexamethylens. *Justus Liebigs Ann. Chem.* **1924**, 437, 1–13.
- 3) L. McDermott, Z. G. Walters *et al.*, A solution to the anti-Bredt olefin synthesis problem. *Science* **2024**, 386, eadq3519.



Ву

Dr. Rahul Dev Mukhopadhyay
Research Assistant Professor,
Department of Chemistry,
Faculty of Engineering and Technology,
SRMIST, Kattankulathur.

Alumni Connect





During his talk Dr. K. Suresh Babu explained about various activities in the chemical industry

Alumni Connect





During his talk Dr. Haridas Parse explained about various opportunities for pursuing Ph.D. in India and abroad.

Notifications & Announcements

8th International Conference on Nanoscience and Nanotechnology



(ICONN-2025)

March 24 - 26, 2025

Organized by

Department of Physics and Nanotechnology

SRM Institute of Science & Technology, Kattankulathur - 603 203, Chennai, Tamil Nadu, India

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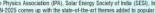






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ence organized by the Department of Physics and Nanotechnology, SRM Institute of Science and Technology ICONN is a biennial International Confer across the word, working in the areas of Nanoscience and Randechnology. Incepted in 2010, the conference has become an important event in the calendar for the scientists, academicians, researchers, industrialists and students to showcase their latest and significant findings. Previous editions (GORN-2013, ICONN-2017, ICONN-2018, ICONN-2017, ICONN-2017,



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Refer the ICONN-2025 website for detailed information

- Low-dimensional materials 2D materials
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- Complex and Meta-Nanophotonics: Classical to
- Quantum Nanobiotechnology, Nanotoxicology and Nanomedicine
- Manipulation and Characterization of Materials at
- Industrial Nanotechnology: Products and Commercialization
- Quantum Information Processing
- Green Nanotechnology and Water Treatment Photonic & Plasmonic Nanomaterials Metamaterials and Metasurfaces

- Additive Manufacturing & 3D Printing

Journal Publications

Manuscripts submitted will be peer-reviewed and accepted papers will be published as a special issue in the

Emergent Materials (IF-4.8) - Springer

- Journal of Materials Science: Materials in Electronics (IF-2.8) - Springer
- Journal of Experimental Nanoscience (IF-2.6, Open Access) - Taylor &

All the accepted abstracts will be published in ICONN-2025 abstracts volume with ISBN number

*Other journal details will be updated soon.

ICONN-2025 declares recognition in the categories listed helow:

- SRM-ICONN Award of excellence in Nanoscience and Nanotechnology
- SRM-ICONN Innovation Award
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- . SRM-ICONN Young Researcher Award
- SRM-ICONN Best Oral and Poster Awards

Important Dates

First announcement call for abstracts: November 11, 2024 Abstract submission deadline: December 10, 2024 Acceptance notification: December 12, 2024 Registration deadline (Early bird): December 20, 2024 Final registration deadline: February 28, 2025

Conference Secretariat ICONN-2025 mail: iconn.2025@srmist.edu.in bsite: https://www.srmist.edu.in/events/ico







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Indian students (PG & Ph.D students)	Rs. 2500	As. 3500	Rs. 4500	Rs. 6000
Indian postdocs	Rs. 3500	Rs. 4500	Rs. 6000	Rs. 8000
Indian Faculty/Scientist	Rs. 4000	Rs. 5000	Rs. 7000	As. 10000
Industry (India)	Rs 7000	Rs. 10000	Rs. 15000	Rs. 20000
Overseas students/postdocs	USO 100	USO 150	USD 200	USD 250
Overseas Faculty/Scientists	USD 158	USD 200	USD 250	USD 300
Overseas Industry	USD 250	USD 300	USD 350	USD 500

*The registration fee includes conference participation, conference kit, lunch and dinner

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