



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



International Conference on Advanced Functional Materials and Devices (AFMD-2024)

February 26-29, 2024

PROGRAM BOOKLET

Organized by



Nanotechnology
Research Centre
SRMIST

Conveners

Dr. M. Navaneethan
Dr. E. Senthil Kumar

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Co-sponsored by

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INTERNATIONAL CONFERENCE ON ADVANCED FUNCTIONAL MATERIALS AND DEVICES - 2024 (AFMD-2024)

Organized by
Nanotechnology Research Centre (NRC), SRMIST

February 26-29, 2024

PROGRAMME SCHEDULE

Day – 1

(February 26, 2024 - Monday)

07.30 – 09.45	Registration @ Dr. T. P. Ganesan Auditorium (TPGA)		
10.00 – 11.10	Inaugural Program @ Dr. T. P. Ganesan Auditorium (TPGA)		
11.10 – 11.30	High Tea		
Parallel Session 1			
TPGA Mini Hall - 1	Chair: Prof. Mohamed Chehimi, CNRS, France Co-chair: Dr. Trilochan Sahoo, Physics, SRMIST, KTR		
	11.35 – 12.10	KN 01	Prof. Naoki Wakiya Shizuoka University, Japan Title: Computer simulation of spontaneous superlattice formation in S-Ti-O thin film by dynamic aurora PLD
	12.10 – 12.40	IT 01	Dr. Pavels Onufrijevs Riga Technical University, Latvia Title: Laser-assisted tailoring of semiconductors properties for advanced microelectronics: unleashing the possibilities for GeSn epitaxial layers
TPGA Mini Hall - 2	Chair: Prof. Mei-Jywan Syu, National Cheng Kung University, Taiwan Co-chair: Dr. Anbumozhi Angayarkanni, Physics, SRMIST, KTR		
	11.35 – 12.10	KN 02	Dr. T. N. Narayanan Tata Institute of Fundamental Research, Hyderabad Title: Engineering electrode-electrolyte interfaces in heterogeneous catalysis
	12.10 – 12.40	IT 02	Prof. Soorathep Kheawhom Chulalongkorn University, Thailand Title: Innovative integration of MOF-derived NiFeO nanocrystals and Ti ₃ C ₂ T _x MXene nanosheets in oxygen electrocatalysis for rechargeable zinc-air

SBE 101	Chair: <i>Dr. Daniel Moraru, Shizuoka University, Japan</i> Co-chair: <i>Dr. P. Malar, Physics, SRMIST, KTR</i>		
	11.35 – 12.10	KN 03	Prof. Ajay Agarwal Indian Institute of Technology, Jodhpur Title: <i>Do Nano-sensors need AI?</i>
	12.10 – 12.40	IT 03	Dr. Aman Mahajan Guru Nanak Dev University, Amritsar Title: <i>Self-powered monitoring of biomarkers and environment pollutants by integrating MXene based sensors with nanogenerators</i>
SBE 102	Chair: <i>Prof. Nji Raden Poespawati, Universitas Indonesia, Indonesia</i> Co-chair: <i>Dr. Payel Bandyopadhyay, Physics, SRMIST, KTR</i>		
	11.35 – 12.10	KN 04	Prof. Mohd Khairul Bin Ahmad Universiti Tun Hussein Onn Malaysia, Malaysia Title: <i>Unlocking the potential of rutile TiO₂: innovations and applications</i>
	12.10 – 12.40	IT 04	Dr. Ursic Hana Jožef Stefan Institute, Slovenia Title: <i>Aerosol deposition of functional thick films on metal and polymer substrates</i>
SBE 103	Chair: <i>Prof. Yueh-Heng Li, National Cheng Kung University, Taiwan</i> Co-chair: <i>Dr. C. Preferential Kala, Physics, SRMIST, KTR</i>		
	11.35 – 12.10	KN 05	Prof. Ramesh Chandra Mallik Indian Institute of Science, Bangalore Title: <i>Tetrahedrite and Skutterudite: Two important crystal structures in thermoelectric research</i>
	12.10 – 12.40	IT 05	Dr. Maizatul Azrina Yaakob Universiti Tun Hussein Onn Malaysia, Malaysia Title: <i>Dual role of microalgae in wastewater treatment for bioproduct (fish feeds alternative)</i>
SBE 104	Chair: <i>Prof. Ryo Teranishi, Kyushu University, Japan</i> Co-chair: <i>Dr. Debabrata Sarkar, Physics, SRMIST, KTR</i>		
	11.35 – 12.10	KN 06	Prof. T. Serkan Kasirga Bilkent University, Turkey Title: <i>Substrate effects and ionic phase transitions at two-dimensions</i>

	12.10 – 12.40	IT 06	Prof. Chao-Wei Huang National Cheng Kung University, Taiwan <i>Title: Metal-organic frameworks composites for dye degradation via adsorption, heterogeneous photo-fenton and photocatalysis</i>
SBE 201	Chair: Prof. Chien-Hsiang Chang, National Cheng Kung University, Taiwan Co-chair: Dr. Tusharabhai H Rana, Physics, SRMIST, KTR		
	11.35 – 12.10	KN 07	Prof. Muhammet S. Toprak KTH Royal Institute of Technology, Stockholm, Sweden <i>Title: Development of inorganic nanoparticles for biomedical imaging</i>
	12.10 – 12.40	IT 07	Dr. Ionut Topala Alexandru Ioan Cuza University of Iasi, Romania <i>Title: Atmospheric pressure plasma deposition of interstellar dust analogues based on amorphous hydrogenated carbon and evolution after proton irradiation</i>
SBE 202	Chair: Dr. Katarzyna Krukiewicz, Silesian University of Technology, Poland Co-chair: Dr. M. Kovendhan, Physics, SRMIST, KTR		
	11.35 – 12.10	KN 08	Prof. C. Clark Kendrick Ateneo de Manila University, Philippines <i>Title: Topological data analysis: Fundamentals and use-cases</i>
	12.10 – 12.40	IT 08	Dr. Chi-Cheng Chiu National Cheng Kung University, Taiwan <i>Title: Molecular design of ion pair amphiphiles for biomimetic catanionic bilayers with designated phase and morphological properties.</i>
12.40 – 14.00		Lunch Break	
Parallel Session 2			
TPGA Mini Hall - 1	Chair: Prof. Paul Joseph Daniel, National Institute of Technology, Warangal Co-chair: Dr. R. Ajay Rakesh, Physics, SRMIST, KTR		
	14.00 – 14.35	KN 09	Prof. Kazuhiko Hara Shizuoka University, Japan <i>Title: Issues on substrates for the thin film growth of hexagonal boron nitride by low-pressure chemical vapor deposition</i>

	14.35 – 15.05	IT 09	Prof. P. Rajamalli Indian Institute of Science, Bangalore <i>Title: Systematic investigation to enable the high efficiency thermally activated delayed fluorescence emitter for OLEDs</i>
	15.05 – 15.35	IT 17	Dr. Catur Apriono Universitas Indonesia, Indonesia <i>Title: Design of LO phase shifter based on quadrature hybrid branchline coupler for IQ mixer in synthetic aperture radar applications</i>
	15.35 - 16.15	Oral Presentation (OP 01 – OP 04)	
TPGA Mini Hall - 2	<i>Chair: Prof. Bhagwati Prasad, IISc, Bangalore Co-chair: Dr. Rohit dir, Physics, SRMIST, KTR</i>		
	14.00 – 14.35	KN 10	Prof. Suman De Sarkar IISER, Kolkata <i>Title: Regulating chemoselectivity of organic transformations through electrolysis</i>
	14.35 – 15.05	IT 10	Dr. Mohammad Abul Hasnat Shahjalal University of Science and Technology, Bangladesh <i>Title: Electro-oxidation of ethanol on IrOx-Pt and oxidation of hydrogen peroxide on GCE/Nafion/Ni electrode surface in alkaline medium</i>
	15.05 – 15.35	IT 18	Prof. A. J. Saleh Ahammed Jagannath University, Bangladesh <i>Title: Fabrication of electrode materials for sustainable energy applications</i>
	15.35 – 16.15	Oral Presentation (OP 05 – OP 08)	
SBE 101	<i>Chair: Prof. Suman De Sarkar, IISER, Kolkata Co-chair: Dr. Chandra Mohan, Physics, SRMIST, KTR</i>		
	14.00 – 14.35	KN 11	Dr. Pratima Agarwal Indian Institute of Technology Guwahati, Guwahati <i>Title: Dopant free c-Si heterojunction solar cells: Prospective and challenges</i>
	14.35 – 15.05	IT 11	Dr. Nurul Asyikeen Ab Mutalib Universiti Malaya, Malaysia <i>Title: Redox cycling amplification in microgap-based bipolar electrodes using an ion-selective membrane</i>

	15.05 – 15.35	IT 19	Prof. N. Gopalakrishnan National Institute of Technology, Tiruchirappalli <i>Title: Sn and Cr doped β-Ga₂O₃ Inter Digitated Electrode (IDE) gas sensors</i>
	15.35 – 16.15	Oral Presentation (OP 09 – OP 12)	
SBE 102	<i>Chair: Dr. Rabindra Nath Mahato, Jawaharlal Nehru University, New Delhi</i> <i>Co-chair: Dr. M. Bhaskar Chandra Behara, Physics, SRMIST, KTR</i>		
	14.00 – 14.35	KN 12	Dr. Suvankar Chakraverty Institute of Nano Science and Technology, Mohali <i>Title: Anomalous Shubnikov-De Haas oscillations and room temperature spin polarizations at oxide interfaces</i>
	14.35 – 15.05	IT 12	Prof. Hiroshi Masumoto Tohoku University, Japan <i>Title: Novel multi-functional properties by magnetic metal-ceramics nano-granular films</i>
	15.05 – 15.35	IT 20	Dr. J. Judith Vijaya Loyola College, Chennai <i>Title: Multifunctional pristine magnetic copper ferrite (CuFe₂O₄) and CuFe₂O₄/rGO binary nanocomposites: Electrochemical performance and heavy metals adsorption</i>
	15.35 – 16.15	Oral Presentation (OP 13 – OP 16)	
SBE 103	<i>Chair: Dr. Vanchiappan Aravindan, IISER, Tirupati</i> <i>Co-chair: Dr. P. Malar, Physics, SRMIST, KTR</i>		
	14.00 – 14.35	KN 13	Prof. Tomoaki Watanabe Meiji University, Japan <i>Title: Recent advance in photocatalyst for new hydrogen energy source</i>
	14.35 – 15.05	IT 13	Dr. V. Kameswara Rao University of Delhi, New Delhi <i>Title: Nano gold in immunosensing applications</i>
	15.05 – 15.35	IT 21	Dr. Easwaramoorthi Ramasamy ARCI, Hyderabad <i>Title: Materials and device concepts of large-area perovskite solar cells</i>
	15.35 – 16.15	Oral Presentation (OP 17 – OP 20)	

SBE 104	Chair: Dr. Sujit Das, Indian Institute of Science, Bangalore Co-chair: Dr. Meenal S. Deo, Physics, SRMIST, KTR		
	14.00 – 14.35	KN 14	Prof. Hiroki Kondo Kyushu University, Japan Title: Novel plasma-assisted syntheses of functional carbon nanomaterials, their mechanism, and applications
	14.35 – 15.05	IT 14	Dr. Bruce (Jun-Yu) Ou University of Southampton, UK Title: Nanomechanical metamaterials
	15.05 – 15.35	IT 22	Dr. Noor Kamalia Binti Abd Hamed Universiti Tun Hussein Onn Malaysia, Malaysia Title: Synergistic coupling {101}-{111} facet of N-doped TiO ₂ film enhance spatial charge separation for methylene blue photodegradation
	15.35 – 16.15	Oral Presentation (OP 21 – OP 24)	
SBE 201	Chair: Dr. Taketomo Sato, Hokkaido University, Sapporo, Japan Co-chair: Dr. C. Preferencial Kala, Physics, SRMIST, KTR		
	14.00 – 14.35	KN 15	Dr. Mrinmoy De Indian Institute of Science, Bangalore Title: Functionalization of different phases of 2D-MoS ₂ and related applications
	14.35 – 15.05	IT 15	Dr. Marlia Binti Morsin Universiti Tun Hussein Onn Malaysia (UTHM), Malaysia Title: Potential of gold nanobipyramids as an antifungal agent in biomedical and agricultural
	15.05 – 15.35	IT 23	Er. Puan Faezahana Binti Mohkhter Universiti Tun Hussein Onn Malaysia, Malaysia Title: The challenge in study of topography properties using Atomic Force Microscope (AFM)
	15.35 – 16.15	Oral Presentation (OP 25 – OP 28)	
SBE 202	Chair: Dr. Ravichandar Babarao, RMIT University, Australia Co-chair: Dr. K. Shadak Alee, Physics, SRMIST, KTR		
	14.00 – 14.35	KN 16	Prof. Neha Gandhi Manipal Institute of Technology, Manipal Title: Nanoparticle translocation across the lung surfactant film: Unravelling its mechanism at the molecular scale

	14.35 – 15.05	IT 16	Dr. T.J. Dhilip Kumar Indian Institute of Technology, Ropar <i>Title: Ab initio insights of 2D carbon lattices and doped analogues as alkali ion batteries materials</i>
	15.05 – 15.35	IT 24	Mr. Katsuhiko Nobeta Fuji Electronics, Japan <i>Title: SPS latest technology/application, production system and new model</i>
	15.35 – 16.15	Oral Presentation (OP 29 – OP 32)	
16.15 – 16.30	Tea Break		
16.30 – 17.30	Poster Presentation (PP 01 – PP 150) @ TPGA		
17.30 – 18.30	Cultural Program @ TPGA		
18.30 – 20.30	Dinner		

Day – 2
(February 27, 2024 - Tuesday)

Parallel Session 3			
TPGA Main Hall	<i>Chair: Prof. T. Serkan Kasirga, Bilkent University, Turkey</i> <i>Co - chair: Dr. S. Shanmugam, Chemistry, SRMIST, KTR</i>		
	09.00 - 09.40	PL 01	Dr. Judy Lee University of Surrey, UK <i>Title: The unique chemical and physical effect of ultrasound cavitation for material synthesis</i>
TPGA Mini Hall - 1	<i>Chair: Dr. Pavels Onufrijevs, Riga Technical University, Latvia</i> <i>Co - chair: Dr. C. Preferencial Kala, Physics, SRMIST</i>		
	09.00 - 09.40	PL 02	Prof. A. Ajayaghosh SRM Institute of Technology, KTR Campus, Chennai <i>Title: Molecular self-assembly and superhydrophobic coatings for energy saving application</i>
TPGA Mini Hall - 2	<i>Chair: Prof. Nobuyasu Adachi, Nagoya Institute of Technology, Japan</i> <i>Co - chair: Dr. Rohit Dir, Physics, SRMIST, KTR</i>		
	09.00 - 09.40	PL 03	Dr. Rohini Kitture Deputy Editor, Wiley, Pune <i>Title: Effective research publishing: Insider tips and techniques</i>
Prof. G. N. Ramachandran Hall	<i>Chair: Prof. Guillaume Maurin University of Montpellier, France</i> <i>Co - chair: Dr. M. Alagiri, Physics, SRMIST, KTR</i>		
	09.00 - 09.40	PL 04	Dr. Hyung Chul Ham Inha University, Republic of Korea <i>Title: Computational design of single/double atom catalysts for efficient electrochemical NH₃ production</i>
Parallel Session 4			
TPGA Mini Hall - 1	<i>Chair: Prof. Sebastian Lourduoss, KTH Royal Institute of Technology, Sweden</i> <i>Co-chair: Dr. T. Vijayakumar, Physics, SRMIST, KTR</i>		
	09.45 - 10.20	KN 17	Prof. Tomoaki Yamada Nagoya University, Japan <i>Title: Electro-optic effect of ferroelectric thin films: strain engineering and exploration of emerging materials</i>
	10.20 – 10.50	IT 25	Prof. Paul Joseph National Institute of Technology, Warangal <i>Title: Nano-dimensional films for novel devices – elucidating the role of hierarchy, architecture and doping strategies</i>

TPGA Mini Hall - 2	<i>Chair: Prof. Tomoya Ohno, Kitami Institute of Technology, Japan Co - chair: Dr. T. Kalaivani, Physics, SRMIST, KTR</i>		
	09.45 -10.20	KN 18	Dr. M. Sathish Central Electrochemical Research Institute, Karaikudi <i>Title: Fabrication of high energy supercapacitors using porous activated carbon: a journey from lab scale to prototype device</i>
	10.20 - 10.50	IT 26	Prof. Prasit Pattananuwat Chulalongkorn University, Thailand <i>Title: Development of bismuth-based materials for light-driven-assisted -charging supercapacitor</i>
SBE 101	<i>Chair: Prof. N. Gopalakrishnan, National Institute of Technology, Tiruchirappalli Co - chair: Dr.R.M. Hariharan, Physics, SRMIST, KTR</i>		
	09.45 - 10.20	KN 19	Prof. Mohamed Chehimi CNRS, France <i>Title: Agrowaste conversion to reactive and functional biochar for biomedical, environmental and energy applications</i>
	10.20 - 10.50	IT 27	Prof. Dr. Govind Gupta National Physical Laboratory, New Delhi <i>Title: Fabrication of gas sensors utilizing semiconductor heterostructures</i>
SBE 102	<i>Chair: Dr. Ursic Hana, Jožef Stefan Institute, Slovenia Co - chair: Dr. Angeline Little Flower, Physics, SRMIST, KTR</i>		
	09.45 -10.20	KN 20	Dr. N. Kamaraju IISER, Kolkata <i>Title: Antiferromagnetic topological insulator, MnBi₂Te₄ investigated using time domain THz spectroscopy and Pump-Probe Spectroscopy</i>
	10.20 - 10.50	IT 28	Prof. Bhagwati Prasad Indian Institute of Science, Bangalore <i>Title: Electric field control of magnetism: energy-efficient spintronics for AI and IOT applications</i>
SBE 103	<i>Chair: Prof. T. Tomoaki Watanabe, Meiji University, Japan Co - chair: Dr. K. Mani Rahulan, Physics, SRMIST, KTR</i>		
	09.45 -10.20	KN 21	Dr. C. N. Tharamani Indian Institute of Technology, Ropar <i>Title: Designing a greener energy conversion system for a sustainable future</i>

	10.20 - 10.50	IT 29	Dr. Mohd Faiz Bin Mohd Salleh Universiti Malaya, Malaysia <i>Title: Thermoelectric energy harvester for floating system application</i>
SBE 104	<i>Chair: Prof. Ramesh Chandra Mallik, Indian Institute of Science, Bengaluru</i> <i>Co - chair: Dr. P. Malar, Physics, SRMIST, KTR</i>		
	09.45 -10.20	KN 22	Prof. Ryo Teranishi Kyushu University, Japan <i>Title: Miniaturization of BaHfO₃ flux pinning centers in YBa₂Cu₃O_y superconducting thin film using solution-based metal organic deposition process</i>
	10.20 - 10.50	IT 30	Dr. T. S. Shyju Sathyabama Institute of Science and Technology, Chennai <i>Title: Earth abundant nitride thin films for energy applications</i>
SBE 201	<i>Chair: Dr. Mrinmoy De, Indian Institute of Science, Bangalore</i> <i>Co - chair: Dr. Sandeep Lakhera, Physics, SRMIST, KTR</i>		
	09.45 -10.20	KN 23	Prof. Chien-Hsiang Chang National Cheng Kung University, Taiwan <i>Title: Fabrication of microalgae oil drug delivery carriers</i>
	10.20 - 10.50	IT 31	Dr. Sujit Das Indian Institute of Science, Bangalore <i>Title: Manipulation of polar topology</i>
SBE 202	<i>Chair: Prof. Neha Gandhi, Manipal Institute of Technology, Manipal</i> <i>Co - chair: Dr. V. Ramesh, Physics, SRMIST, KTR</i>		
	09.45 -10.20	KN 24	Dr. Ravichandar Babarao RMIT University, Australia <i>Title: Accelerating the discovery of novel materials for a sustainable society: Integrating high throughput screening and machine learning</i>
	10.20 - 10.50	IT 32	Prof. Sangaraju Shanmugam DGIST, South Korea <i>Title: Electrocatalysts for sustainable carbon-free E-fuels</i>
10.50 - 11.05		Tea break	

Parallel Session 5			
TPGA Mini Hall - 1	<i>Chair: Prof. Sudakar Chandran, Indian Institute of Technology, Madras Co - chair: Dr. Elangovan Elamurugu, Physics, SRMIST, KTR</i>		
	11.05 - 11.35	IT 33	Prof. Hiroaki Satoh Shizuoka University, Japan <i>Title: Silicon-on-insulator photodiode with SP antenna and its applications to advanced light detection</i>
	11.35 - 12.05	Oral Presentation (OP 33 – OP 35)	
	<i>Chair: Prof. A. J. Saleh Ahammed, Jagannath University, Bangladesh Co - chair: Dr. Balaji, Mechanical, SRMIST, KTR</i>		
TGPA Mini Hall - 2	11.05 - 11.35	IT 34	Dr. Suttipong Wannapaiboon Synchrotron Light Research Institute, Thailand <i>Title: Synchrotron-based characterizations of electrocatalytic metal-organic frameworks and covalent organic framework-based solid electrolyte interphase for stabilizing anode of rechargeable batteries</i>
	11.35 - 12.05	Oral Presentation (OP 36 – OP 38)	
SBE 101	<i>Chair: Dr. Hiroki Kase, Shizuoka University, Japan Co - chair: Dr. B. Hariharan, Cintel, SRMIST, KTR</i>		
	11.05 - 11.35	IT 35	Dr. Suhana Binti Mohamed Sultan Universiti Teknologi Malaysia, Malaysia <i>Title: Hydrothermal optimization of one-dimensional zinc oxide nanostructure arrays for resistive based biosensors</i>
	11.35 - 12.05	Oral Presentation (OP 39 – OP 41)	
SBE 102	<i>Chair: Prof. Hiroshi Masumoto, Tohoku University, Japan Co - chair: Dr. G.T. Senthil Andavan, Chemistry, SRMIST, KTR</i>		
	11.05 - 11.35	IT 36	Dr. Rabindra Nath Mahato Jawaharlal Nehru University, New Delhi <i>Title: Structural, magneto-caloric and unusual magnetic behavior in the nanocrystalline manganites</i>
	11.35 - 12.05	Oral Presentation (OP 42 – OP 44)	

SBE 103	<i>Chair: Prof. Kenji Murakami, Shizuoka University, Japan</i> <i>Co - chair: Dr. Mathimalar, Physics, SRMIST, KTR</i>		
	11.05 - 11.35	IT 37	Dr. Vasundhara Mutta (Virtual) CSIR-Indian Institute of Chemical Technology, Hyderabad <i>Title: Synthesis mechanisms of chalcogenide nanostructures via aqueous based reflux method for enhanced room temperature thermoelectric performance</i>
	11.35 - 12.05	Oral Presentation (OP 45 – OP 47)	
SBE 104	<i>Chair: Dr. P. Malar, SRMIST, Chennai</i> <i>Co - chair: Dr. P.C. Karthika, Physics, SRMIST, KTR</i>		
	11.05 - 11.35	IT 38	Prof. Atsushi Nakamura Shizuoka University, Japan <i>Title: Visible light-driven Z-scheme photocatalyst of SnS₂/g-C₃N₄ for dye decomposition</i>
	11.35 - 12.05	Oral Presentation (OP 48 – OP 50)	
SBE 201	<i>Chair: Dr. Yuta Kubota, Tokyo Institute of Technology, Japan</i> <i>Co - chair: Dr. A. Tamiselvan, Physics, SRMIST, KTR</i>		
	11.05 - 11.35	IT 39	Dr. Ranita Basu Bhabha Atomic Research Centre, Mumbai <i>Title: Development of high-performance thermoelectric material in mid-and high temperature regime for viable power generators</i>
	11.35 - 12.05	Oral Presentation (OP 51 – OP 53)	
SBE 202	<i>Chair: Dr. Chi-cheng Chiu, National Cheng Kung University, Taiwan</i> <i>Co - chair: Dr.Subhojyoti Sinha, Physics, SRMIST, KTR</i>		
	11.05 - 11.35	IT 40	Dr. Sakura N. Takeda NARA Institute of Science and Technology, Japan <i>Title: Search of band bending potential curve consistent with the observed electronic states</i>
	11.35 - 12.05	Oral Presentation (OP 54 – OP 56)	
12.05 - 13.00		Poster Presentation (PP 151 – PP 300) @ TPGA	
13.00 - 14.00		Lunch Break	

Parallel Session 6			
	<p>Chair: <i>Dr. Arief Udhiarto, Universitas Indonesia, Indonesia</i> Co - chair: <i>Dr. P. Malar, Physics, SRMIST, KTR</i></p>		
	14.00 - 14.35	KN 25	<p>Prof. Shikha Varma (Virtual) Institute of Physics, Bhubaneswar Title: <i>Designing graphene quantum dots and their photo-response</i></p>
	14.35 - 16.15	Oral Presentation (OP 57 – OP 66)	
TGPA Mini Hall - 2	<p>Chair: <i>Dr. Maizatul Azrina Yaakob, Universiti Tun Hussein Onn Malaysia, Malaysia</i> Co - chair: <i>Dr. S. Chandramohan, Physics, SRMIST, KTR</i></p>		
	14.00 - 14.35	KN 26	<p>Prof. Senthilarasu Sundaram Teesside University, UK Title: <i>Nanocellulose from waste for energy applications</i></p>
	14.35 - 16.15	Oral Presentation (OP 67 – OP 76)	
SBE 101	<p>Chair: <i>Dr. Riyaz Ahmad Mohamed Ali, UTHM, Malaysia</i> Co - chair: <i>Dr. C. Prefrencial Kala, Physics, SRMIST, KTR</i></p>		
	14.00 - 14.35	KN 27	<p>Dr. Najla Fourati SATIE Laboratory, UMR CNRS, France Title: <i>Electrochemical sensors for sustainable agriculture: trends and challenges</i></p>
	14.35 - 16.15	Oral Presentation (OP 77 – OP 86)	
SBE 102	<p>Chair: <i>Dr. K. Mohan Kant, VNIT, Nagpur</i> Co - chair: <i>Dr. R. Annie Sujatha, Physics, SRMIST, KTR</i></p>		
	14.00 - 14.35	KN 28	<p>Dr. Shintaro Yasui Tokyo Institute of Technology, Japan Title: <i>κ-Al₂O₃-type ferroelectrics</i></p>
	14.35 - 16.15	Oral Presentation (OP 87 – OP 96)	

SBE 103	<i>Chair: Prof. S. Anandan, NIT, Tiruchirappalli</i> <i>Co - chair: Dr. K. Shanthi, Physics, SRMIST, KTR</i>		
	14.00 - 14.35	KN 29	Prof. Venkata Krishnan (Virtual) Indian Institute of Technology Mandi <i>Title: Green chemistry and heterogeneous catalysis for energy and environmental applications</i>
	14.35 - 16.15	Oral Presentation (OP 97 – OP 106)	
SBE 104	<i>Chair: Dr. Mohd Faiz Bin Mohd Salleh, Universiti Malaya, Malaysia</i> <i>Co - chair: Dr. Tusharbhai H Rana, Physics, SRMIST, KTR</i>		
	14.00 - 14.35	KN 30	Dr. Virgil Andrei (Virtual) University of Cambridge, United Kingdom <i>Title: Integrated light harvesting systems for scalable artificial photosynthesis</i>
	14.35 - 16.15	Oral Presentation (OP 107 – OP 116)	
SBE 201	<i>Chair: Dr. Elangovan Elamurugu, SRMIST, Chennai</i> <i>Co - chair: Dr. R. Ajay Rakesh, Physics, SRMIST, KTR</i>		
	14.00 - 14.35	KN 31	Prof. Muthupandian Ashokkumar (Virtual) University of Melbourne, Australia <i>Title: Ultrasonic synthesis of functional materials</i>
	14.35 - 16.15	Oral Presentation (OP 117 – OP 126)	
	<i>Chair: Dr. Jaivardhan Sinha, SRMIST, Chennai</i> <i>Co - chair: Dr. G. Bakiyaraj, Physics, SRMIST, KTR</i>		
	14.00 - 14.35	KN 32	Prof. Majdi Hochlaf (Virtual) Université Gustave Eiffel, France <i>Title: First principles methodologies for Probing interfacial interactions and applications</i>
	14.35 - 16.15	Oral Presentation (OP 127 – OP 136)	
16.15 - 16.30	Coffee Break		
16.30 - 17.30	Poster Presentation (PP 301 – PP 450) @ TPGA		
17.30 - 18.30	Cultural Program		
18.30 - 20.30	Dinner		

Day – 3

(February 28, 2024 - Wednesday)

Parallel Session 7			
TPGA Main Hall	<i>Chair: Prof. Mohamed Chehimi, CNRS, France Co-chair: Dr. Jaivardhan Sinha, Physics, SRMIST, KTR</i>		
	09.00 –09.40	PL 05	Dr. D. K. Aswal Bhabha Atomic Research Centre, Mumbai <i>Title: Utilization of uranium mill tailings for construction materials: A pathway for sustainable uranium mining and milling</i>
TPGA Mini Hall - 1	<i>Chair: Prof. Naoki Wakiya, Shizuoka University, Japan Co-chair: Dr. G. Maduraiveeran, Chemistry, SRMIST, Chennai</i>		
	09.00 –09.40	PL 06	Prof. Benoit Piro CNRS, France <i>Title: Printed electronics in sensors and medical devices</i>
TPGA Mini Hall - 2	<i>Chair: Dr. Takafumi Ishibe, Osaka University, Japan Co-chair: Dr. Elangovan Elamurugu, Physics, SRMIST, KTR</i>		
	09.00 –09.40	PL 07	Prof. Dr.-Ing. Olfa Kanoun Technische Universität Chemnitz, Germany <i>Title: Potential of electrode surface modification by nanomaterials for sensors with high performance</i>
Prof. G. N. Ramachandran Hall	<i>Chair: Prof. C. Clark Kendrick, Ateneo de Manila University, Philippines Co-chair: Dr. V. Kumaran, Chemistry, SRMIST, KTR</i>		
	09.00 –09.40	PL 08	Prof. Guillaume Maurin University of Montpellier, France <i>Title: Computational-aided development of MOF-based membranes for molecular separation</i>

Parallel Session 8			
TPGA Mini Hall - 1	<p><i>Chair: Dr. Catur Apriono, Universitas Indonesia, Indonesia</i> <i>Co-chair: Dr. C. Prefrencial Kala, Physics, SRMIST, KTR</i></p>		
	09.45 –10.20	KN 33	<p>Prof. Sebastian Lourdudoss KTH Royal Institute of Technology, Sweden <i>Title: Light emitting diodes and semiconductor lasers</i></p>
	10.20 –10.50	IT 41	<p>Dr. Tomy Abuzairi Universitas Indonesia, Indonesia <i>Title: Flash joules heating methods with high voltage capacitor for lab-scale graphene</i></p>
TPGA Mini Hall - 2	<p><i>Chair: Prof. Kunio Hayakawa, Shizuoka University, Japan</i> <i>Co-chair: Dr. R. Maheswaran, Physics, SRMIST, KTR</i></p>		
	09.45 –10.20	KN 34	<p>Prof. C Retna Raj Indian Institute of Technology, Kharagpur <i>Title: Aqueous rechargeable Zn batteries: anode and cathode engineering</i></p>
	10.20 –10.50	IT 42	<p>Dr. Vanchiappan Aravindan IISER, Tirupati <i>Title: Li-ion capacitors and recycling Li-ion batteries</i></p>
SBE 101	<p><i>Chair: Dr. Najla Fourati, SATIE Laboratory, UMR CNRS, France</i> <i>Co-chair: Dr. G. T. Senthil Andavan, Physics, SRMIST, KTR</i></p>		
	09.45 –10.20	KN 35	<p>Prof. Madhu Bhaskaran RMIT University, Australia <i>Title: Wearables sensors for health care and aged care</i></p>
	10.20 –10.50	IT 43	<p>Dr. Yuta Kubota Tokyo Institute of Technology, Japan <i>Title: Fabrication of CeO₂ and Cu₂O films for humidity and bending sensors by using solution processes based on thermochemical calculations</i></p>

SBE 102	<i>Chair: Prof. P.N. Santhosh, IIT Madras, Chennai</i> <i>Co-chair: Dr. T. Maiyalagan, Chemistry, SRMIST, KTR</i>		
	09.45 –10.20	KN 36	Dr. Palani Iyamperumal Anand Indian Institute of Technology, Indore <i>Title: A novel thin film based micro-3D printer for printing microscale structures for MEMS applications</i>
	10.20 –10.50	IT 44	Dr. Tetsuo Oikawa JEOL, Japan <i>Title: Electron Microscopy</i>
SBE 103	<i>Chair: Dr. Hiromu Hamasaki, Osaka University, Japan</i> <i>Co-chair: Dr. AVM Manikandan, ECE, SRMIST, KTR</i>		
	09.45 –10.20	KN 37	Dr. Ajay Singh Bhabha Atomic Research Centre, Mumbai <i>Title: Defect and interface engineering to realize high performance thermoelectric materials and power generators</i>
	10.20 –10.50	IT 45	Prof. Nji Raden Poespawati Universitas Indonesia, Indonesia <i>Title: Effect of carbon electrode annealing temperature on perovskite solar cells</i>
SBE 104	<i>Chair: Dr. Bruce (Jun-Yu) Ou, University of Southampton, UK</i> <i>Co-chair: Dr. Piyush Sharma, Mechanical, SRMIST, KTR</i>		
	09.45 –10.20	KN 38	Dr. Takafumi Ishibe Osaka University, Japan <i>Title: Simultaneous control of carrier and phonon transports in nanostructured thermoelectric films with the controlled interfaces</i>
	10.20 –10.50	IT 46	Dr.-Ing. Vincent Linsesis Messgerate GmbH <i>Title: Thermoelectric metrology: A comprehensive review from a manufacturer's perspective</i>
SBE 201	<i>Chair: Dr. Ionut Topala, Alexandru Ioan Cuza University of Iasi, Romania</i> <i>Co-chair: Dr. J. Chandra dass, Automobile, SRMIST, KTR</i>		
	09.45 –10.20	KN 39	Prof. S. Sindhu Birla Institute of Technology and Science, Pilani <i>Title: Advancing green technology exploring polymer based electrochromic windows to sustainable energy efficiency</i>
	10.20 –10.50	IT 47	Dr. D. Durgalakshmi Anna University, Chennai <i>Title: Functional nanomaterials for theranostic applications</i>

SBE 202	<i>Chair: Dr. T.J. Dhilip Kumar, Indian Institute of Technology, Ropar Co-chair: Dr. M. Prakash, Chemistry, SRMIST, KTR</i>		
	09.45 –10.20	KN 40	Prof. Katarzyna Krukiewicz Silesian University of Technology, Poland <i>Title: Modulating cell-surface interactions through electroactive materials</i>
	10.20 –10.50	IT 48	Dr. Mahesh Kumar Ravva SRM University-AP, Amaravati <i>Title: Computational insights into metal corrole complexes as single atoms catalysts for electrochemical hydrogen evolution reactions</i>
10.50 - 11.05		Tea break	
Parallel Session 9			
TPGA Mini Hall - 1	<i>Chair: Prof. P. Rajamalli, Indian Institute of Science, Bangalore Co-chair: Dr. A. Geetha, Physics, SRMIST, KTR</i>		
	11.05 –11.35	IT 49	Dr. Arief Udhiarto Universitas Indonesia, Indonesia <i>Title: Analysis of performance degradation in single-layer OLEDs fabricated using vacuum-free lamination methods</i>
	11.35 –11.55	Oral Presentation (OP 137 – OP 138)	
	<i>Chair: Dr. Soorathep Kheawhom Chulalongkorn University, Thailand Co-chair: Dr. K. Shadak Alee, Physics, SRMIST, KTR</i>		
TGPA Mini Hall - 2	11.05 –11.35	IT 50	Prof. R. Kothandaraman Indian Institute of Technology Madras, Chennai <i>Title: Mechanistic Investigation on the Capacity Loss in Phosphonated Anthraquinone Based Redox Flow Battery</i>
	11.35 –11.55	Oral Presentation (OP 139 – OP 140)	
SBE 101	<i>Chair: Prof. Madhu Bhaskaran RMIT University, Australia Co-chair: Dr. Meenal S Deo, Physics, SRMIST, KTR</i>		
	11.05 –11.35	IT 51	Prof. Mei-Jywan Syu National Cheng Kung University, Taiwan <i>Title: Fabrication of magnetic nanoclusters modified gold electrode for the impedimetric detection of serum albumin</i>
	11.35 –11.55	Oral Presentation (OP 141 – OP 142)	

SBE 102	<p>Chair: Dr. Baskar Bhera, SRMIST, KTR Co-chair: Dr. T. Vijayakumar, Physics, SRMIST, KTR</p>		
	11.05 –11.35	IT 52	<p>Dr. Ir. Retno Wigajatri Purnamaningsih Universitas Indonesia, Indonesia Title: A visible light wide angle optical divider based on III/nitride for under water application</p>
	11.35 –11.55	<p>Oral Presentation (OP 143 – OP 144)</p>	
SBE 103	<p>Chair: Dr. Assayidatul Laila Binti Nor Hairin, International Islamic University, Malaysia Co-chair: Dr. R. Annie Sujatha, Physics, SRMIST, KTR</p>		
	11.05 –11.35	IT 53	<p>Dr. Vibha Saxena Bhabha Atomic Research Centre, Mumbai Title: Langmuir-Blodgett technique: a versatile method to prepare high quality and ordered ultra-thin films for various applications</p>
	11.35 –11.55	<p>Prof. Shoji Kaneko SPD laboratory, Japan</p>	
SBE 104	<p>Chair: Dr. Atsushi Nakamura, Shizuoka University, Japan Co-chair: Dr. J. Chandra Dass, Automobile, SRMIST, KTR</p>		
	11.05 –11.35	IT 54	<p>Dr. N. Krishna Chandar Vellore Institute of Technology, Vellore Title: Nanostructured manganese oxide based two dimensional nanocomposites for the removal of organic pollutants</p>
	11.35 –11.55	<p>Oral Presentation (OP 145 – OP 146)</p>	
SBE 201	<p>Chair: Dr. Ranita Basu, Bhabha Atomic Research Centre, Mumbai Co-chair: Dr.M. Kovendhan, Physics, SRMIST, KTR</p>		
	11.05 –11.35	IT 55	<p>Prof. M. Arivanandhan Anna University, Chennai Title: Growth of $Si_{1-x}Ge_x$ ($0 < x < 1$) alloy semiconductor under rapid cooling</p>
	11.35 –11.55	<p>Oral Presentation (OP 147 – OP 148)</p>	

SBE 202	<i>Chair: Dr. Sakura N. Takeda, NAIST, Japan</i>		
	<i>Co-chair: Dr. Sandeep K lahera, SRMIST, KTR</i>		
	11.05 –11.35	IT 56	Prof. Sulaiman Wadi Harun Universiti Malaya, Malaysia <i>Title: Nanomaterial applications in ultrafast photonics</i>
	11.35 –11.55	Oral Presentation (OP 149 – OP 150)	
11.55 –13.00		Lunch Break	
13.00 –19.30		Sight Seeing (Trip to Mahabalipuram)	
19.30 – 21.00		Conference Banquet Dinner @ Downtown Building, Mahindra World City near Singaperumal Kovil	

Day - 4
 (February 29, 2024 - Thursday)

Parallel Session 10			
TPGA Main Hall	<i>Chair: Prof. Benoit Piro, CNRS, France</i> <i>Co-chair: Dr. M. Alagiri, Physics, SRMIST, KTR</i>		
	09.00-09.40	PL 09	Prof. Aziz Amine Hassan II University of Casablanca, Morocco <i>Title: Recent advances in carbon nanomaterials-based electrochemical sensors and biosensors</i>
TPGA Mini Hall - 1	<i>Chair: Prof. Toru Aoki, Shizuoka University, Japan</i> <i>Co-chair: Dr. G. Bakyaraj, Physics, SRMIST, KTR</i>		
	09.00 – 09.40	PL 10	Prof. Kim Daasbjerg Aarhus Univesrity, Denmark <i>Title: Use of manganese bipyridine complexes and single-atom catalysts in the electroreduction of carbon dioxide</i>
TPGA Mini Hall - 2	<i>Chair: Prof. Hiroya Ikeda, Shizuoka University, Japan</i> <i>Co-chair: Dr. R. Maheswaran, Physics, SRMIST, KTR</i>		
	09.00 – 09.40	PL 11	Prof. Mohamed Jouini CNRS, France <i>Title: CO₂ reduction on dye sensitized NiO photocathodes decorated with palladium nanoparticles</i>
Prof. G. N. Ramachandran Hall	<i>Chair: Prof. Mohd Khairul Bin Ahmad, UTHM, Malaysia</i> <i>Co-chair: Dr. G. T. Senthil Andavan, Chemistry, SRMIST, KTR</i>		
	09.00 – 09.40	PL 12	Prof. Shahzada Ahmad University of Basque Country Science Park, Spain <i>Title: Engineering the emerging semiconductors for thin-film photovoltaics</i>

Parallel Session 11			
TPGA Mini Hall - 1	Chair: Prof. Yasuhiro Hayakawa, Shizuoka University, Japan Co-chair: Dr. Maduraiveeran, chemistry, SRMIST, KTR		
	09.45 – 10.20	KN 41	Prof. Sudakar Chandran Indian Institute of Technology, Madras Title: <i>Sublattice distortion controlled electronic and optical properties of $Cs_2B'B''X_6$ ($B' = Ag, Na; B'' = Bi, In; X = Cl, Br$) double perovskites</i>
	10.20 – 10.50	IT 57	Dr.P. Koteswara Rao Peta University of Delhi, New Delhi Title: <i>Growth and defects challenges of wide bandgap electronic materials: Applications</i>
TPGA Mini Hall - 2	Chair: Prof. R. Kothandaraman, IIT Madras, Chennai Co-chair: Dr.C. Siva, Physics, SRMIST, KTR		
	09.45 – 10.20	KN 42	Prof. Tomoya Ohno Kitami Institute of Technology, Japan Title: <i>Control of the coating structure on a cathode particle for Li-ion battery</i>
	10.20 – 10.50	IT 58	Prof. Kenji Murakami Shizuoka University, Japan Title: <i>Research on the Energy Conversion Devices: Focusing on Solar Cells and Mechanoluminescence</i>
SBE 101	Chair: Dr. Chao-Wei Huang, National Cheng Kung University, Taiwan Co-chair: Dr.P.C. Karthika, Physics, SRMIST, KTR		
	09.45 – 10.20	KN 43	Prof. Toru Aoki Shizuoka University, Japan Title: <i>Single crystal diamond photon-counting X-ray imaging device</i>
	10.20 – 10.50	IT 59	Dr. Hiroki Kase Shizuoka University, Japan Title: <i>Spatial representation of multi-energy 3D X-ray CT using mixed reality for nondestructive testing</i>

SBE 102	<p><i>Chair: Dr. Vibha Saxena, BARC, Mumbai</i> <i>Co-chair: Dr. R. Annie Sujatha, Physics, SRMIST, KTR</i></p>		
	09.45 – 10.20	KN 44	<p>Prof. Nobuyasu Adachi Nagoya Institute of Technology, Japan <i>Title: Ferromagnetic properties of zinc and magnesium ferrite prepared by MOD technique</i></p>
	10.20 – 10.50	IT 60	<p>Dr. Assayidatul Laila Binti Nor Hairin International Islamic University, Malaysia <i>Title: Upgraded recycling of cast-iron scrap chips towards Fe-based thermoelectric materials for waste-heat energy harvesting</i></p>
SBE 103	<p><i>Chair: Dr. Naonori Sakamoto, Shizuoka University, Japan</i> <i>Co-chair: Dr. V. Kathirvel, Physics, SRMIST, KTR</i></p>		
	09.45 – 10.20	KN 45	<p>Dr. Ch. Subrahmanyam Indian Institute of Technology, Hyderabad <i>Title: Nonthermal plasma assisted CO₂ conversion to value-added chemicals</i></p>
	10.20 – 10.50	IT 61	<p>Dr. Srinivasan Anandan ARCI, Hyderabad <i>Title: Indigenous materials for energy storage applications: From lab innovations to semi-pilot scale production</i></p>
SBE 104	<p><i>Chair: Dr. T. S. Shyju, Sathyabama Institute of Science and Technology, Chennai</i> <i>Co-chair: Dr. Trilochan Sahoo, Physics, SRMIST, KTR</i></p>		
	09.45 – 10.20	KN 46	<p>Prof. Taketomo Sato Hokkaido University, Sapporo, Japan <i>Title: Photoelectrochemical etching of III-nitride semiconductors for nanostructure fabrication</i></p>
	10.20 – 10.50	IT 62	<p>Dr. Maneesh Chandran National Institute of Technology, Calicut. <i>Title: Template assisted sol-gel synthesis of BiFeO₃ hollow tubes</i></p>

SBE 201	<p>Chair: Prof. Muhammet S. Toprak, KTH Royal Institute of Technology, Stockholm, Sweden Co-chair: Dr. Gopirajan, Physics, SRMIST, KTR</p>		
	09.45 – 10.20	KN 47	<p>Prof. S. Balakumar University of Madras, Chennai. Title: Productizing nanostructured functional bioactive materials for advanced healthcare hemostats and tissue regenerative aids</p>
	10.20 – 10.50	IT 63	<p>Dr. E.V.A. Premalal University of Sri Jayewardenepura, Sri Lanka. Title: Development of Chemical Vapor Deposition Technology for the Synthesis of Carbon Nanotube and Nanofiber Forest</p>
SBE 202	<p>Chair: Dr. Nurul Asyikeen Ab Mutalib, Universiti Malaya, Malaysia Co-chair: Dr. Venkatesh kumara mangalam, Chemistry, SRMIST, KTR</p>		
	09.45 – 10.20	KN 48	<p>Prof. Kazushi Ikeda NAIST, Japan Title: Machine learning approaches to materials</p>
	10.20 – 10.50	IT 64	<p>Dr. Shamima Hussain UGC-DAE CSR, Kalpakkam</p>
10.50 - 11.05	Tea break		
Parallel Session 12			
TPGA Mini Hall - 1	<p>Chair: Dr.P. Koteswara Rao, University of Delhi, New Delhi Co-chair: Dr. Sandepan Roy, Mechanical, SRMIST, KTR</p>		
	11.05 – 11.35	IT 65	<p>Dr. Darius Gailevicius Vilnius University, Lithuanian Title: 3D printed phase retarders</p>
	11.35 – 11.55	Oral Presentation (OP 151 – OP 152)	

TGPA Mini Hall - 2	<p>Chair: Dr. M. Sathish, Central Electrochemical Research Institute, Karaikudi. Co-chair: Dr. Meenal S. Deo, Physics, SRMIST, KTR</p>		
	11.05 – 11.35	IT 66	<p>Dr. R. Ramesh Periyar University, Salem Title: Metal-organic framework derived 3D hierarchical metal oxides for high energy density supercapacitor application</p>
	11.35 – 11.55	Oral Presentation (OP 153 – OP 154)	
SBE 101	<p>Chair: Dr. Suhana Binti Mohamed Sultan, Universiti Teknologi Malaysia, Malaysia Co-chair: Dr. Anbumozhi Angayarkanni, Physics, SRMIST, KTR</p>		
	11.05 – 11.35	IT 67	<p>Prof. Hiroya Ikeda Shizuoka University, Japan Title: Wearable thermoelectric power generator for self-powered physiological sensor</p>
	11.35 – 11.55	Oral Presentation (OP 155 – OP 156)	
SBE 102	<p>Chair: Prof. Kazushi Ikeda, NAIST, Japan Co-chair: Dr. A. Tamil selvan, Physics, SRMIST, KTR</p>		
	11.05 – 11.35	IT 68	<p>Dr. Shailesh Narain Sharma National Physical Laboratory, New Delhi Title: Nanotechnology advancements for sustainable energy: Addressing critical materials challenges</p>
	11.35 – 11.55	Oral Presentation (OP 157 – OP 158)	
SBE 103	<p>Chair: Dr. Ch. Subrahmanyam, Indian Institute of Technology, Hyderabad Co-chair: Dr. Angeline Little Flower, Physics, SRMIST, KTR</p>		
	11.05 – 11.35	IT 69	<p>Dr. Manjusha Battabyal ARCI, Chennai Title: Nanostructured antimonides for waste heat harvesting</p>
	11.35 – 11.55	Oral Presentation (OP 159 – OP 160)	

			<p>Chair: Dr. Taketomo Sato, Hokkaido University, Sapporo, Japan Co-chair: Dr. Shobana, Maths, SRMIST, KTR</p>
SBE 104	11.05 – 11.35	IT 70	<p>Dr. Ranu Bhat Bhabha Atomic Research Centre, Mumbai Title: Designing high efficiency Bi-Te thermoelectric power generators: challenges and approaches</p>
	11.35 – 11.55	Oral Presentation (OP 161 – OP 162)	
			<p>Chair: Dr. E.V.A. Premalal, University of Sri Jayewardenepura, Sri Lanka Co-chair: Dr. Chandra dass, Automobiles, SRMIST, KTR</p>
SBE 201	11.05 – 11.35	IT 71	<p>Dr. P. Prathap National Physical Laboratory, New Delhi Title: Atomic layer deposition of oxide layers for efficient passivation of silicon solar cell surface</p>
	11.35 – 11.55	Oral Presentation (OP 163 – OP 164)	
			<p>Chair: Dr. Maheswaran, Physics, SRMIST, Chennai</p>
SBE 202	11.05 – 11.35	IT 72	<p>Dr. Biplab Sanyal Uppsala University, Sweden Title: Understanding of Magnetism in 2D materials by First Principles Theory</p>
	11.35 – 11.55	Oral Presentation (OP 165 – OP 166)	
11.55 – 12.55		Poster Presentation (PP 451 – PP 600)	
12.55 – 14.00		Lunch Break	

Parallel Session 13			
TGPA Mini Hall - 1	Chair: <i>Dr. Darius Gailevicius, Vilnius University, Lithuanian</i> Co-chair: <i>Dr. R. M. Hariharan, Physics, SRMIST, KTR</i>		
	14.00 – 14.35	KN 49	Prof. Daniel Moraru Shizuoka University, Japan Title: <i>Quantum Tunneling Functionalities based on Silicon Nanomaterials and Nanodevices</i>
	14.35 – 15.05	IT 73	Prof. Yasuhiro Hayakawa Shizuoka University, Japan Title: <i>Effect of gravity on the growth of InGaSb alloy semiconductor crystals</i>
TGPA Mini Hall - 2	Chair: <i>Dr. R. Ramesh, Periyar University, Salem</i> Co-chair: <i>Dr. S. Mathimalar, Physics, SRMIST, KTR</i>		
	14.00 – 14.35	KN 50	Prof. Kunio Hayakawa Shizuoka University, Japan Title: <i>Electro-thermo-mechanical finite element analysis on SPS sintering process of zirconia part</i>
	14.35 – 15.05	IT 74	Technical Talk
SBE 101	Chair: <i>Prof. Aziz Amine, Hassan II University of Casablanca, Morocco</i> Co-chair: <i>Dr. Shubojyothi Sinha, Physics, SRMIST, KTR</i>		
	14.00 – 14.35	KN 51	Prof. Jun Kondoh Shizuoka University, Japan Title: <i>Finite element analysis of surface acoustic wave on 36YX-LiTaO₃/36Y90X-quartz structure for sensor application</i>
	14.35 – 15.05	IT 75	Dr. Riyaz Ahmad Mohamed Ali Universiti Tun Hussein Onn Malaysia, Malaysia Title: <i>Nanoplasmonic micro-structured chip for single cell sensing application</i>
SBE 102	Chair: <i>Dr. Mohd Faiz Bin Mohd Salleh, Universiti Malaya, Malaysia</i> Co-chair: <i>Dr. M. Kovendhan, Physics, SRMIST, KTR</i>		
	14.00 – 14.35	KN 52	Prof. P.N. Santhosh Indian Institute of Technology, Madras, Title: <i>Competing magnetic interactions and exchange bias behaviour in complex oxides materials</i>
	14.35 – 15.05	IT 76	Technical talk

<p>Chair: Prof. Kim Daasbjerg, Aarhus Univesrsity, Denmark Co-chair: Dr. Karthika, Physics, SRMIST, KTR</p>			
SBE 103	14.00 – 14.35	KN 53	<p>Prof. Yueh-Heng Li National Cheng Kung University, Taiwan Title: Iron particles: Applications in aerospace and energy industries</p>
	14.35 – 15.05	IT 77	<p>Prof. S. Anandan National Institute of Technology, Tiruchirappalli Title: Current scenario of dye-sensitized solar cells - modifications and large-scale production</p>
<p>Chair: Prof. Shahzada Ahmad University of Basque Country Science Park, Spain Co - chair: Dr. K. Santhi, Physics, SRMIST, KTR</p>			
SBE 104	14.00 – 14.35	KN 54	<p>Dr. Hiromu Hamasaki Osaka University, Japan Title: Electrical conductivity and Seebeck coefficient of a single contact between carbon nanotubes</p>
	14.35 – 15.05	IT 78	<p>Prof. Te-Wei Chiu National Taipei University of Technology, Taiwan Title: Synthesis and versatile applications of Cu-based delafossite compounds</p>
<p>Chair: Prof. S. Balakumar, University of Madras, Chennai Co-chair: Dr. Maduraiveeran, Chemistry, SRMIST, KTR</p>			
SBE 201	14.00 – 14.35	KN 55	<p>Dr. Naonori Sakamoto Shizuoka University, Japan Title: Control of encapsulated chemical species into cage-structured crystal $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$</p>
	14.35 – 15.05	IT 79	Technical talk
<p>Chair: Prof. Sulaiman Wadi Harun, Universiti Malaya, Malaysia Co-chair: Dr. Jaivardhan Sinha, Physics, SRMIST, KTR</p>			
SBE 202	14.00 – 14.35	KN 56	<p>Prof. Yuichi Sakumura NARA Institute of Science and Technology, Japan Title: Derivation of nonlinear dynamics of silicon structure under indium adsorption</p>
	14.35 – 15.05	IT 80	<p>Dr. Nasrul Anuar Bin Abd Razak Universiti Malaya, Malaysia Title: Recycling of polyethylene terephthalate wastes for prosthetic applications</p>
15.05 – 16.00		Closing Ceremony @ TPGA	
16.00 – 16.20		High Tea	



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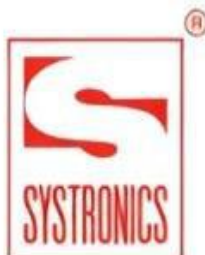
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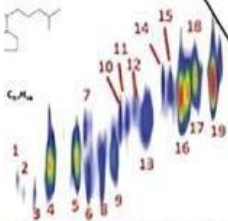


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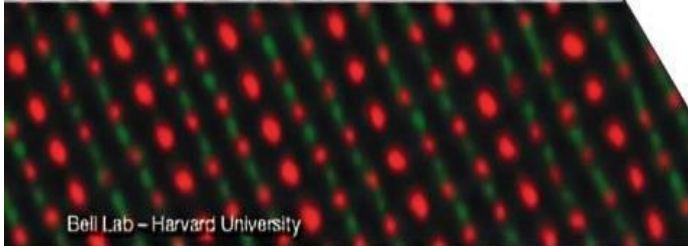
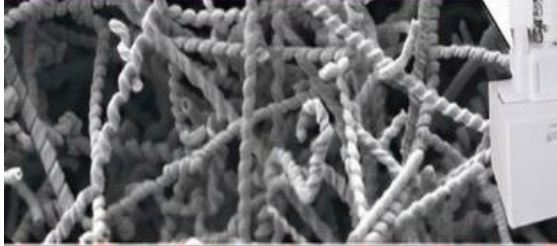


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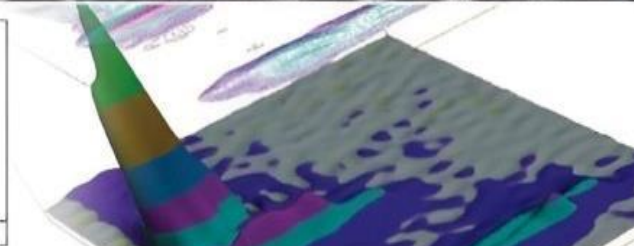
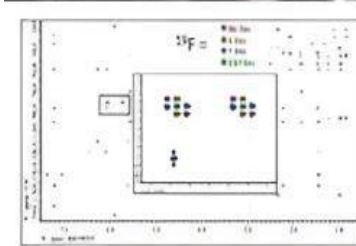
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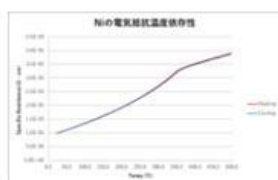


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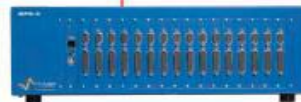
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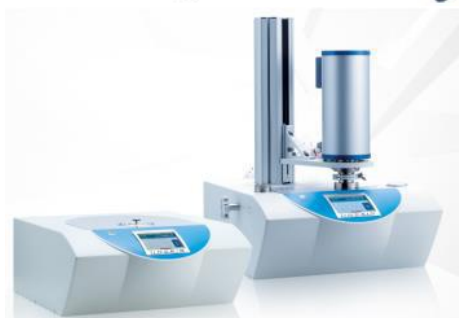


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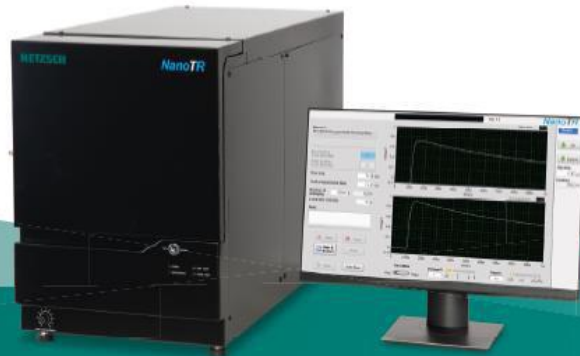
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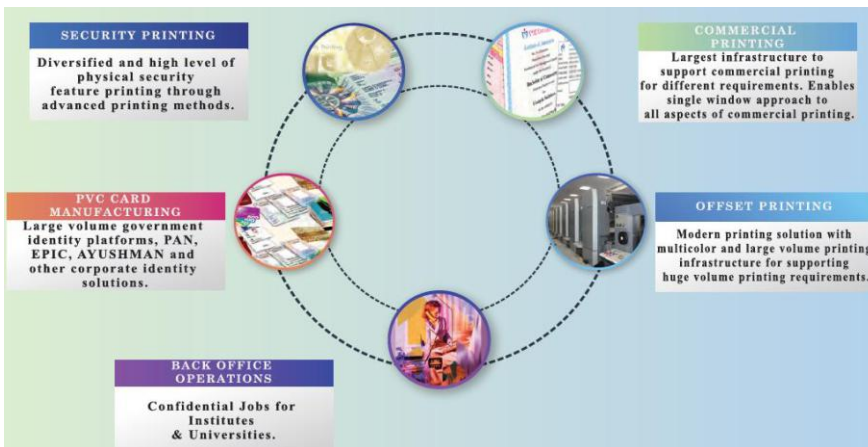


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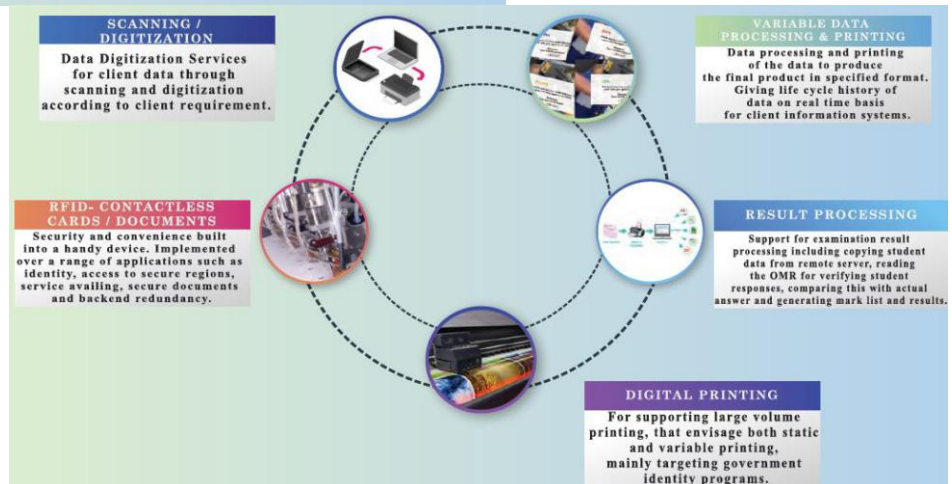


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