



SRM

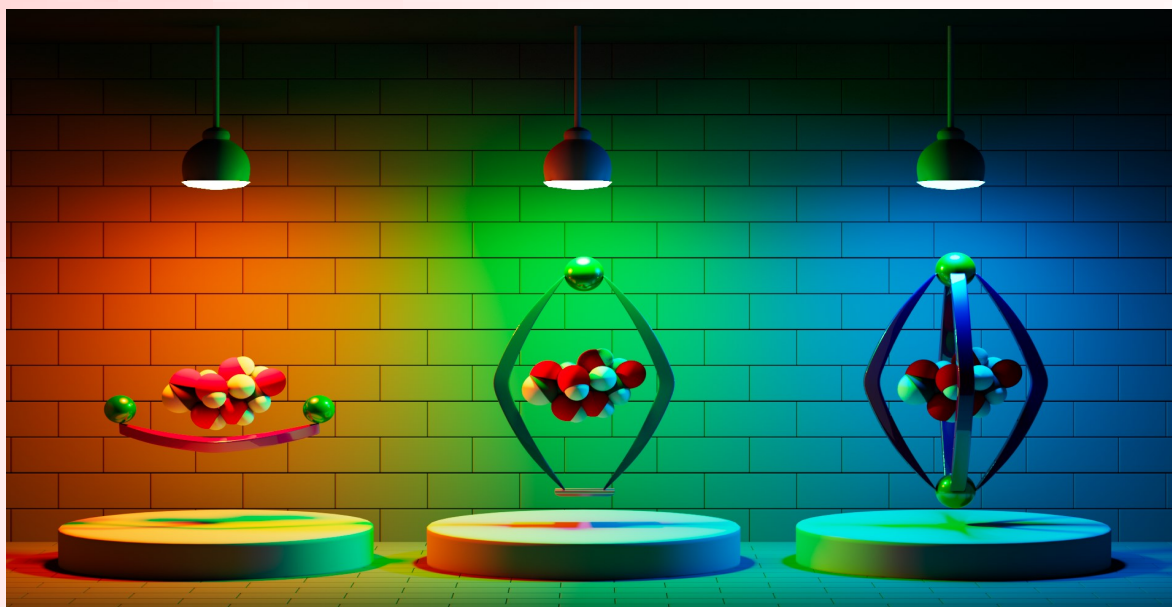
INSTITUTE OF SCIENCE & TECHNOLOGY
Deemed to be University u/s 3 of UGC Act, 1956

Horizon

Quarterly Newsletter

Volume 2, Issue 3

(July to September 2023)



School of Basic Sciences

**College of Engineering and Technology
SRM Institute of Science and Technology
Kattankulathur - 603 203, Chengalpattu District
Tamil Nadu, India**



A++



Category 1
with 12B Status



(2023)
Ranked 18th University



(2024) World Ranking
one among 45 Indian Universities



(2023) World Ranking
one among 75 Indian Universities



VERY GOOD
QS 4 Star Rated Globally



(2022) World Ranking
one among 14 Indian Universities

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 very happy to see that the fourth issue of the newsletter “Horizon” is being released. I take this opportunity to thank the entire faculty and the coordinators of various assignments for their dedication and hard work in preparing the necessary documents for the NAAC accreditation of the SRM Institute of Science and Technology.

I extend my hearty thanks, appreciations and congratulations to the faculty and scholars for their accomplishments in publishing the high impact journals, publishing patents and securing the funds for carrying out research during the period July 2023 to September 2023. I take this opportunity to welcome the newly recruited faculty of research track to the school of Basic Sciences. I certainly feel that the new faculty will take the onus in strengthening the research ecosystem of the departments.

My hearty congratulations to the editorial team of the newsletter “Horizon”.

Cover page theme: Recognition of carbohydrates which play vital roles in cellular and pathological processes, using metal-ligand assemblies and highlight the challenges and future directions in the field

(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**

It's our great pleasure to summarize our teaching and research accomplishments for the **Horizon** (volume 2, issue 3).

We are overwhelmed to share that our Prof. Dr. B. Neppolian (Dean Research) has received a prestigious SPARC project for a total outlay of Rs. 74.92 Lakhs during 2023-2025. It is also a great pleasure to share that four of our young faculty members (Dr. S. Karthikeyan, Dr. Abhijit Saha, Dr. Dipankar Das and Dr. Rahul Narayanan) have received SERB funded SRG projects with a total of Rs. 1.05 Crores during 2023-2025. In addition, Dr. M. Prakash has received Quantum computing-QCAL project Sanctioned by MeitY to a tune of Rs. 26.63 Lakhs, for the duration of 2023-2025.

During the campus placement, two of our M.Sc. Chemistry students got placed in Zifo R&D Solutions. Moreover four PhD s were awarded during this period.

Our Research Scholar Ms. G. Abigail Jennifer received "Mitacs Globalink Research Award" for a tune of \$6000 which will allow her to visit University of Manitoba, Canada for 6 months as an intern. Another Research scholar Mr. J. Premkumar has received Taiwan's NSTC, International Internship Pilot program, for a period of three months with a fellowship 90,000 NTD for his stay.

Our Department is actively involved in inviting various eminent scientists from India and abroad through Chemistry association Event. Up to 9 technical talks were organized, where Master students actively involved and benefited the most.

Our faculty member Dr. Rahul Narayanan organized a two day Astons Workshop on Mass spectrometry. This enabled the participants to learn the basic Instrumentation and applications. They also got a great opportunity to visit Prof. Pradeep's Laboratory at IIT- Madras.

Our active involvement in research lead to 81 high impact publications with an average impact factor of 5.8, with 6 nature indexed journals.

Message from the HoD, Mathematics



Dr. V. Subburayan

Associate Professor and Head In-Charge
Department of Mathematics
College of Engineering and Technology
SRM Institute of Science and Technology
Kattankulathur 603 203

The department of mathematics is elated in the release of the third Issue (Volume II) of our newsletter “Horizon”. It is indeed a proud moment to share the achievements of all our students and faculties. We are happy to announce the publication of the research articles presented in the “3rd International Conference on Mathematical Techniques and Applications (e-ICMTA-2022)” in

September 2023 as Issue 1, Volume 2852, by AIP Conference Proceedings. The department congratulates all rank performers for the academic year 2022-23 and to all the placement.

Congratulations to all the students who got recruited. Some of our research scholars have been offered Assistant Professor positions across the country. Students visit to Fluid dynamics laboratory at Department of Aerospace Engineering, SRMIST, was a validating initiative to expand the boundaries of research across various disciplines. A hearty welcome to all newly joined faculty members. I express my sincere gratitude to the members of the department for their dedication and contribution.

Message from the HoD, Physics & Nanotechnology



Dr. A. Karthigeyan

Professor and Head In-Charge
Department of Physics
and Nanotechnology
College of Engineering and Technology
SRM Institute of Science and Technology

I would like to start by welcoming newly joined faculty members Dr Alladi Hemanth Kumar, Dr. Ashutosh Kumar and Dr. Vijith Kalathingal and wishing them success. Our appreciations are due to the faculty members who have attracted external fundings and published in Nature indexed journals as well as journals with impact factor greater than 10 in this quarter. It is important to give special appreciation to Snehidha Irudayaraj, student from II MSc-physics for participating in different events with a lot of effort and enthusiasm bringing proud moments to the department. Let us keep up our spirit high and achieve the set target for this academic year.

Editorial Team

Dr. D. John Thiruvadigal
Dean Sciences

Prof. M. Arthanareeswari
Head,
Department of Chemistry

Prof. V. Subburayan
Head,
Department of Mathematics

Prof. A. Karthigeyan
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. T.V. Lakshmi Kumar
Research Associate Professor
Department of Physics
and Nanotechnology

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 2, Issue 3 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 three months (July 2023 – September 2023).

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.sciences.ktr@srmist.edu.in

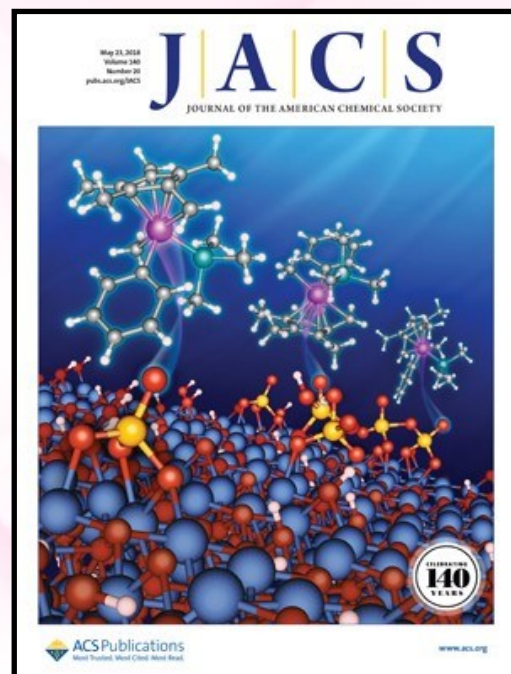
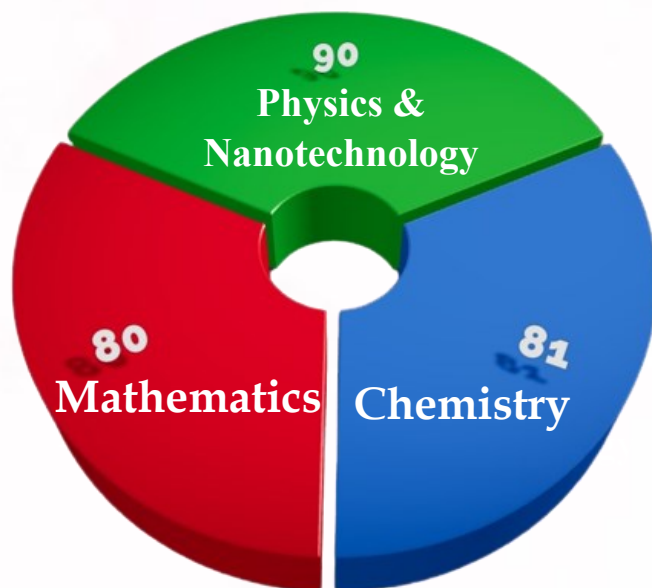
Please enjoy reading our newsletter !!

Highlights

School of Basic Sciences

Key Metrics	April to June	July to September
Total No. of publications (SCI/Scopus)	183	251
Highest Impact Factor Journal Publication	17.9	15.0
No of projects sanctioned	1	10
Total grant outlay	45 Lakhs	349.22 Lakhs
No of patents filed / granted	3	1
No of book chapters	7	6
MoUs (International / National)	-	2
Number of Ph.D's completed	20	30

Total number of research publications:
(July to September 2023)



(Impact factor : 15.0)

Academics - Chemistry

QS world ranking **501 - 550** by subject
Asian university ranking **351 - 400**, 9th position among Indian universities and
2nd under the private institutes.

Awards / recognitions / honors received: Student Achievements

The following students got selected in Zifo RnD Solutions.



Kavinkumar S
(RA2232008010017), II
M.Sc.Chemistry



Harish Kumar L
(RA2232008010035) II
M.Sc.Chemistry

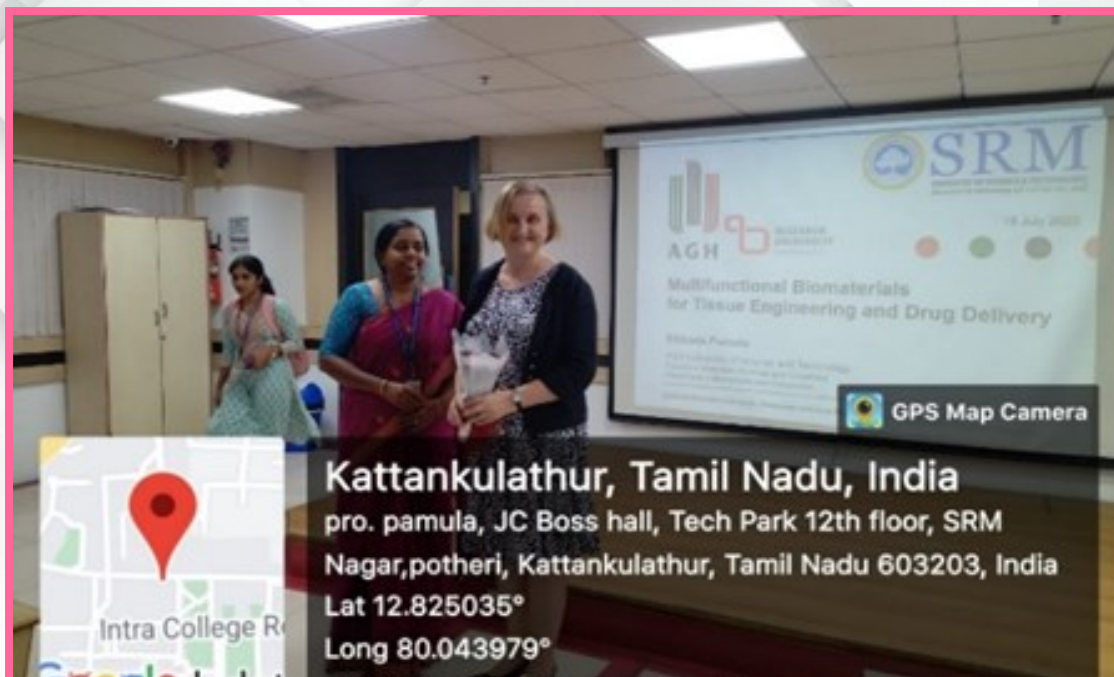


Mr. J. Premkumar (Reg. No. RC2133003011022) Research Scholar, 2021 batch received International Internship Pilot program to Taiwan under Dr Yuan-Yao Li at Department of Chemical Engineering, National Chung Cheng University, Taiwan. As the Internship is scheduled for the duration on 1.9.2023 – 30.11.2023 (3 months).

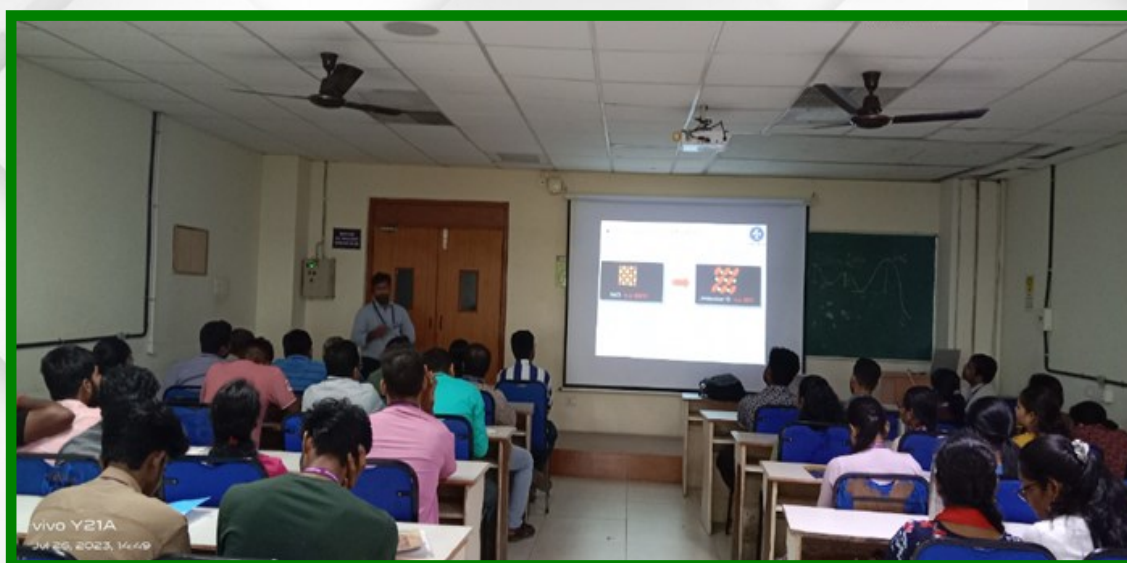
CHEMISTRY ASSOCIATION EVENT`



Department of Chemistry, SRM IST, Kattankulathur campus organized a lecture on "**Biomimetic Processes Utilizing Functional Molecular Switches**" under the ``CHEMISTRY ASSOCIATION EVENT`` on 12th July 2023. The speaker of the event is **Dr. Susnata Pramanik**, Assistant Professor, Department of Chemistry, SRMIST



Department of Chemistry, SRM IST, Kattankulathur campus organized a lecture on **Multifunctional biomaterials for tissue engineering and drug delivery** and **"Calcium phosphate bone implant materials"** under the "CHEMISTRY ASSOCIATION EVENT" on 19th July 2023. The speakers of the event are Professor **Elżbieta Pamuła**, Faculty of Materials Science and Ceramics, AGH University of Science and Technology (AGH), Kraków, Poland and **Professor Aneta Zima**, Faculty of Materials Science and Ceramics, AGH University of Science and Technology, Kraków, Poland.



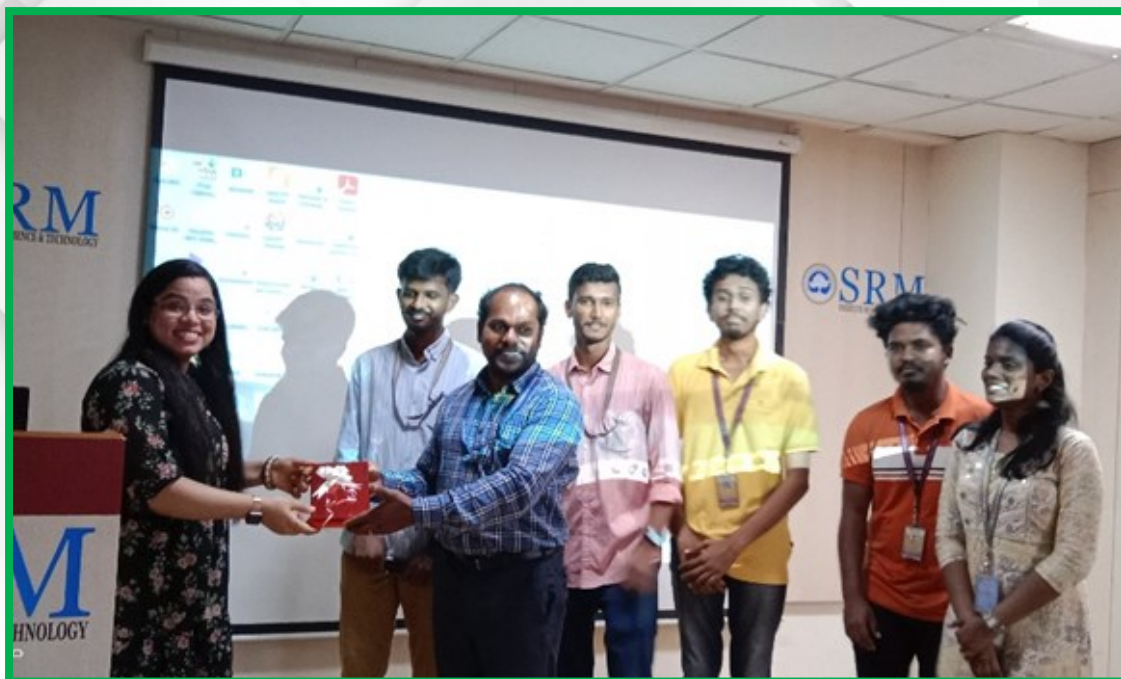
Department of Chemistry, SRM IST, Kattankulathur campus organized a lecture on " **Surfactants in & as Ionic Liquids** " under the "CHEMISTRY ASSOCIATION EVENT" on 26th July 2023. The speaker of the event is **Dr. Srinivasarao Kancharla**, Assistant Professor, Department of Chemistry, SRMIST.



Department of Chemistry, SRM IST, Kattankulathur campus organized a lecture on **"Energy Conversion and Storage through the Chemical Route: State of the art"** under the ``CHEMISTRY ASSOCIATION EVENT`` on 4th August 2023. The speaker of the event is **Dr. Babasaheb R Sankapal**, Professor and Former Head, Department of Physics, Visvesvaraya National Institute of Technology, (VNIT), Nagpur



Department of Chemistry, SRM IST, Kattankulathur campus organized a lecture on **"Integrated layered oxides as cathode materials for Li-ion batteries"** under the ``CHEMISTRY ASSOCIATION EVENT`` on 9th August 2023. The speaker of the event is **Dr. Prasant Kumar Nayak**, Research Assistant Professor, Department of Chemistry, SRM Institute of Science and Technology, Kattankulathur



Department of Chemistry, SRM IST, Kattankulathur campus organized a guest lecture on ``**Nanomaterials for Printed Electronics**`` under the ``CHEMISTRY ASSOCIATION EVENT`` on 23rd August 2023. The speaker of the event is **Dr. Priyanka Ganguly**, Lecturer (Assistant Professor), Chemical and Pharmaceutical Sciences, London Metropolitan University, London, UK



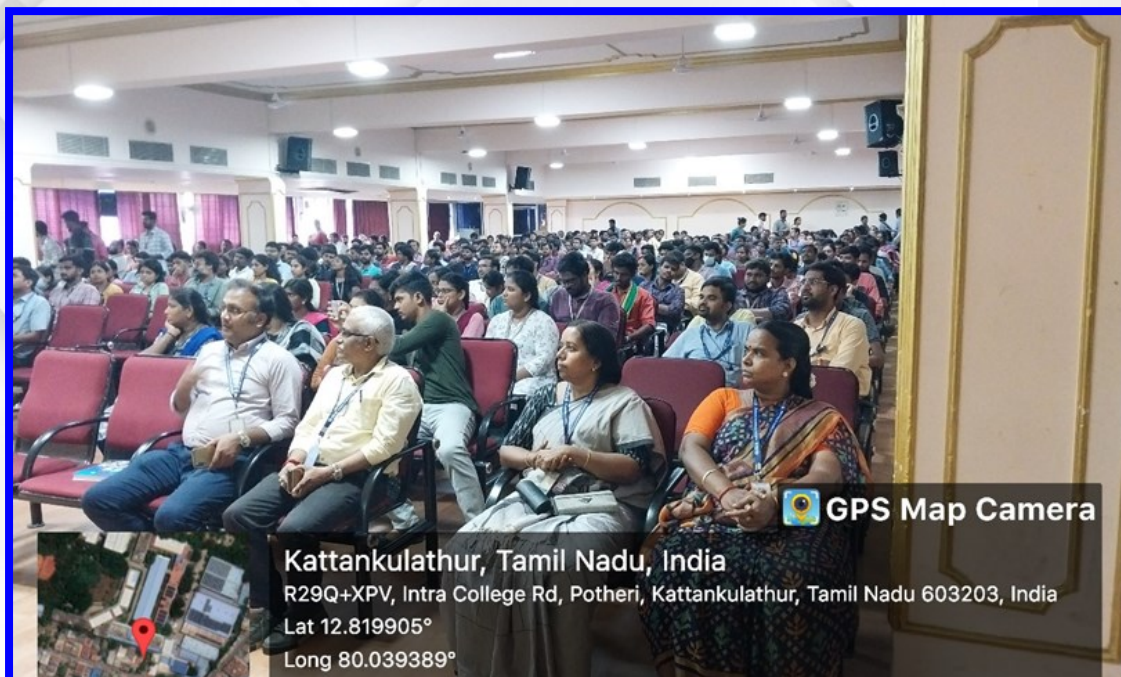
Department of Chemistry, SRM IST, Kattankulathur campus organized a Aston's Workshop – 2023 On Mass Spectrometry, Instrumentation and Applications 25-26th August – 2023. Aston's workshop is a two-day interactive and hands-on program focusing on mass spectrometry, instrumentation and applications. About mass spectrometry – Mass spectrometry is a sophisticated analytical tool used for sample analysis at very low concentration. This highly sensitive technique gives both qualitative and quantitative information about a sample.



Department of Chemistry, SRM IST, Kattankulathur campus organized a lecture on **"10+ years of chasing better efficiency in H₂ production through water-splitting electrolysis!"** under the "CHEMISTRY ASSOCIATION EVENT" on 30th August 2023. The speaker of the event is **Dr. Anantharaj Sengeni**, Research Assistant Professor, Department of Chemistry, SRM Institute of Science and Technology, Kattankulathur 603203, Tamil Nadu, India.



Department of Chemistry, SRM IST, Kattankulathur campus organized a lecture on **"Innovation Management"** under the "CHEMISTRY ASSOCIATION EVENT" on 14th September 2023. The speaker of the event is **Dr. Immanuel Selvaraj** Founder Director, i - EL Technologies, Bangalore, and Karnataka, India



Awareness campaign on Prevention of Sexual Harassment : 22nd of September, 2023 at 2.30 pm in Faraday Hall, ES block, 2nd floor, Main campus.

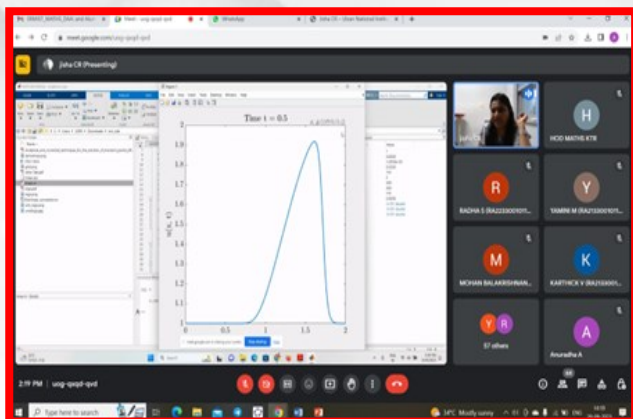


Department of Chemistry, SRM IST, Kattankulathur campus organized a lecture on "**Advanced porous materials for mobility solutions**" under the ``CHEMISTRY ASSOCIATION EVENT`` on 30th August 2023. The speaker of the event is **Dr. Tanay Kundu**, Assistant Professor, Department of Chemistry, SRM Institute of Science and Technology, Kattankulathur 603203, Tamil Nadu, India.

Academics - Mathematics



A two-day event of nurturing the mathematics students on applications of mathematics by visiting a mathematics-based engineering lab was organized on 12th and 13th September 2023. UG/PG students and some Research scholars visited the Fluid Dynamics Lab of the Department of Aerospace Engineering, SRMIST. From observing intricate flow patterns to understanding the practical applications of fluid dynamics in various industries, it was an eye-opening experience to all participants.



SRM
INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University u/s 3 of UGC Act, 1956)

Department of Mathematics
SRMIST, KTR Campus

Research Colloquium

21st July 2023
Venue: UB 1007
Timing: 10.00 a.m. to 11.00 a.m.

Title of the Talk:
On the detection of singularities using wavelets and shearlets : theory and numerics

Dr. Swaraj Paul
Research Assistant Professor
Department of Mathematics
SRMIST, KTR Campus

A two-day event of nurturing the mathematics students on applications of mathematics by visiting a mathematics-based engineering lab was organized on 12th and 13th September 2023. UG/PG students and some Research scholars visited the Fluid Dynamics Lab of the Department of Aerospace Engineering, SRMIST. From observing intricate flow patterns to understanding the practical applications of fluid dynamics in various industries, it was an eye-opening experience to all participants.

The July event [dated 21.07.2023] of Research Colloquium witnessed the talk entitled “On the detection of singularities using wavelets and shearlets: theory and numerics” by Dr. Swaraj Paul, Research Assistant Professor, Department of Mathematics, SRMIST.

Student Achievements



Dr. Hemanta Mandal, [PhD – 2023] has been offered the post of Assistant Professor at C V Raman Global University, Odisha.

Dr. M. Saraswathy, Ph.D Research Scholar has been offered the post of Assistant Professor at SRMIST, Ramapuram, Chennai..



Mr. V. Saravanan, Ph.D., Research Scholar has been offered the post of Assistant Professor at SRMIST, Ramapuram, Chennai..

Ms. Dharmika chowdary, II M.Sc., Mathematics student has been accepted to do her Master of Science Program @ **University of Cincinnati, Ohio, USA.**

Placement Details

Congratulations to all the students who are placed in the recent placement drive organized by SRMIST.

Register Number	Name of the Student	Programme	Company placed
RA2232005010016	PAVITHRA M	M.Sc., Maths	Zifo R&D
RA2232005010020	PRAVEENKUMAR R	M.Sc., Maths	Zifo R&D
RA2232005010022	REKHA R	M.Sc., Maths	Wayspire Ed-Tech Pvt Ltd.
RA2232005010010	VIVEGAA M V	M.Sc., Maths	Wayspire Ed-Tech Pvt Ltd.
RA2232005010001	HARSHINI VHALLI S	M.Sc., Maths	Wayspire Ed-Tech Pvt Ltd.
RA2232005010012	ASHVITHA C	M.Sc., Maths	Wayspire Ed-Tech Pvt Ltd.

Academics - Physics and Nanotechnology



ACCMS-Global Research Center SRMIST, Chennai India

Webinar #20





Prof. Puru Jena
Department of Physics, Virginia Commonwealth University,
Richmond, VA, USA

Title: Introduction to Superatomic Chemistry
and Superatom-based Materials

Registration link: <https://tinyurl.com/2p8az7bh>
**Zoom details will be shared with the registered participants*

Short biography
Prof. Puru Jena is a Distinguished Professor of Physics and Founding Director of the Institute for Sustainable Energy and Environment at Virginia Commonwealth University. He received his Ph. D. in Physics from the University of California at Riverside. He also served as Program Director at the National Science Foundation and as Jefferson Science Fellow and Senior Science Advisor at the US Department of State. Dr. Jena's research covers a wide range of topics in nano-structured materials, condensed matter Physics, chemistry, and materials Science. He is the author of more than 650 papers including 14 edited books, with Google citations and H index at 35,000 and 93, respectively. His many honors include Member of the National Academy of Inventors, Professor A. K. Chandra Memorial Award from the Indian Chemical Society, Fellow of the American Physical Society, Outstanding Scientist of Virginia, Outstanding Faculty of Virginia, Presidential Medallion, University Award of Excellence and Outstanding Scholar from Virginia Commonwealth University. He has served as a member of numerous scientific panels at the National Academy of Sciences, National Science Foundation, Department of Energy, and Army Research Office. He was a member of the Presidential Commission on bilateral scientific collaboration between USA and Russia.

Abstract
The periodic table of elements and their properties, as conceived by Dmitri Mendeleev in 1869 has limitations; the number of elements and their properties are either expensive or scarce. Alchemists have tried for centuries to alter the chemistry of elements without success, for example changing base metals into gold. Nanostructures provide a means of achieving some of the Alchemists' dream, as matter in nanometer length scale behaves differently than it does in the bulk phase. Superatoms are atomic clusters with tailored size and composition that mimic the chemistry of atoms in the periodic table, but with superior properties. Because of their specific size, composition, and non-spherical geometry, superatoms not only promote unusual reactions but also serve as the building blocks of a new class of cluster assembled materials with properties very different from conventional materials. This talk will provide the design principles of these superatoms and illustrate their unique role in the chemical and material sciences by focusing on superalkalis and superhalogens that behave like alkali and halogen atoms, respectively. However, the electron affinities of the superhalogens, which can be designed and synthesized without using even a single halogen atom, are larger than those of halogens. Similarly, the ionization potentials of superalkalis are smaller than those of alkali atoms. These superatoms can be used to fundamentally change our understanding of chemistry and physics; for example, noble gas atoms can form chemical bonds at room temperature, zinc can assume an oxidation state of +3, like charges can attract, etc. The superatoms can also serve as building blocks for advanced electrides, water-resistant materials for solar cells, halogen-free electrolytes for solid-state batteries, and multiferroic materials.

Panelist
 **Dr. Duc Nguyen Manh**
Culham Centre for Fusion Energy, United Kingdom Atomic Energy Authority, United Kingdom

Co-Chair:
 **Prof. Yoshiyuki Kawazoe**
Head, ACCMS-GRC SRMIST, KTN

Organizers:
 **Dr. V.J. Surya & Dr. S. Yuvaraj**
ACCMS-GRC Center-in-Charge
Dept. of Physics and Nanotechnology, SRMIST, KTN

**29 August 2023,
5.30 – 7.00 pm
Indian Standard
Time**









ACCMS-Global Research Center, SRMIST, Chennai India; Webinar #20 by Prof. Puru Jena, Department of Physics, Virginia Commonwealth University, Richmond, VA, USA on 29 August 2023, 5.30 – 7.00 pm.



2nd International Conference on the Asian Summer Monsoon Anticyclone (ASMA-2023), 11-13 September 2023 jointly organized by the Scheme for Promotion of Academic and Research Collaboration (SPARC), Govt of India, and the SRM Institute of Science and Technology (SRMIST) in association with Hokkaido University, Japan and University of Saskatchewan (USask), Canada at the Atmospheric Observation and Modelling Laboratory (AOML), Department of Physics and Nanotechnology.



Participants and resource persons at the **pre-conference lectures on the Asian Summer Monsoon Anticyclone** held in AOML, SRMIST Chennai, India, during 28 August -8 September 2023. Radiosonde launching training was also provided to the participants.

Weekly Research Colloquium: Sb₂Se₃ Based Substrate Configured Thin Film Solar Cell by Mr. M G Srinivasan; Research Scholar on 13/09/2023.

Value added courses:

- NTV 0604T: Entrepreneurship by Dr. C.Gopalakrishnan & Dr. Kiran Mangalapalli.
- UPY20V01J: Solar cells: Basics and Engineering by Prof. J K Rath (IIT Madras), Prof. S. Venkataprasad Bhat, Prof. P. Malar, Dr. Elangovan Elamurugu, Dr. Trilochan Sahoo.

Research—Chemistry

Number of Journal publications : 81

Average Impact Factor : 5.8

Highest Impact Factor Journal published : 15.0

Highest impact factor paper: (2)

Heyifei Fu, **Susnata Pramanik**, and Ivan Aprahamian. *Metal and Proton Relay-Controlled Hierarchical Multistep Switching Cascade*, **Journal of the American Chemical Society**, 145(36), 2023, 19554-19560. (Impact factor = 15.0).

Jayanta Samanta, Miao Tang, Mingshi Zhang, Russell P. Hughes, Richard J. Staples, and Chenfeng Ke. *Tripodal Organic Cages with Unconventional CH \cdots O Interactions for Perchlorate Remediation in Water*, **Journal of the American Chemical Society**, 2023, 145(40), 21723-21728. (Impact factor = 15.0).

Nature indexed publications : (6)

Rajendra Kumar Konidena, Minlang Yang, and Takuma Yasuda. A π -extended tercarbazole-core multi-resonance delayed fluorescence emitter exhibiting efficient narrowband yellow electroluminescence, **Chemical Communications**, 59, 2023, 10252-10254. (Impact factor = 4.9).

Heyifei Fu, **Susnata Pramanik**, and Ivan Aprahamian. *Metal and Proton Relay-Controlled Hierarchical Multistep Switching Cascade*, **Journal of the American Chemical Society**, 145(36), 2023, 19554-19560. (Impact factor = 15.0).

Pushbaraj Palani, Ajithkumar Arumugam, Dineshkumar Raja, Kesavan Muthu, and **Gopal Chandru Senadi**. Photoredox-Catalyzed 1,2-Oxo-Alkylation of Vinyl Arenes with 1,3-Diketones: An Approach to 1,4-Dicarbonyls via C-C Activation, **Chemical Communications**, 59, 2023, 11433-11436. (Impact factor = 4.9).

Sulakshana Shenoy, Chitiphon Chuaicham, Keiko Sasaki, Sungkyun Park, Muthuchamy Nallal, Kang Hyun Park, and **Karthikeyan Sekar**. Nitridation-free preparation of bimetallic oxide-nitride bifunctional electrocatalysts for overall water splitting, **Chemical Communications**, 59, 2023, 12451-12454. (Impact factor = 4.9).

Sengeni Anantharaj, Mochen Li, Roshini Arulraj, Karthik Eswaran, Sara Fidha C. M, Rajini Murugesan, **Arthanareeswari Maruthapillai**, and Suguru Noda. A tri-functional self-supported electrocatalyst featuring mostly NiTeO₃ perovskite for H₂ production via methanol–water co-electrolysis, **Chemical Communications**, 2023, 59, 12755-12758. (Impact factor = 4.9).

Jayanta Samanta, Miao Tang, Mingshi Zhang, Russell P. Hughes, Richard J. Staples, and Chenfeng Ke. *Tripodal Organic Cages with Unconventional CH \cdots O Interactions for Perchlorate Remediation in Water*, **Journal of the American Chemical Society**, 2023, 145(40), 21723-21728. (Impact factor = 15.0).

MoU signed between SRMIST and UPEC (France).

Total number of Ph.D. completed: 4

Total number of Book Chapters: 5

Research Projects : 6

Total lay out of the abovementioned projects : **204.74 lakhs** INR

S.No	Name of the PI	Title of the project	Agency/ Sanction File No.	Grant Amount (in lakhs)	Period of support
1.	Dr. B. Neppolian	Solar Light Driven Highly Efficient Production of Hydrogen Using Photocatalysis	Scheme for Promotion of Academic and Research Collaboration (SPARC) SPARC/2019-2020/ P2197/SL	74.92 Lakhs	2023-25
2.	Dr. M. Prakash	The Investigation of Anticancer Drugs for Triple- negative Breast Cancer(TNBC) by QM,QM/MM,and Molecular Dynamics Simulations Guided Virtual Screening	QCAL MeitY	26.63 lakhs	2023-25
3.	Dr. S. Karthikeyan	Photoconversion of CO ₂ into Fuels with Advanced Graphitic Carbon Nitride Multimetaloxide Heterostructures	SRG/2023/000658	29.17 lakhs	2023-25
4.	Dr. Abhijit Saha,	Investigating the effect of Om-pA-derived peptide molecules on actin cytoskeleton of BMEC and activation of PKC- α : An approach to get peptide shuttle for brain drug delivery	SRG/2023/000554	30 lakhs	2023-25
5.	Dr . Dipankar Das,	Fabrication of Levan-based Core -Shell Hydrogel Architecture for Sustained Drug-Delivery Application	SRG/2023/000970	27 lakhs	2023-25
6.	Dr.Rahul Narayanan	Accelerated chemical synthesis in microdroplets	SRG/2023/001408	17.02 lakhs	2023-25

Awards:



Ms. G. Abigail Jennifer (Reg. No. RA2133003011045), PhD. Research Scholar of Dept. of Chemistry received an award **“Mitacs Globalink Research Award for Research in Canada”** during the period of 15th Sep. 2023 – 15th March 2024 with a grant of **\$6000.00**.



Jenson Samraj Jeyaprakash, Research scholar, Department of Chemistry was awarded with DST-Inspire fellowship for research students.

Research—Mathematics

Number of Journal publications : 80

Average Impact Factor : 2.86

Highest Impact Factor Journal published : 8.7

Highest impact factor papers :

G. Narayanan, M. Syed Ali, Young Hoon Joo, **R. Perumal** , Bashir Ahmad, and Hamed Alsulami, Robust Adaptive Fractional Sliding-Mode Controller Design for Mittag-Leffler Synchronization of Fractional-Order PMSG-Based Wind Turbine System, **IEEE TRANSACTIONS ON SYSTEMS, MAN, AND CYBERNETICS: SYSTEMS**, VOL. 53, NO. 12, 2023. 7646-7655. (**Impact factor = 8.7**).

Nikita Naik, R. Gayathri, **H. Behera**, Chia-Cheng Tsai, Wave power extraction by a dual OWC chambers over an undulated bottom, **Renewable Energy**, Volume 216, 2023, 119026, ISSN 0960-1481, <https://doi.org/10.1016/j.renene.2023.119026>. (**Impact factor = 8.7**).

Research Projects :

Total number of new grants received : 1

Total outlay of the above mentioned project : **35.07** lakhs INR

S.No.	Name of the PI	Title of the project	Agency/ Sanction File No.	Grant Amount (in lakhs)	Period of support
1	Dr. Harekrushna Behera (Co-PI)	A comprehensive approach to the problem of spatial evolution of water waves by wind	MoES, Govt India / MoES/36/OOIS/Extra	35.07	2023-26

Patents - Published : 1

Mr.S.Satheesh Kumar, **Dr. V. Muthukumaran**, Mrs. Radhika E.K, IoT-Driven Wireless Communication System of Wind-Induced Pressure Prediction on Tall Buildings for Smart City, Published Patent Number: 202341050824

Number of Ph.D. Completed: 9

Total number of Book Chapters: 1

Awards/ recognitions / honours received by Faculty & Students:

Dr. R. Senthamarai delivered an invited talk on “Steady state amperometric biosensor analysis by Taylor series method” at Sadakathullah Appa College, Tirunelveli on 27.09.2023.



Dr. L. Shobana delivered an invited talk on "Encrypting Numbers through Graphs" Women's Christian College, Chennai on 11.09.2023




Dr. P. Godhandaraman delivered an invited talk on "Power of Mathematics in Real World Problems", at ETAM-2023, Auxilium College, Vellore Campus On 01.09.2023


CHEIF PATRON
Dr. G. Viswanathan Chancellor


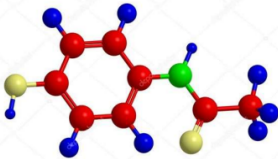
PATRONS
Mr. Sankar Viswanathan Vice President
Dr. Sekar Viswanathan Vice President
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REGISTRATION DETAILS
No Registration Fee
Mode of Registration through Google form with the following link
<https://forms.gle/7Jo3YdyW3E6WerhA8>
Last Date for Registration 07/09/2023

RESOURCE PERSONS


Dr. E. Suresh
 Assistant Professor
 Department of Mathematics
 Faculty of Engineering and Technology
 SRM Institute of Science and Technology, Chennai.


Dr. Sourav Mondal
 Post Doctoral Fellow
 Department of Mathematics
 Sungkyunkwan University
 Suwon 16419
 Republic of Korea.

**One Day
International Workshop
on
EXPLORING MOLECULES
VIA
GRAPH THEORY
in
Virtual Mode
8th, September 2023**

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Dr. E. Suresh delivered an invited talk on "On vertex based topological indices", at one day international workshop on Exploring Molecules Via Graph Theory, VIT University, Vellore Campus, 08.09.2023

Dr. Sourav Mondal delivered an invited talk on "Chemical graph theory and its applications", at one day international workshop on Exploring Molecules Via Graph Theory, VIT University, Vellore Campus, 08.09.2023

Research—Physics and Nanotechnology

Number of Journal publications : 90

Average Impact Factor : 5.52

Highest Impact Factor Journal published : 15

Highest impact factor papers:

Haining Zheng, Arup Ghosh, M. J. Swamynadhan, Gang Wang, Qihan Zhang, Xiao Wu, Ibrahim Abdelwahab, Walter P. D. Wong, Qing-Hua Xu, **Saurabh Ghosh**, Jingsheng Chen, Branton J. Campbell, Alessandro Stroppa, Junhao Lin, Ramanathan Mahendiran and Kian Ping Loh, “Electron Spin Decoherence Dynamics in Magnetic Manganese Hybrid Organic–Inorganic Crystals: The Effect of Lattice Dimensionality”, Journal of American Chemical Society, 2023, 145, 33, 18549–18559. DOI:10.1021/jacs.3c05503 (**Impact Factor = 15**)

Nature Indexed journal publications (2):

Haining Zheng, Arup Ghosh, M. J. Swamynadhan, Gang Wang, Qihan Zhang, Xiao Wu, Ibrahim Abdelwahab, Walter P. D. Wong, Qing-Hua Xu, **Saurabh Ghosh**, Jingsheng Chen, Branton J. Campbell, Alessandro Stroppa, Junhao Lin, Ramanathan Mahendiran and Kian Ping Loh, “Electron Spin Decoherence Dynamics in Magnetic Manganese Hybrid Organic–Inorganic Crystals: The Effect of Lattice Dimensionality”, Journal of American Chemical Society, 2023, 145, 33, 18549–18559. DOI:10.1021/jacs.3c05503 (**Impact Factor = 15**)

Debanjan Polley, Akshay Pattabi, Ashwin Rastogi, Kaushalya Jhuria, Eva Diaz, Hanuman Singh, Aristide Lemaitre, Michel Hehn, Jon Gorchon, Jeffrey Bokor, “Picosecond spin-orbit torque–induced coherent magnetization switching in a ferromagnet” Science Advances, 9, eadh5562(2023), DOI: 10.1126/sciadv.adh5562 (**Impact Factor = 13.16**)

Research Projects :

Total number of new grants received : 3

Total outlay of the above mentioned project : **114.41** lakhs INR

Sl. No.	Name of the PI	Title of the project	Agency/ Sanction File No.	Grant Amount (in lakhs)	Period of support
1	Dr.J.Archana	Development of hybrid solar-thermoelectric generator by interacting dye sensitized solar cell with thermoelectric device for high performance energy applications	CSIR-EMR	27.5	2023-26
2	Dr. Iyakutti K (co-PIs: Dr. A. Karthikeyan and Dr.VJ. Surya)	Design and fabrication of Nanostructured metal hydride based hydrogen storage material for portable, light-weight applications.	ONRG-Office of Naval Research Global, United Kingdom	66	2023-25
3	Dr.G.Devanand Venkatasubbu	Fabrication of polymeric scaffold using layer by layer assembly for enhanced diabetic foot ulcer intervention	Department of Biotechnology (DBT), Govt. of India	20.91	2023-25

Number of Ph.D. completed : 17

Memorandum Of Understanding:

- MoU with Shizuoka university, Japan - renewed in July 2023

Awards/ recognitions / honours received by Faculty & Students:

- Dr. Sandeep Kumar Lakhera, Editorial board member, Green Biomaterials (Taylor and Francis).
- Dr. Kamala Bharathi, Editorial board member, Materials Research Bulletin (Elsevier).



- SNEHIDHA IRUDAYARAJ of II MSc-physics received achievers award on INDEPENDENCE DAY from IAS. Also bagged 1st Prize (Rs. 5000) in Open speech Competition on same day evening conducted by IUML (Indian Union Muslim League).

Faculty Corner

ADVANCING EARLY DISEASE DIAGNOSIS WITH PLASMONIC RESONANCES: PAVING THE WAY FOR COMMERCIAL TRANSLATION



Early and accurate diagnosis of a disease and its causative pathogens is an important step toward appropriate intervention measures. Early detection of diseases, particularly chronic diseases, while they are asymptomatic, they necessitate specialized diagnostic testing. Traditional diagnostic techniques require excessive examination schedules and medical resources, and it is also inevitably costly. Nowadays a biosensor is a ubiquitous tool in biomedical diagnosis and is also an integral part of various areas such as point-of-care (POC) monitoring and treatment, environmental monitoring, food control, drug discovery, and biomedical research.

Surface Plasmon Resonance (SPR) is an optical phenomenon that offers a non-invasive, label-free method for observing binding interactions between an analyte and biomolecules. Nylander and Liedberg's introduction of SPR for gas detection and biosensing has led to a growing interest in SPR-based biosensors. The target molecule is detected through the refractive index (RI) change that occurs near the sensing layer due to the presence of a new substance, namely, analyte molecules. This change in RI is discerned through alterations in the electromagnetic resonance of the evanescent wave. The properties of the Surface Plasmon Polariton (SPP) wave are highly responsive to the dielectric layers and any modifications in the sensor. To function, SPR sensors require a coupling mechanism. Initially, this was accomplished through prism coupling with the introduction of the Kretschmann configuration. Over time, this approach has evolved, and studies have explored other coupling mechanisms, such as optical fiber, waveguide, and grating-based sensors. Such type of sensors has shown a great advantage compared to the conventional ones including (i) real-time monitoring to uncover the binding dynamics for observing various biological interactions between biomolecules, (ii) label-free detection, (iii) high reusability, (iv) short response time, and (v) simple sample treatments, along with the use of minimal electrical components. Today, several companies such as Biacore, PhotonicSys, Plasmatrix, and others are producing devices used to evaluate the performance of chip-based sensors for POC devices.

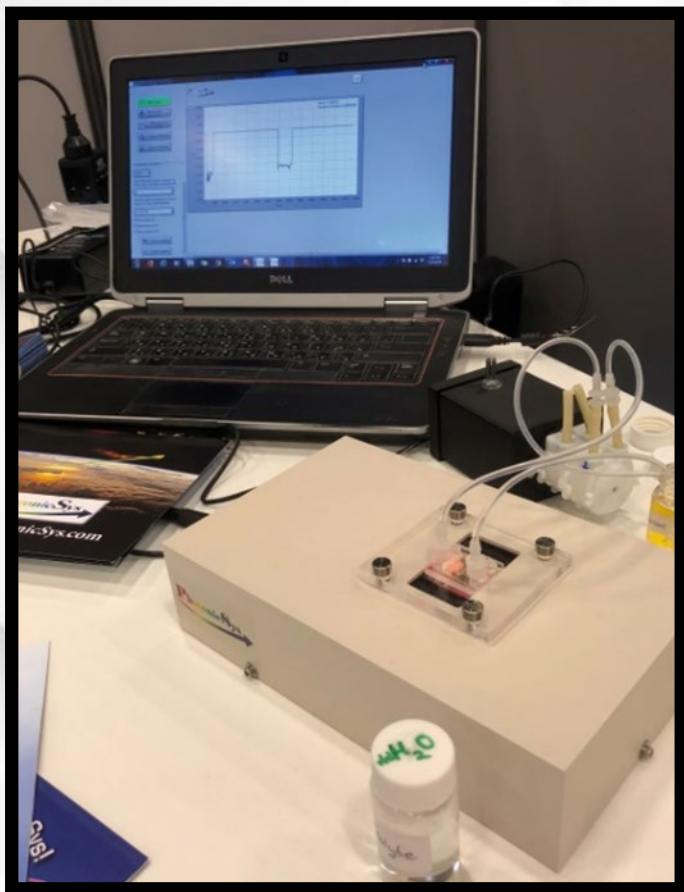



Figure: PhotonicSys SPR system H5 in operation under flow. The name H5 came from its height which is 5 cm. (Source: PhotonicSys Ltd.)

Biacore™ systems and consumables helps to generate information-rich affinity, kinetics, concentration, specificity, and comparability data in real-time. The high-quality data produced allows the better discriminate crucial differences in molecular interactions, from research to drug discovery and quality control (www.biacore.com). On the other hand, Photonicsys Ltd. presented its first miniature surface plasmon resonance (SPR) instrument and special substrates in BioX conference-Singapore. The device is less than 5cm height, weighs less 1kg and performs refractive index measurement accuracy down to 10^{-6} equivalent to $<pg/mm\ sq.$, can handle four channels simultaneously (www.photonicsys.com). It allows to the ability for portable clinical diagnosis device and can be used for in-house hospital diagnosis.

By

Dr. Anand M. Shrivastav,
Research Assistant Professor,
Department of Physics and Nanotechnology,
SRMIST, Kattankulathur.

Alumni Connect




Dept. of Physics and Nanotechnology, SRMIST

Invites you for
Alumni Webinar

By

Dr. L Saravanan
FONDECYT Postdoctoral Fellow, Physics
Department, Federico Santa Maria Technical University,
Valparaiso, Chile.

Alumni -
(PhD. Physics) 2019



Title of the talk: "Investigation on Advanced Memory Devices for New Generation World"

Date: 11- Aug-2023, **Time:** 3.00 PM to 4.00 pm IST

Alumni Coordinator:
Dr. Jaivardhan Sinha
Dr. Tilochan Sahoo
Dr. Venkata Resendes A

Zoom Webinar link:
Meeting ID: 972 7001 0064
Passcode: 784711



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Alumni Talk
Higher Order Entropy Stable Scheme for HCL



2023
SEPTEMBER
29
2.00 PM – 3.00 PM





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Ulsan National Institute of Science and Technology
South Korea

Organizing Committee
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Director of Alumni Affairs
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Mathematics

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About the Institution: SRM IST is one of the top ranking universities in India with over 50,000 students and 3,200 faculty members, offering a wide range of undergraduate, postgraduate and doctoral programs in Engineering, Management, Medicine and Health sciences and Science and Humanities. It has established itself as a premier centre for teaching, research and industrial, consultancy in the country. It has world class infrastructure including smart classrooms, hi-tech labs, advanced instruments and equipments, research laboratories, modern library and Wi-Fi facility. SRM IST is Accredited by NAAC with A + grade in 2018.

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About the Department: Department of Chemistry, SRM IST has been engaged in opening up the fascinating world of Chemistry to students since 1985. The Department is supported by DST-FIST, Govt of India. The Department is offering B.S. (Chemistry), B.Sc. (Chemistry), M.Sc. (Chemistry), M.Sc. (Organic Chemistry) and Ph.D (Chemistry) programs. It has 55 faculty members whose areas of expertise and research include organic, inorganic, physical, analytical, environmental, electrochemistry and nanotechnology. The main objective of this conference is to provide platform for constructive ideas on recent trends and innovative approaches in efficient use of materials in the field of chemical sciences.

ANNOUNCEMENT AND FIRST CALL FOR PAPERS

Important Dates

Early Bird Registration	: 31-12-2023
Acceptance of Abstract	: 02-01-2024
Last Date for Abstract Submission	: 31-12-2023
Submission of Full Paper	: 31-01-2024
Last Date for Registration	: 31-01-2024

The conference will provide a good platform to find a suitable research collaborator in home and abroad. The brain storming session paves the way to submit joint research proposals for funding between India and rest of the world.

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Conference Topics

Advanced Energy Materials | Nanomaterials | Drug Delivery System | Eco Friendly Materials | Hydrogen and Fuel Cells | Functional Materials, Seismic Materials | Quantum Dots | Materials Testing and Evaluation | Microwave Processing of Materials | Sensors / Biosensors | Polymeric Materials | Bio Materials and Bio Devices | Optical, Electronic and Magnetic Materials | Structural Materials | Computational Materials | Composite and Hybrid Materials | Soft & Smart Materials | Materials for Photocatalysis and Photoelectrocatalysis | Materials for Dye-sensitized Solar Cells | Materials for Corrosion Protection | Electroactive Materials

Best presentations will be selected for the award.

All the accepted papers will be peer reviewed and the selected papers will be published in Scopus Indexed Journals

Category	Early Bird Registration for Indian Delegates (before 31-12-2023) (Fee INR)	Late Registration for Indian Delegates (After 31-12-2023) (Fee INR)	Early Bird Registration for Foreign Delegates (before 31-12-2023) (Fee USD)	Late Registration for Foreign Delegates (After 31-12-2023) (Fee USD)	Registration fees shall be paid online transaction or by DD drawn in favour of "Chemistry Department Association" payable at Chennai must be sent to the convenor along with registration form.
Students / Research Scholars	4,000	5,000	250	300	
Academic / R&D Participants	5,000	6,000	400	500	
Industry	6,000	7,000	500	550	

Convenor: Dr. M. Arthanareeswari, Prof. & Head, Department of Chemistry, SRMIST, Kattankulathur. Ph: 044-27417872

Mailing Address: Convenor - ICRAMC 2024
Department of Chemistry, College of Engineering and Technology, SRM IST
Kattankulathur - 603 203, India. Website: <https://www.srmist.edu.in/events/icramc-2024>
E-mail: icramc.2024.ktr@srmist.edu.in Contact No.: + 91 90802 73919 / +91 94980 53414

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Our Ranking



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CSIR
Council of Scientific & Industrial Research



WONDR
DIAMOND

5th International Conference on Mathematical Techniques and Applications (ICMTA-2024) and Workshop on Scientific Computing, Modeling and Deep Learning (WSCMDL)

02-06 January, 2024

Organized by
Department of Mathematics
SRM Institute of Science and Technology (SRM IST)
Kattankulathur, Chengalpattu District, India

In association with
Indian Society for Mathematical Modeling and Computer Simulation (ISMMACS)

Theme of the Conference

- Machine learning and Scientific applications
- Computational algorithm, Image processing
- Soft Computing, Optimization
- Stochastic differential equations,
- Mathematical modelling, Computational fluid dynamics
- Fuzzy Sets and Systems, Graph Theory and applications
- Analytical and numerical Methods for ODEs and PDEs.
- Controllability, Stability of differential equations. Inverse problem

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Prof. V. Raghavendra, IIT Kanpur

Prof. Anuj Mubayi, ISU, Normal, Illinois, USA

Prof. Ravi P. Agarwal, Texas A&M University-Kingsville, USA.

Event Venue:

Dr. T. P. Ganesan Auditorium, Mini Hall-I
SRM Institute of Science and Technology,
Kattankulathur, Chengalpattu District, India

Theme of the Workshop

The availability of democratized computational power and rich advanced programming tools has led to the emergence of Scientific machine learning (SciML) which entangles and harnesses the rich knowledge and tools from traditional scientific computing and advanced machine learning. SciML has immensely improved the ability to solve and simulate mathematical models of complex problems in computational science and engineering. This fusion of scientific computing and machine learning synergistically propels progress. It leads to the creation of novel algorithms and network models characterized by scalability, computational efficiency, domain-specific insight, interpretability, and robustness. This interdisciplinary event serves as a collaborative platform, facilitating the exchange of insights between budding applied mathematicians and engineers. The event delves into the realms of deep learning for modeling and simulation, scientific computing, and the reciprocal influence of scientific computing within the domain of deep learning. Additionally, it fosters opportunities for the interchange of research concepts encompassing both theoretical and applied advancements in SciML and mathematical modeling computational techniques.

Theme of the Workshop

The workshop aims to cover classical as well as recent advances along with the future research directions in the machine learning for computational Mathematics and applications. It will also aim to cover some of deep learning frameworks for scientific computing with hands-on code implementation. Some of the tentative focus topics are:

- Physics informed neural networks for solving nonlinear partial differential equations and some theoretical results.
- Fourier neural operator and some theoretical results.
- Classification and regression approach to learn polynomial reconstructions and its applications in PDEs.
- Synthetic data generation and data processing for network training.
- Neural ODEs and applications for neural networks with skip connections.
- Bayesian inference for scientific computing.

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Dr. V. Subburayan, HoD Mathematics, SRM IST

Important dates

Abstract Submission Deadline* : 15/11/2023

Abstract acceptance notification : 20/11/2023

Early registration deadline : 25/11/2023

Submission of full paper deadline : 29/02/2024

*Abstract is required for paper presentation in the conference

Website

<https://www.srmist.edu.in/events/sci-ml-ncmta2024>

Registration link

<https://forms.gle/5xMrp5vqMzUv2qB89>

Scan to register

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Account Name: Sri Ramanujam Mathematics Club

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Account No.: 7111751746

Bank Name : Indian Bank

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MICR Code: 600019171

Abstract submission link

<https://forms.gle/9Tu2T6kHuC7CmCm8>

Further queries, reach out to us:

Primary: sccm@icmta.2024@srmist.edu.in

Secondary: riteshd@srmist.edu.in

Phone: 044-2741-6224, +91 79048 47378

Registration details

Category	Workshop		Conference		Workshop + Conference	
	Online	Onsite	Online	Onsite	Online	Onsite
Domestic PhD/PDFs*	INR 3500	INR 4000	INR 3500	INR 4000	INR 7000	INR 8000
Faculty and others**	INR 2500	INR 3000	INR 2500	INR 3000	INR 4500	INR 5500
Overseas	USD 100	USD 125	USD 100	USD 125	USD 175	USD 225
SRM Students/faculty	INR 2000/2500					

- * Includes accommodation charges: Accommodation will be provided only to outstation PhD and Postdoc participants on sharing basis.
- ** Accommodation charges extra: Subsidized INR 800/- in SRM Guest house and INR 2500/- in SRM Hotel (per night on sharing basis)
- The life members of Indian Society for Mathematical Modeling and Computer Simulation (ISMMACS) will get 15% discount in the registration fee. For membership visit <https://ismmacs.org/index.html>
- The registration fee includes tea/coffee, working lunch/dinner and conference kit and possible excursion trip.
- Booking for paid accommodation in nearby hotels can be made on subsidized rate for outstation conference participants on payment basis.
- Outstation PhD and PDF participants can be given travel support as per government norm subject to the availability of funds.
- It is advised that the participants bring their laptops for hands on practice on deep learning codes for the workshop, free wi-fi will be provided.
- Best paper and poster presentation will be given

Speakers in workshop + conference


Dr. Deep ray
University of Maryland


Dr. Arjun Singh Yadav
National Institute of Health- Rockville, MD, USA


Dr. Dhruv Patel
Stanford University, USA


Prof. Peeyush Chandra
IIT Kanpur, President ISMMACS


Prof. S. Sundar
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Prof. Loh Wei Ping
USM Malaysia


Prof. Venkateswaran Krishnan
TIFR - CAM, Bangalore

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IIT Kanpur, President ISMMACS


Prof. S. Sundar
Director NIT Mizoram


Prof. B. V. Rathish Kumar
IIT Kanpur


Prof. G. P. Raja Sekhar
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Ranked 4th


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Notifications & Announcements

The Department of Physics and Nanotechnology, SRMIST is organizing a six days Faculty Development Program on “Modeling and Technology of Advanced Materials”, from 27th November, 2023 to 2nd December, 2023.

National Physicists Conclave 2024 (NPC 2024) -being organized by Department of Physics and Nanotechnology from 06 - 10, February 2024.



<https://npc2024.in/>

<https://tinyurl.com/NPC2024PosterFirstCall>



Notifications & Announcements

International Conference on Advanced Functional Materials and Devices

(AFMD - 2024)

Feb 26 - 29, 2024

Organized by

Nanotechnology Research Centre (NRC)

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

NRC Website: <https://www.srmist.edu.in/research/research-wings/nrc/>

In association with

AFMD Website: <https://afmdsrmist2024.in/>



SECOND ANNOUNCEMENT

AFMD stands as a unique conference initiated by the Nanotechnology Research Centre (NRC) at SRMIST, with a specific emphasis on highlighting the latest breakthroughs in the realm of materials science research and nanotechnology. This conference extends invitation to researchers who are actively engaged in the fields of advanced materials, devices, and emerging topics in nanotechnology with an ultimate aim of catalyzing significant technological transformations. AFMD encourages the researchers to showcase their research findings among the diverse community of scientists, educators, industry professionals, and students through poster and oral presentations. AFMD-2024 is a collaborative effort with the association of premier institutions and organizations, including Shizuoka University, Japan; University of Paris cite, France; University of Montpellier, France; Nara Institute of Science and Technology, Japan; University of Gustave Eiffel, France; Daegu Gyeongbuk Institute of Science & Technology, South Korea; Universiti Malaysia, Malaysia; Universiti Tun Hussein Onn, Malaysia; Rigas Tehniskā universitāte, Latvia; Universitas Indonesia, Indonesia; Japan Society of Applied Physics (JASAP); The Ceramic Society of Japan; Polish academy of science; National Cheng Kung University, Taiwan; FUJII Electronic Industrial Co., Ltd., Japan; SPD Laboratory Inc., Japan; IPIG Instruments; JEOL India Pvt Ltd; Biologic Instrument; in addition to various national and international societies and research organizations.

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 - Dr. Ravi Pachamuthu, Pro-Chancellor (Admin), SRMIST, India
 - Dr. P. Sathyanarayanan, Pro-Chancellor (Academics), SRMIST, India
 - Dr. R. Shrivakumar, Chairman, SRM Trichy & Ramapuram Campuses, India
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- Scientific Sessions**
- (*Refer the AFMD website for detailed information about each symposia)
- Symposia A:** Electronic, Optical, Optoelectronic, Quantum Materials and Devices
 - Symposia B:** Electrochemical Energy Conversion, Storage & Devices
 - Symposia C:** Sensors and Wearable Devices
 - Symposia D:** Ferroelectric, Magnetic & Multiferroic Materials for Spintronics and Memory Applications
 - Symposia E:** Energy Harnessing for Sustainable Future
 - Symposia F:** Functional Nanomaterials and Applications
 - Symposia G:** Structural Materials, Composites, Coatings and Additive Manufacturing
 - Symposia H:** Soft Materials, Biomaterials, Healthcare & Herbal Materials and Drug Materials
 - Symposia I:** Materials for Environment & Sustainable Development Goals
 - Symposia J:** Waste-to-Wealth
 - Symposia K:** Computational Materials Science and Materials Informatics

Important Dates

Event	Date
First Announcement/Call for Abstract	September 15, 2023
Abstract Deadline	November 30, 2023
Acceptance Notification	December 05, 2023
Final Registration Deadline	January 10, 2024

- Journal Publications**
- Manuscripts submitted will be peer-reviewed and accepted papers will be published as a special issue in the following journals.
- Emergent Materials (IF-3.8)
 - Environmental Science and Pollution Research (IF-5.8)
 - Molecular Simulation (IF-2.1)
 - Electrochimica Acta (IF-6.6)
 - Advanced Powder Technology (IF-5.2)
 - Journal of The Ceramic Society of Japan (IF-1.13)
 - All the accepted abstracts will be published in AFMD-2024 abstracts volume with ISBN number
 - *Other journal details will be updated soon.

- Awards**
- AFMD-2024 declares recognition in the categories listed below:
- AFMD Best Oral/Poster Presentation Award
 - AFMD Outstanding Researcher Award
 - AFMD Emerging Women in Material Science Award
 - AFMD Emerging Researcher Award
 - AFMD Life Time Achievement Award

- Plenary/Keynote/Invited Speakers**
- Prof. Abdelhamed Elrachid, Institute of Analytical Sciences, France
 - Dr. Ajay Agarwal, IIT, Jaipur
 - Dr. Ajay Singh, BARC, Mumbai
 - Prof. Ahmed Fouzi Ismail, University Teknologi Malaysia, Malaysia
 - Prof. Ariel Isomach, Tel Aviv University, Israel
 - Prof. Arindam Ghosh, IISc Bangalore
 - Prof. Arindam Chandra, IIT Madras
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 - Prof. Asyafatullah Laila Binti Nor Haini, HUM, Malaysia
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 - Prof. Chandan Kumar, IISc, Bangalore
 - Prof. Chao-Wai Huang, National Cheng Kung University, Taiwan
 - Prof. Changsook Kim, INHA University, South Korea
 - Prof. Chien-Hsiang Chang, National Cheng Kung University, Taiwan
 - Prof. Christopher E. Sherratt, Rutgers University, USA
 - Prof. Clark Kendrick C. Jones de Manila University, Philippines
 - Prof. Dorota G. Pijonowska, Polish Academy of Science (IBS PAS), Poland
 - Prof. Dimitrios Bikiaris, Aristotle University of Thessaloniki, Greece
 - Prof. Dinghua Bao, Soe-Yul-Sen University, China
 - Dr. Dilip Kumar, IIT, Ropar
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 - Prof. Václav Švec, University of Chemistry and Technology, Prague
 - Prof. Virgil Andrei, University of Cambridge, UK
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 - Prof. Weng Xing, City University of Hong Kong, Hong Kong
 - Prof. Wonyong Choi, KENTECH, Rep. of Korea
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 - Prof. Yoshiko Hayakawa, Shizuoka University, Japan
 - Prof. Yuchi Sakumura, NAIST, Japan
 - Prof. Yuta Kubota, Tokyo Institute of Technology, Japan

Registration Fees (*Includes 18% GST)			
Category	Registration (November 07 - December 06, 2023)	Registration (December 07 - January 16, 2024)	Registration (January 17, 2024)
Indian Subcontinent	Rs. 2500	Rs. 4500	Rs. 6000
Indian Postgraduate/PhD/Postdoc	Rs. 2500	Rs. 5500	Rs. 7000
Indian Faculty/Scientists	Rs. 5000	Rs. 7000	Rs. 9000
Foreign/Scientists	Rs. 15000	Rs. 30000	Rs. 35000
Overseas/Scientists	USD 100	USD 300	USD 400
Overseas/Postgraduate/PhD/Postdoc	USD 200	USD 500	USD 600
Overseas/Faculty/Scientists	USD 500	USD 800	USD 1000

Contact Details

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