



European Materials Research Society

2026 Spring Meeting

May 25 - 29
Strasbourg Convention Centre

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SYMPOSIUM W

Synthesis and characterization of functional nanocomposite materials

Oral sessions : [ETOILE A - FIRST FLOOR](#)

Poster sessions : [ETOILE - FIRST FLOOR](#)

Symposium Organizers:

[Aurora RIZZO](#), University of Salento - CNR NANOTEC, Italy

[Raghvendra Singh YADAV \(Main organizer\)](#), Tomas Bata University in Zlin, Czech Republic

[Tayebeh AMERI](#), Kiel University, Germany

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Monday May 25
W01 2 D Nanocomposites

Chairperson(s): THOMPSON Barry
 YADAV Raghvendra singh

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- 08:30 1839 Graphene–Nanoparticle Hybrid Nanocomposites: Multifunctional Materials for Advanced Device and Textile Applications
CURRI Maria Lucia (Invited)
- 09:00 89 Effect of crack-graphene length ratio to mechanical properties and deformation behavior of single-crystalline NiFeCr medium-entropy alloy
BUI Thi-Xuyen
- 09:15 1373 Directional Moisture-Wicking Janus Graphene Fiber Nonwovens for Synergistic Evaporative Cooling and Ultrafast Joule Heating
HAN Yongkang
- 09:30 1889 Nonlinear Conductive Graphene Composites for Linear Pressure Sensing with Voltage-Driven Thermal Compensation
LUO Feng
- 09:45 3071 2D Materials for Energy and Electro-Refining
HAN Xiuxiu

Monday May 25
W02 Luminous Nanocomposites

Chairperson(s): CURRI Maria lucia
 RIZZO Aurora

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- 10:30 1669 Tunable Structural Color Microparticles via Block Copolymer Self-Assembly in Emulsions: From Coatings to Magnetically Addressable Photonics
DODERO Andrea (Invited)
- 11:00 2495 Brightly Emissive Nontoxic I–III–VI Quantum Dots Embedded in Organic Matrices
GHIMIRE Sushant
- 11:15 2042 Raman Spectroscopy and Mapping of Hierarchical La-Doped ZnO–Graphene Nanostructured Micropowders: Graphene Concentration-Driven Local Vibrational Heterogeneity
PACHIU Cristina
- 11:30 1555 Collective Rhythms and Ion-mediated Communication in Light-Driven Micromotors through Dynamic Redox Feedback
CHEN Yufen
- 11:45 1714 Eu³⁺ Activated Ba₃V₂O₈ Phosphors as a Dual-Functional Platform for Optical Thermometry and Radiation Dosimetry
NOLASTNAME Tejas

Monday May 25
W03 Nanocomposites for Energy

Chairperson(s): AMERI Tayebbeh
 DODERO Andrea

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- 14:30 471 Enhancing the Mechanical Robustness of Conjugated Polymer-Based Composites for Energy Conversion and Storage
THOMPSON Barry (Invited)
- 15:15 2046 Soft plasma PECVD growth of bilayer MoS₂
BISHT Prashant
- 15:30 2617 Designing Visible-Emitting Rare Earth Complexes for sensing and solar energy conversion.
BOTTARO Gregorio
- 15:45 1392 Biocompatible Copper Sulfide-Based Conductive Nano-inks for Screen-Printed Photodetectors and Wearable Electronics Applications
CHANDRAN Neeli

Monday May 25
W01 Poster session 1

[View session abstracts](#)

- 16:30 01_10 Spectrally Narrow Band-Edge Emission from Weakly Confined AgInS₂-Based Nanocrystals
BANG Jiwon
- 16:30 02_1036 Optically switched transient amyloid-like fibrils for antibiotic degradation
BHAUMIK Shubhra Kanti
- 16:30 03_1039 Optically switched transient amyloid-like fibrils for antibiotic degradation
BHAUMIK Shubhra Kanti
- 16:30 04_1111 Advanced Luminescent Security Inks: Achieving High Stability and Selective Excitation for Strategic Anti-Counterfeiting
PRADHAN Payal Priyadarshini
- 16:30 06_1149 Mechanistic Insights into Long-Persistent Luminescence of Tb³⁺/Sm³⁺ Co-Doped Sr₂Ga₂GeO₇ for Latent Fingerprint Visualization and Anti-Counterfeiting
AYOUB Irfan Ayoub
- 16:30 07_1171 Influence of rare-earth doping on the structural and morphological properties of ZnO for potential EMI shielding application
BRINCOVEANU Oana
- 16:30 08_1223 Developing Efficient Flexible LiG/ZnO nanoparticle Hybrid Photocatalysts for Efficient Methylene Blue Degradation
MEGHA Megha
- 16:30 09_1394 Synergetic OD/2D Carbon Nanohybrids and Polycaprolactone-Modified Phenolic Foams for High-Performance flame-retardant and thermal-insulating properties
ABEBAW Tinsae Messay
- 16:30 10_1404 Shell Thickness Dependence on Hot-Carrier Utilization and Hydrogen Gas Sensing of Pd-Au(alloy)@ZnO Core-Shell Nanoparticles Under Visible Light
Kim Dong-Seog

16:30 11_1437 Highly Thermally Conductive Biphasic Solid-Liquid Composites for Thermal Interface Material Applications
PARK Seoyun

16:30 12_1443 A comparative study of lattice dynamics in RuO₂ and TiO₂
KUMAWAT Reshma

16:30 13_1450 All-Printed Liquid Metal-Based Strain Sensors Enabling High Signal Acquisition Capability and Long-Term Reliability
KIM Leeju

16:30 14_1754 Cluster-glass like behavior and magnetocaloric response in Cr substituted lithium spinel manganate
NANDI Palash

16:30 15_1791 Surface functionalization based on GABA and Taurine nanocoating to prevent bacterial or cellular adhesion
FANGANO Giorgia

16:30 16_180 Structural Formation and Proton Transport in Zwitterion-Modified Cellulose Nanofiber Membranes
Han Hyuntaek

16:30 17_2057 3D Morphology characterization of nano-structured network surface with AI-based data processing
PARK J

16:30 18_2173 A supramolecular system based on β -cyclodextrin-aurine carbon nanodots: synthesis and characterization
Lombardo Corinna

16:30 19_2188 Breathable Graphene Oxide-Polymer Composite Membranes with Two-Step Barrier Mechanism against Nerve Agents
KIM Hyungjun

16:30 20_2229 Hydrogen Gas Sensing Performance of PdAu(alloy)/ZnO/rGO nanocomposites
SONG Hee-Ju

16:30 21_2286 Calcination Temperature Driven Modulation of Structural, Optical, and Electrochemical Properties of Hydrothermally Synthesised SnO₂ Nanoparticles
KUMAR Pankaj

16:30 22_2309 Dual-function GO composite membranes for detoxification and protection against nerve agents
LEE Yubeen

16:30 23_2319 Origin of the room temperature ferroelectricity in perovskite rare-earth chromate compound
DAS Arghyadeep

16:30 24_237 N-Acetyl-L-Cysteine capped CdS core and CdS/ZnS core-shell Quantum Dots for Hg²⁺ ion sensing, visible light photocatalysts and phosphor converted LED applications
KALITA Mitul

16:30 25_2416 Fluffy Pine Needle Nanostructures with Solid-Liquid-gas Interfaces for Self-Oxygen-Enriching Photocatalysis
KIM Kayoung

16:30 26_2424 Collinear Magnetic Phases in doped-CaFe₂O₄
PARIA Samyabrata

16:30 27_2514 Depth-resolved chemical characterization of multi-component oxide layers formed on a Ti-based alloy
GRZADZIEL Lucyna

16:30 28_2540 Correlation between antisite defects and intertwined magnetic phases in layered topological antiferromagnets
FIRDOSH Nazma

16:30 29_2548 Direct growth of high quality InP nanocrystals on graphene substrates via moiré epitaxy
PIAZZA Valerio

16:30 30_2579 Development of High Performance and Robust Next Generation TPU/Benzoxazine/MXene Nanofibrous Composite Membranes for Oil - Water Separation Applications
TOKER Sudenaz

16:30 31_2667 Controllable nanoscale straining of MoS₂: a semi-empirical approach
CANTELE Matilde

16:30 32_2690 Direct Laser Writing of Nanocomposites for Tuneable Dual-Mode Colour
NOLAN Emma

16:30 33_2717 Investigating the Influence of Annealing on the Electrical Transport and dielectric Properties in MoS₂
NANDI Soumya

16:30 34_2728 Development of Plant Extract Modified Silane Coatings for Corrosion Protection of 23MnB4 Steel
KOCA Nusret Yigit

16:30 35_293 A Complementary Multi-Modal Characterization of Power SiC MOSFETs Using Scanning Acoustic Microscopy, X-ray Imaging, and Electron Microscopy
LEE Ju Ho

16:30 36_3107 Engineering of the optical and electrical properties of combined ZnO and Carbon Dot films for application in optical photodetectors
TSAMIS Christos

16:30 37_3152 Laser-processed oxide coatings for the biofunctional surface modification of Mg-based implants
Irimiciuc Stefan

16:30 38_3253 Synthesis and Synchrotron-based characterisations of functional nanocomposites; metal nanorods formed by a novel polymer-immobilised seeds mediated technique
KAZEMIAN Majid

16:30 39_3261 Design-Synthesis-Performance Framework for Advanced Nanomaterials using Continuous Flow
KELLICI Suela

16:30 40_3274 Terahertz EMI Shielding in CNT-TiO₂-PDMS Composites Governed by Drude-Smith Charge Transport
SARKAR Jayanta Kumar

16:30 41_3288 Sustainable nanocomposites systems for heavy metal stress alleviation in plants
MIRITELLO Maria

16:30 42_3347 Theoretical and experimental investigations of dual-zone FO-SPR sensors
ZAGAR Cristian

16:30 43_3353 Smart elastomeric composite materials for reel-time detection of mechanical fatigue and failure by in-situ coupled electrical monitoring
SERGHEI Anatoli

16:30 44_375 Metal oxide-dispersed PDMS nanocomposite films with hydrophobicity, UV-NIR shielding and optimum transparency
PERUMALLA Aneela

16:30 45_400 Photocatalytic Reduction of Cr(VI) by Niobium-Doped TiO₂/PVDF Nanofiber Membranes
BOMIO Mauricio

16:30 46_46 High performance of Ag/AlN/Si Schottky diode: Study of the DC sputtering power effect on its electrical properties
KTIFA Skander

16:30	47_533	Electrodeposited Co and Ni Based Prussian Blue Analogs: Structural and Morphological Control for Functional Electronic Materials DE OLIVEIRA GARCIA Larissa
16:30	48_536	Stabilising the photoactive perovskite phase within a hybrid inorganic-organic glass nanocomposite CHEN Celia
16:30	49_555	Multifunctional Perovskite Quantum Dot–Polymer Nanocomposites for Optical Tactile Sensing NG Annie
16:30	50_635	Multicolor photoemission in Alq ₃ – porous silicon hybrid structures OLENYCH Igor
16:30	51_664	MXene Nanoribbon Aerogel-Based Gradient Conductivity Electromagnetic Interference Shields with Unprecedented Combination of High Green Index and Shielding Effectiveness Ef SUR ROY Sanjoy
16:30	52_768	Flexible MXene-based Jerusalem-Cross Metasurfaces for Broadband and High-Efficiency Green Electromagnetic Interference Shielding CHOUDHARY Garima
16:30	53_896	Nanocrystalline tungstates for increasing the sensitivity of hybrid X-ray detectors PUDZA Inga
16:30	54_2273	Optimization of Wood-Derived Conductive Aerogels for Dual Pressure-Temperature Sensing KHATOON Sadia

Tuesday May 26
W05 Hybrid Perovskites
Chairperson(s): **ADELUNG Rainer**
AMERI Tayebah

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08:30	2144	Novel Nanomaterials: From Hybrid Perovskites and Quantum Dots to Hard Ceramics PROTESESCU Loredana (Invited)
09:00	362	Mechanochemical synthesis and temperature-driven structural dynamics of a manganese-based Dion-Jacobson perovskite FERREIRA Fabio Furlan
09:15	1661	Industrial-Scale Fabrication of Mixed-Halide Perovskite Quantum Dot with High Comprehensive Performances for Red-Emitting Modules HUANG Hanyan
09:30	573	Thermal management towards ultra-bright and stable perovskite nanocrystal-based pure red light-emitting diodes ZHU Xiaofang
09:45	479	Core - Shell Nanowire Perovskite Image Sensor KUMAR Shivam

Tuesday May 26
W06 Nanocomposites for Sensing
Chairperson(s): **PETRALIA Salvatore**
RIZZO Aurora

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10:30	2578	The material is the machine: Open porous aeromaterials as functional composites ADELUNG Rainer (Invited)
11:00	3133	Sustainable Silk Fibroin-Based Composites for Advanced Sensing Technologies GALSTYAN Vardan
11:15	3167	PANI-based sensors surface charge mapping: a preliminary investigation on the sensing mechanism FAMENGO Alessia
11:30	3326	Hydrogen gas sensor based on nanostructured polyaniline ADILOV Salimgerey
11:45	1773	Surface Valence Engineering of Tin Oxide via Urea-Assisted Thermal Treatment for Tri-Phase Nanocomposites KIM Gunjoo

Tuesday May 26
W07 Nanocomposites for Healthcare
Chairperson(s): **MISHRA Yogendra**
YADAV Raghvendra singh

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13:45	61	The role of C-based nanostructured materials in enzymatic and non-enzymatic biosensing of Phe and Tyr in biological samples. PETRALIA Salvatore (Invited)
14:15	3129	Investigation of the Synergistic Effect in Polypyrrole/Ni-Doped NASICON Composites for an Enhanced Hydrogen Evolution Reaction KUMAR Ajay
14:30	410	Cluster transfer for the generation of luminescent silver nanodots YU Junhua
14:45	2209	Mapping local failure of silver nanowire networks under electrical stresses BALTY François
15:00	2334	Corrosion resistant Ti-Ta-O nano-oxide coatings on Ti-6Al-4V for biomedical implant applications CHATURVEDI Kartikey
15:15	2429	AuNCs-Antibody Nanosystem a Potential tool for IL6 sensing AKEEL Saad
15:30	81	Nanocomposites coating based on inorganic octahedral cluster units fabricated by solution deposition process GRASSET Fabien
15:45	1148	Synthesis of WO ₃ /Ag ₂ O p-n heterojunction Nanocomposite Thin Films via DC Reactive Magnetron Co-Sputtering for CH ₄ Sensing Applications KUMAR Santosh

Tuesday May 26

W08 Nanocomposites for Catalysis

Chairperson(s): PROTESESCU Loredana

YADAV Raghvendra singh

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- 16:30 2131 Tetrapods based Advanced Materials for Advanced Technologies
MISHRA Yogendra (Invited)
- 17:00 2563 Functional 2D nanocomposites of graphene oxide and polymers for Hydrogen purification
PALERMO Vincenzo
- 17:15 2473 Development of MXene-Based Hierarchical Transition Metal Sulfide Hybrid Nanostructures for the Hydrogen Evolution Reaction in Alkaline Media
MAHABARI Kajal Shakil
- 17:30 2338 Template-Free Hydrothermal Growth of Hollow CdS Nanospheres on Ti C T MXene for Visible-Light-Driven Hydrogen Evolution
Galioglu Sezin
- 17:45 1615 Making nanoparticles with a BANG - Extreme non-equilibrium synthesis of metal, metal oxide nanoparticles via detonation
USZKO Jan Maurycy
- 18:00 912 Unlocking Long-Term Stability of Metallic MoS₂ for Hydrogen Production via Atomic-Scale Interface Engineering
SHIN Hamin
- 18:15 2576 Cobalt-Decorated MXene Incorporated Polysulfone Nanofibrous Membranes for Oil-Water Separation
SARAÇ Züleyha

Wednesday May 27

W09 Electrochemistry of Nanocomposites

Chairperson(s): AMERI Tayebah

MONGUZZI Angelo

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- 08:30 2705 Oxide-Coated Metallic Nanowire Networks as Multifunctional Nanocomposites: From Stability Engineering to Energy and Optoelectronic Applications
Bellet Daniel (Invited)
- 09:00 659 Nanocomposite Inks for Direct Fabric Coating in Wearable Electronics
ABD-ELLAH Marwa
- 09:15 2704 Design of electrode-electrolyte interface using a catechol derived tunable adhesive gel stable supercapacitor performance
PAL Aparajita
- 09:30 3159 Raman Spectroscopic Investigation of Interfacial Strain and SEI Formation in Multiphase Oxide-Titanate/Graphene Composites for Photo-Assisted Lithium Storage
GAKAMSKY Anna
- 09:45 1852 Silver nanowires-molybdenum disulfide core-shell nanostructures for multifunctional flexible supercapacitors
SHARMA Neha

Wednesday May 27

W10 Photonic Nanocomposites

Chairperson(s): NGUYEN Thuc-quyen

RIZZO Aurora

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- 10:30 725 Highly Luminous Scintillating Nanocomposites
VILLA Irene (Invited)
- 11:00 2708 Synthesis of Luminescent Multinary Quantum Dots in Deep Eutectic Solvents
BRANZI Lorenzo
- 11:15 2322 Core-Shell Structural Engineering and Crystal Symmetry Effects on Nd³⁺ Downshifting Emission in Fluoride Nanocrystals
HAQUE Anamul
- 11:30 2125 Green One-Pot Synthesis of Lanthanide-Based MOFs for photonics: Structural Control and Luminescent Properties
LO PRESTI Francesca
- 11:45 618 Impact of Dy³⁺ Doping on Structural and Optical Investigations of Li₂NaPO₄ phosphor
LALOTRA Neha

Wednesday May 27

W11 Polymeric Nanocomposites

Chairperson(s): PRESSER Volker

YADAV Raghvendra singh

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- 13:45 499 Multi-Materials 3D Printing with Functional Nanocomposite Inks for Structural Electronics
SEOL Seung Kwon (Invited)
- 14:15 1782 Dual-emissive carbon based β -cyclodextrin nanodots for specific non-enzymatic recognition of phenylalanine
FANGANO Giorgia
- 16:30 544 Design of Dual Engine Propelled Microswimmers with Upconversion Thermometry Properties
GONÇALVES João Marcos
- 14:45 2725 Non-Covalent Porphyrin-Polymer Nanocomposites for Sustainable Optical Sensing: Influence of Substrate-Solvent Interactions on Supramolecular Organization
DI BARI Ivana
- 15:00 2570 Nanocellulose recovery from mixed textile waste using Deep Eutectic Solvents (DES)
CARRARO Mauro
- 15:15 2257 Multi-Trigger, Single-Component: Developing Tough & Fire-Safe Epoxy Adhesives with Latent Hardener Microcapsules
LI Zhaoxin
- 15:30 165 Synergistic ZnSnO₃/Na-FHT Hybrid Nanostructures for High-Performance Thermoplastic Polyurethane Composites
RANA Bharti
- 15:45 973 CNT/MXene/Cobalt Ferrite Nanocomposites for Enhanced Electromagnetic Shielding
LIU Ching Hao

Thursday May 28

W12 Electromagnetic Nanocomposites

Chairperson(s): AMERI Tayebah

STINGELIN Natalie

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- 08:30 3297 Polymer-based (nano)composite materials for electromagnetic interference shielding: universal relationship between the shielding effectiveness and the electrical conductivity
SERGHEI Anatoli (Invited)
- 09:00 2030 Absorption-Dominant EMI Shielding Using Carbon-Based Hybrid Composites for Wearable and Wireless Electronics
GUPTA Shivam
- 09:15 2454 Advanced Multilayered Polymer Nanocomposites with Spinel Cobaltite Nanoparticles and Reduced Graphene Oxide for High-Performance Electromagnetic Interference Shielding
SWAMI Shubhangi Basayya
- 09:45 1001 Structural Design and Microwave Absorption Properties of Fe-Co-Ni Based Ternary Metal Sulfide/Oxide Yolk-Shell Heterostructures
LIU Zhaobo

Thursday May 28

W13 Hybrid Nanocomposites-I

Chairperson(s): CARROCCIO Sabrina Carola

RIZZO Aurora

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- 10:30 1983 Novel nanomaterials for solution processed photonic light- and heat-management structures
STINGELIN Natalie (Invited)
- 11:00 3241 Graphene Oxide Based Coatings: Sustainable Strategies for Advanced Functional Performance
OLIVIERI Federico
- 11:15 2537 Visualizing Nanoscale Charge Flows in Multi-Dimensional WSe₂/GaAs Vertical Diodes
PIAZZA Valerio
- 11:30 2397 Charge Transport in Chalcogenide Nanocrystal Thin Films
ROY Mrinmoy
- 11:45 2080 Ti₃AlC₂ MAX Phase Material based High Temperature Resistant Thin Ceramic Composites for Stealth Applications over X-Band (8.2-12.4 GHz)
ROUT Durgabatee

Thursday May 28

W14 Hybrid Nanocomposites-II

Chairperson(s): SERGHEI Anatoli

YADAV Raghvendra singh

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- 13:45 2139 Polymeric Cryogel-Based Hybrid Nanomaterials for Advanced Water Remediation
CARROCCIO Sabrina Carola (Invited)
- 14:15 1911 In Situ SAXS/WAXS Investigation of Nanoparticle Formation for Designing Self-Healing Metallic Thin Films
TROST Claus O. W.
- 14:45 1761 Biodegradable Nanocomposite Coatings for Fruit Ripening and Environmental Monitoring
CATALDI Pietro
- 15:00 1713 RF sputtering of metal oxides on nanostructured silver electrodes: degradation mechanisms and stabilization strategies
BARET Amaury
- 15:15 1518 Ultrafast TLAG Growth of superconducting REBa₂Cu₃O_{7-x} Nanocomposite Films: Scalable Synthesis and Advanced Characterization
VLAD Roxana
- 15:30 607 Strain Engineering MoS₂ via Antiferromagnetic Gating for Robust Thermal Memory Effects and Ferromagnetic States
BHATTACHARYA Shatabda

Thursday May 28

WP04 Poster Session 2

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- 16:30 01_100 High-performance piezoelectric nanocomposite of poly(vinylidene fluoride-trifluoroethylene) with 2D crystalline ferroelectric chalcogenel
Do Trung Dieu
- 16:30 02_1218 Visible light enabled photocapacitive charging and glucose sensing properties of hydrothermally synthesized WO₃/CdS nanocomposites
ZIMBA Vishakha
- 16:30 03_1232 Development of conductive bio-based composites for PEMFC
MONTEIL-OCHS Zelda
- 16:30 04_13 Enhanced opto-chemical sensing of phenolphthalein using thermally stable au-supported Titania-silica nanocomposites
ALNAIM Nisrin
- 16:30 05_1400 Visible Light-Driven Heterojunction Array Based on Type-I In₂S₃/In₂O₃ for Selective Multi-Gas Discrimination
YUN Seo Woo
- 16:30 06_1483 Composition Modulation-Mediated Band Alignment Engineering from Type I to Type III in 2D vdW Heterostructures
GUO Dingli

16:30 07_1525 Ti3C2TX MXene and its 2D heterostructures for efficient NH3 sensing
OULD MAINA Elmehdi

16:30 08_1575 Stable Hybrid Perovskite-Graphene Composites for Electromagnetic Wave Absorption in the X and Ku Bands
DENAUD Victor

16:30 09_1665 Advanced Multilayered Polymer Nanocomposites with Spinel Cobaltite Nanoparticles and Reduced Graphene Oxide for High-Performance Electromagnetic Interference Shielding
SWAMI Shubhangi Basayya

16:30 10_1728 Enhancing the Stability of Silver Nanowire Networks with TiO2 Thin Films
BARET Amaury

16:30 11_19 From Fiber Coating to Matrix Integration: Enhancing Strength-Toughness Synergy via Dual-Alternant Interphases in CF/Epoxy Composites
OMAR Mariam

16:30 12_1905 Functional Core-Shell Metal Oxides and Silica Nanocomposites for Investigation of Interactions in Agricultural Systems
SOUSA LOPES Pedro Henrique

16:30 13_1949 Porous Vitremer Solid-State Separators to Enable High Energy Zn-Hybrid Structural Supercapacitors
KORIPALLY Nandu

16:30 14_20 Silicon nanowire liquid crystal formation and processing as aligned macroscopic fibres
TILVE-MARTINEZ David

16:30 15_203 Binder-free Conductive MOF@carbon Composite for Improved Thermal Management and Electrified Regeneration in Industrial CO2 capture
GEBREMARIAM Solomon Kahsay

16:30 16_2107 Engineering Boron Nitride into Effective Sensors of Contaminants and Biomolecules via Modification into Nanosheets, Quantum Dot Hybrids, and BN-MoS2 Composites
VIJAYANANDAN Dhrishya

16:30 17_2281 Engineering the Biotic-Abiotic Interface: Plasmonic Gold Nanostructures for Bio-Photoelectrochemical Energy Conversion
MATTIA Umberto

16:30 18_2310 High-definition printing of electrolytic sensors based on graphene inks doped with photochromic molecules
MAHI Hassina

16:30 19_2344 Hard-Template-Derived Hollow CdS/Ti3C2Tx Mxene Composite for Visible-Light-Driven Hydrogen Evolution
ÖÇALAN Sude Pelin

16:30 20_2349 Cost effective metal oxide and composite coatings for enhanced corrosion resistance and biocompatibility of biomedical implants
BHATTACHARJEE Sarmistha

16:30 22_2370 High-Sensitivity Biomarker Detection Using Multifunctional Ti-Ag-O Thin Films
AREFI SIGAROU DI Mohammad

16:30 23_2392 Influence of Surfactants on the Morphology, Surface Area, Wettability, and Optical Properties of Tin Oxide Nanoparticles for Advanced Functional Applications
DAS Siddhartha

16:30 24_2425 Unravelling the variability in the optical properties of monolayer WSe2 through interface engineering
BLAGA Claire

16:30 25_2449 Effect of Laser Power and Laser Speed on the Defect Volume Ratio and Magnetic Properties of Nd-Tb-Fe-B alloys manufactured by Laser-Bed Powder Fusion
DEY Shrantik Kumar

16:30 26_2498 Rational design of uniform SiO2-based afterglow microparticles for photonic crystals
Liu Xiaowang

16:30 27_25 A Novel Mechanochemical Route to Alkali-Transition-Metal Chalcogenides
WANG Yidan

16:30 28_2596 Enhanced Physico-Chemical Properties of PEDOT:PSS/HNTs nanocomposites for Biointerface Applications
FABIANO Luigi

16:30 29_277 Core-Shell BTO@MSN-Cu Functional Nanocomposites with Ultrasound-Activated Piezoelectric and Ion-Release Synergistic Antibacterial Activity
JIANG Xiaodan

16:30 30_2891 Microcontroller-Based Portable Device for Picric Acid Detection Using Green Carbon Nanodots
PHULL Mallika

16:30 31_3078 Ceria nanoparticle on alumina as highly tuneable and portable colour comparator essay for gas phase H2O2
KUCIA Piotr

16:30 32_3083 Crystal structure and optical properties of Jeanbandyite Fe5SnO(OH)5
EL HACHMI Abdelhadi

16:30 33_3092 Design of electrode-electrolyte interface using a catechol derived tunable adhesive gel for stable supercapacitor performance
PAL Aparajita

16:30 34_3121 Emulsion Polymerization of PEDOT: From Reaction Kinetics to Mesoscale Ordering and Conductivity
SCHMIDT Jan Niklas

16:30 35_3161 Integrated Optical and Nonlinear Microscopy for TMD Analysis
Gakamsky Anna

16:30 36_340 Rare-Earth Doped Pb-free Cs3Bi2Cl9 perovskite for Optical Thermometry and Anticounterfeiting
FATIMA Shanas

16:30 37_341 Negative Thermal Expansion-Driven Up-conversion Optical Thermometry in Ho/Yb co-doped Sc2Mo3O12 Matrix
CHATURVEDI Satyam

16:30 38_348 Covalently Integrated Photopolymer/MOF Nanocomposites: Turning Passive Fillers into Active Sites
PENG Xiaotong

16:30 39_363 Cocklebur-inspired 3D Co/CoO/RGO/CNT crosslinked heterostructures for highly efficient electromagnetic wave absorption
LI Xianghong

16:30 40_365 Superparamagnetic Iron Oxide Nanoparticles Functionalized with Therapeutic Agents: Synthesis, Characterization, and In Vitro Evaluation for Biomedical Applications
HADDAD Paula

16:30 41_401 High-temperature wireless sensors based on aluminum alloys
SEIFERT Marietta

16:30 42_406 Microscopic origin of band spin splitting in monolayer TMDs from correlated first-principles and k-p theory
LI Xue

16:30	43_415	Enhancing Thermal Conductivity of Non-Conductive Films through Freeze-Cast Aluminum Oxide Filler Network Formation Jeon Minwook
16:30	44_43	Instant-in-Air Liquid Metal Printed Tin Oxide and Zinc-Tin Composite Oxide Nanosheets for High Performance Ammonia Sensors SYED Nitu
16:30	45_501	Interface Engineering of Single-Crystalline Ni-rich NCM Cathodes via LiMn _{0.5} Fe _{0.5} PO ₄ Particle Coating LEE Dongjun
16:30	46_521	A systematic growth optimisation procedure for spray pyrolysis grown zinc tin oxide COOLING Ciarán
16:30	48_640	Magnetic Fluid-Inclusion Composites: Architected Soft Materials with Field-Tunable Stiffness and Damping SAAD Saoud Malika
16:30	49_699	Interfacial Interactions, Growth Pathways, and Accompanying Morphological Evolution during MOF-on-MOF KIM Eunji
16:30	50_740	3D Porous Metal-Center Polarization Engineering of H/OH Binding for Alkaline Water Splitting Gaddimath Shivalingayya
16:30	51_752	Defect-Controlled Structural Activation of Flexible In-MIL-53D via a Mixed-Linker Synthetic Strategy KIM Sung-Hwa
16:30	52_769	Electrical Property Tuning in Self-Healing Polymeric Films via Controlled Silver Nanoparticle Deposition HOSSACK Shirley
16:30	53_807	Toward Bimetallic Nanowire Arrays with Controlled Compositions Using Block Copolymer Films: The Interplay Between Metal Precursors BURG Ofer
16:30	54_883	Interface-driven graphene growth in molybdenum-TEOS nanocomposite films: role of nanoscale morphology and interdiffusion ZAPPALÀ Sonia
16:30	55_928	Thermally Stabilized Quantum Dot-Polymer Microresonators as Functional Nanocomposites for Optical Labeling and Sensing REALE Marco