



Wednesday, 24 March

8:55am **Opening Speech**
Room 1
Chaired by: Nicola PINNA

9am **Plenary Session 1**
Room 1
Chaired by: Nicola PINNA

9am **TBD**
» [Prof. Rose Amal](#)

9:45am **What is flexoelectricity, and why is it so important at the nanoscale**
» [Prof. Gustau Catalan](#)

10:30am **Break**
Networking Area

10:50am **Oral Session 1-1**
Room 1
Chaired by: Liberato Manna

10:50am **Solar-driven Photocatalytic Activity of Metal Halide Perovskite**
» [Dr. Lorenzo Malavasi](#)

11:20am **TPU Nanocomposite Coated Multifunctional Textiles Based on Graphene oxide and Clay Nanoplatelets: Influence on Gas Barrier, Weather Resistance, Thermal and Flame Retardant Properties**
» [Dr. Neeraj Kumar Mandlekar](#), Mr. Rishabh Tiwari, Mr. Mohammad Abuzar, Prof. Mangala Joshi

11:35am **fabrication and characterization of poly(aniline-co-2-bromoaniline)/Clay nanocomposite**
» [Ms. nour el houda bouabida](#), Prof. aicha hachemaoui, Prof. ahmed yahiaoui

11:50am **Development of a new generation of reusable PPE with anti-bacteriological properties by functionalization with zinc nanoparticles**
» [Ms. Inês Boticas](#), Mr. Pedro Silva, Mr. João Bessa, Mr. Fernando Cunha, Mrs. Clementina Freitas, Dr. Raul Fangueiro

12:05pm **Synthesis and characterization of polyynes by pulsed laser ablation in organic solvents**
» [Dr. Pietro Marabotti](#), [Dr. Sonia Peggiani](#), Dr. Anna Facibeni, Dr. Patrick Serafini, Prof. Alberto Milani, Prof. Valeria Russo, Prof. Andrea Li Bassi, Prof. Carlo Casari

10:50am **Oral Session 1-2**
Room 2
Chaired by: Dr. Maria Chiara Spadaro

10:50am **TBD**
» [Dr. Yu Kui](#)

11:20am **Light-enhanced H2O2 sensing by supported AgAu bimetallic nanoshells as plasmonic nanozymes**
» [Mr. Rafael Trivella P. da Silva](#), Ms. Maria Paula de Souza Rodrigues, Mr. Adriano Marchini Rodrigues, Ms. Gabriela D'Avilla, Prof. Susana Inés Cordoba de Torresi

11:35am **Examining the Efficacy of Freezing-thawing Cycles for Size Reduction of Beta-cyclodextrin Dextran Vesicles**
» Mrs. Rukan Genç Altürk, Ms. Pinar Karacabey, [Ms. Gamze Doğan](#)

11:50am **Transparent Multi-Color Emitting Carbon Dot/Polymer Films and Applications Thereof**
» [Dr. Rükân GENÇ ALTÜRK](#), Ms. Melis Özge ALAŞ, Mr. Sadin Özdemir, Mr. Mustafa Serkan Yalçın



Continued from **Wednesday, 24 March**

12:05pm **Spatial defects nanoengineering for bipolar conductivity in MoS₂**
» [Dr. Annalisa Calò](#)

12:20pm **Lunch**
Networking Area

1:30pm **Flash Session 1**
Room 1
Chaired by: Dr. Lorenzo Malavasi

1:30pm **Use of magnetic field for structuring supercapacitor electrodes**
» [Dr. Nicolas Goubard](#), Dr. Frédéric Favier, Prof. Thierry Brousse

1:33pm **Surface Functionalized Nickel Sulfide Nanostructures for pH Responsive Selective Adsorption of Pollutants**
» [Ms. SUNITA KUMARI](#)

1:36pm **Electrocatalytic properties of synthesized Co-Fe nanocones obtained using crystal growth modifier with applied, superimposed magnetic field**
» [Ms. Katarzyna Skibińska](#), Dr. Karolina Kolczyk-Siedlecka, Dr. Dawid Kutyla, Mrs. Anna Jedraczka, Prof. Piotr Zabinski

1:39pm **Hydrogen production using Au@ZnO-Graphene by Water Splitting**
» [Mr. Bryan Bentz](#)

1:42pm **Sub-nano Gold-Cobalt Particles as Effective Catalysts in the Synthesis of Propargylamines**
» [Dr. BERRICHI AMINA](#), Prof. Bachir Redoane, Prof. Bedrane Sumeiya, Ms. Bensaad meriem, Prof. Choukchou-Braham Nouredine

1:45pm **Effect of surfactant on TiO₂ electrophoretic deposition for the formation of photocatalytically active layers**
» [Ms. Iarisa sorokina](#), Dr. Egor Lebedev, Mr. Sergey Dubkov, Mr. Roman Ryazanov, Prof. Tomasz Maniecki, Prof. Dmitry Gromov

1:48pm **Sub-10 nm resolution patterning of pockets for enzyme immobilization via tc-SPL**
» [Dr. Annalisa Calò](#)

1:30pm **Flash Session 1**
Room 2
Chaired by: Prof. Gustau Catalan

1:30pm **A two-dimensional photonic crystal resonator for high pressure sensing**
» [Dr. Amel Bounouioua](#), Ms. Ahlem BENMERKHI, Prof. Bouchemat mohamed

1:33pm **Hybrid Soret Nano-Assemblies for Mobile Phone-based Ultrasensitive Copper Ion Sensing**
» [Mr. Seemesh Bhaskar](#), Dr. Sai Sathish Ramamurthy

1:36pm **Nanofabrication of controlled design plasmonic gold substrates by direct laser writing**
» [Dr. Nicoleta Tosa](#), Dr. Lucian Barbu-Tudoran, Dr. Cosmin Farcau

1:39pm **Characterization of transport properties and field emission in MoS₂ Field-Effect Transistors**
» [Dr. Filippo Giubileo](#), Mr. Aniello Pelella, Mr. Enver Faella, Mr. Alessandro Grillo, Dr. Francesca Urban, Prof. Antonio Di Bartolomeo

1:42pm **Grafted Zinc Phthalocyanine to Organic Copolymers as Effective Photosensitizer for Photodynamic Processes**
» [Dr. Tamara Potlog](#), Mr. Pavel Tiuleanu, Mr. Ion Lungu, Dr. Stefan Robu

1:45pm **Electron emission by slow He ions impact on free-electron metal surfaces**
» [Dr. pierfrancesco riccardi](#)

1:48pm **Influence of cationic substitution on antibacterial activity of nanosized calcium phosphate**
» [Dr. Agnese Brangule](#), Dr. Ingus Skadiņš, Prof. Dace Bandere



Continued from **Wednesday, 24 March**

- 2pm **Flash Session 2**
Room 1
Chaired by: Dr. Lorenzo Malavasi
- 2pm **Hybrid Concept to Develop Next-Generation Energy-Storage Technologies**
» [Ms. anukriti pokhriyal](#), Prof. Pedro Gómez-Romero
- 2:03pm **Enhancing the Perovskite Solar Cells Efficiency by Carbon Dots Integration into the PCBM Electron Transport Layer**
» [Ms. Melis Özge ALAS](#), Mr. Adem Mutlu, Prof. Emre Gür, Prof. Ceylan Zafer, Dr. Rukan GENÇ ALTÜRK
- 2:06pm **Local heat sources based on Al-CuOx multilayer structures: formation features and thermal properties**
» [Dr. Egor Lebedev](#), Ms. Iarisa sorokina, Mr. Roman Ryazanov, Mr. Artem Sysa
- 2:09pm **Optimization of eco-friendly synthesis of silver nanoparticles from leaves extract of *Alstonia angustiloba*.**
» [Mrs. NURHIDAYAH AB. RAHIM](#), Prof. MD AZMAN SEENI MOHAMED
- 2:12pm **Atomically dispersed Fe in C2N framework as sulfur host materials for Efficient Lithium-Sulfur Batteries**
» [Mr. Zhifu Liang](#), Mr. Dawei Yang, Dr. Pengyi Tang, Dr. Jordi Llorca, Dr. Marc Heggen, Dr. Rafal E Dunin-Borkowski, Dr. Yingtang Zhou, Dr. Joan Ramon Morante, Dr. Andreu Cabot, Dr. Jordi Arbiol
- 2:15pm ***Grewia tenax* leaves extract mediated silver nanoparticles applications for antibacterial, antibiofilm and antifungal activity**
» [Mrs. Priyanka Yadav](#), Ms. Monisha Singhal, Dr. Surendra Nimesh, Dr. Sreemoyee Chatterjee, Dr. Nidhi Gupta
- 2pm **Flash Session 2**
Room 2
Chaired by: Prof. Gustau Catalan

- 2pm **1D sp-carbon chains-based nanocomposites by laser ablation in polymeric solutions**
» [Dr. Sonia Peggiani](#), [Dr. Pietro Marabotti](#), Dr. Anna Facibeni, Prof. Alberto Milani, Prof. Valeria Russo, Prof. Andrea Li Bassi, Prof. Carlo Casari
- 2:03pm **Development of chitosan/gelatin/ silver nanoparticles based bionanocomposite films for wound healing applications**
» [Ms. Isha Gupta](#), Dr. Sonia Gandhi, Prof. Sameer Sapra
- 2:06pm **Secondary Electron emission in the interaction of low Energy ions and electrons from graphene based materials**
» [Dr. pierfrancesco riccardi](#)
- 2:09pm **In-situ fabrication of ZnO-rGO nanomaterials and their photocatalytic performance**
» [Mrs. Aura Merlano](#), Dr. Ángel Salazar
- 2:12pm **Regularities of the catalyst nanoparticles formation and the synthesis of CNTs in PECVD process**
» [Dr. Evgeniy Kitsyuk](#), Ms. Yulia Fedorova, Dr. Alexander Dudin
- 2:15pm **Electron beam-plasma vacuum deposition of very thin carbon films on quartz and sapphire substrate for transmissive photocathode applications**
» [Dr. Jozef Huran](#), Dr. Nikolay Balalykin, Dr. Mikhail Nozdrin, Dr. Vlasta Sasinková, Mrs. Eva Kováčová, Mr. Alexander Skrypnik, Dr. Alexander Kobzev, Dr. Grigory Shirkov
- 2:30pm **Break**
Networking Area
- 2:50pm **Oral Session 2-1**
Room 1
Chaired by: Prof. Manish Chowalla
- 2:50pm **Heterogeneous catalysts at atomic scale: from growth mechanisms to properties**
» [Dr. Maria Chiara Spadaro](#)



Continued from **Wednesday, 24 March**

- 3:20pm **Electrodeposition of metal-organic frameworks for energy and environment applications**
» [Dr. Xuan Zhang](#), Mr. Wei Guo, Mr. Sijie Xie, Prof. Jan fransaer
- 3:35pm **Eco-friendly synthesis of noble metallic nanoparticles: from theory to practice**
» [Ms. Ana-Alexandra Sorescu](#), Dr. Alexandrina Nuta, Dr. Suica-Bunghez Ioana-Raluca, Dr. Mariana Calin
- 3:50pm **Preparation of TiO₂ thin films covered by plasmonic Ag nanoparticles by laser ablation technique for visible-light water splitting**
» [Dr. Martin Kostejn](#), Dr. Radek Fajgar, Dr. Vladislav Drinek, Dr. Vera Jandova, Dr. Jaroslav Kupcik, Dr. Snejana Bakardijeva
- 4:05pm **Green Energy hybrid graphene device**
» [Dr. javier martinez](#)
- 2:50pm **Oral Session 2-2**
Room 2
Chaired by: Prof. Laura Fabris
- 2:50pm **PCE-based additives enable the formulation of highly-loaded, high-performance ceramic inks for extrusion printing**
» Mr. Omid Akhlaghi, Mr. Amin Hodaei, Mr. Can Akaoglu, Mr. navid Khani, Ms. Ferdows Afghah, Mr. Bahattin Koc, [Ms. Ozge Akbulut](#)
- 3:20pm **Tumor-Targeted Indocyanine Green-Loaded Ferritin Nanotracers for Intraoperative Detection of Cancer Tissue on an Orthotopic Murine Model of Breast Cancer**
» Dr. Serena Mazzucchelli, [Dr. Marta Sevieri](#), Dr. Leopoldo Sitia, Dr. Arianna Bonizzi, Dr. Raffaele Allevi, Dr. marta truffi, Dr. Carlo Morasso, Prof. Fabio Corsi

- 3:35pm **A Nanotoxicology Study: The Impact of Size of Silver & Gold Nanoparticles on Lung Cells**
» [Ms. Hanouf Bafhaid](#), Dr. Zubair Ahmed, Dr. Youcef Mehellou, Dr. Hanene Ali-Boucetta
- 3:50pm **Tunable hydrogel nanostructures by microfluidics to control Hydrodynamicity effect for multimodal imaging applications**
» [Mr. Alessio Smeraldo](#), Prof. Enza Torino
- 4:05pm **Fighting Helicobacter pylori with drug-free nanostructured lipid carriers (NLC)**
» [Ms. Rute Chitas](#), Dr. Catarina L. Seabra, Dr. Cláudia Nunes, Dr. Paula Parreira, Prof. M. Cristina L. Martins
- 4:20pm **Break**
Networking Area
- 4:40pm **Plenary Session 2**
Room 1
Chaired by: Nicola PINNA and Liberato Manna
- 4:40pm **TBD**
» [Dr. Steven George](#)
- 5:25pm **Plasmonic metal oxide nanocrystals**
» [Prof. Delia Milliron](#)

Thursday, 25 March

- 9am **Plenary Session**
Room 1
Chaired by: Liberato Manna
- 9am **TBD**
» [Prof. Manish Chhowalla](#)



Continued from **Thursday, 25 March**

9:45am **Nanocrystals as chemical building blocks**
» [Prof. Helmut Cölfen](#)

10:30am **Break**
Networking Area

10:50am **Oral Session 1-1**
Room 1
Chaired by: Prof. Manish Chhowalla

10:50am **TBD**
» [Ms. Lianzhou Wang](#)

11:20am **Hydroxyapatite Growth on the Carbon Dot entegrated TiO₂Nanoneedles in Simulated-Body-Fluids(SBF)**
» [Mr. aziz rahman aylak](#), Dr. Rükân GENÇ ALTÜRK

11:35am **Characterization and in-vitro hemolysis evaluation of carboxy methyl cellulose capped silver nano particles .**
» [Ms. Archi Ghosh](#), Dr. Mahua Ghosh Chaudhuri, Dr. Prasanta Kumar Maiti, Prof. Kumkum Bhattacharyya

11:50am **Glyconanomaterials and Lectinomics for biomedical theranostic approach.**
» [Ms. SHRIYA AGARWAL](#), Dr. Raj Kumar Tiwari, Dr. Shilpi Chanda, [Dr. Manisha Singh](#)

12:05pm **GREEN BIOSYNTHESIS OF MULTIFUNCTIONAL NANOMATERIALS**
» [Prof. Malik Maaza](#)

10:50am **Oral Session 1-2**
Room 2
Chaired by: Prof. Helmut Cölfen

10:50am **Optical Properties of Layered Hybrid Perovskites: Nano @ Bulk**
» [Prof. Angshuman Nag](#)

11:20am **Hybrid luminescent systems on the base of PbS nanocrystals and freestanding porous silicon microcavities in the near-infrared range**
» [Ms. Irina Kriukova](#), Dr. Pavel Samokhvalov, Prof. Igor Nabiev

11:35am **Morphologically controlled synthesis of Ag@S where S= CZTS,PbS based hybrid nanostructures**
» [Ms. Anchal Yadav](#), Prof. Bart Follink, Dr. Alison Funston

11:50am **Implementation of disordered hyperuniform micro and nano architectures via nano-imprint lithography of metal oxides**
» [Dr. Zeinab CHEHADI](#), Dr. Mohammed Bouabdellaoui, Mrs. Mehrnaz Modaresialam, Prof. David Grosso, Dr. Marco Abbarchi

12:05pm **Quantum Dots dimers: fabrication and insight on interaction mechanisms**
» [Mr. Carlo Nazareno Dibenedetto](#), Prof. Elisabetta Fanizza, Dr. Liberato De Caro, Dr. Rosaria Brescia, Dr. Annamaria Panniello, Prof. Raffaele Tommasi, Dr. Chiara Ingrosso, Dr. Cinzia Giannini, Prof. Angela Agostiano, Prof. Maria Lucia Curri, Dr. Marinella Striccoli

12:20pm **Lunch**
Networking Area

1:30pm **Oral Session 2-1**
Room 1
Chaired by: Prof. Laura Fabris

1:30pm **Detailed calorimetric analysis of micelle formation from aqueous binary surfactant mixtures for design of nanoscale drug carriers**
» [Dr. Ádám Juhász](#), Mr. László Seres, Dr. Edit Csapó



Continued from **Thursday, 25 March**

1:45pm **Local Administration of Nanoparticles for Chronic Lung Fibrotic Disorders**
 » [Dr. laura pandolfi](#), Ms. Vanessa Frangipane, Ms. Roberta Fusco, Mr. Marco Giustra, Dr. Rosanna Di Paola, Prof. Jorge Distler, Dr. Veronica Codullo, Prof. Miriam Colombo, Dr. Sara Bozzini, Dr. Monica Morosini, Prof. Davide Prospero, Prof. Salvatore Cuzzocrea, Prof. Federica Meloni

2pm **Complexation of glycogen with magnetic nanoparticles towards the formulation of biocompatible nanocarriers**
 » [Dr. Maria Karayianni](#), Dr. Stergios Pispas, Dr. Evangelia D. Chrysinia

2:15pm **The bittersweet symphony of Pexiganan-A grafted chitosan microparticles & Helicobacter pylori**
 » [Ms. Diana R. Fonseca](#), Ms. Ana Moura, Dr. Cátia Teixeira, Dr. Catarina Leal Seabra, Dr. Victoria Leiro, Dr. Berta Estevinho, Prof. Paula Gomes, Dr. Paula Parreira, Prof. M. Cristina L. Martins

2:30pm **Brain-targeted nanoparticles for enzyme replacement therapy in neuropathic lysosomal storage disorders: application to Krabbe disease.**
 » [Dr. Ambra Del Grosso](#), Dr. Marianna Galliani, Ms. Lucia Angella, Dr. Melissa Santi, Dr. Ilaria Tonazzini, Mr. Gabriele Parlanti, Dr. Giovanni Signore, Dr. Marco Cecchini

2:45pm **Isobaric labeling proteomics allows an easy and high-throughput investigation of protein corona orientation**
 » Dr. Nara Liessi, Dr. Luca Maragliano, Dr. Valentina Castagnola, Dr. Mattia Bramini, Prof. Fabio Benfenati, [Dr. Andrea Armirotti](#)

1:30pm **Oral Session 2-2**
 Room 2
 Chaired by: Dr. Céline Chizallet

1:30pm **Quantum mechanics and Molecular dynamics investigations on carbon-based nanofluidic device**
 » [Dr. Alia Mejrj](#), Dr. Guillaume Herlem, Dr. Fabien Picaud

1:45pm **Supercapacitor electrodes based on carbon nanostructures**
 » [Dr. Roger Amade Rovira](#), Mr. Joan Martí Gonzalez, Mr. Islam Alshaikh, Prof. Esther Pascual, Dr. Jose Luis Andújar, Prof. Enric Bertran Serra

2pm **Multicomponent suspensions for electrophoretic deposition of composites with carbon nanotubes**
 » [Mr. Aleksey Alekseyev](#), Dr. Egor Lebedev, Prof. Dmitry Gromov, Mrs. Svetlana Pereverzeva, Mr. Roman Ryazanov, Dr. Alexander Dudin

2:15pm **Bioinspired Polymer Nanocomposites Providing Scalable Solution for Thermal Management**
 » [Dr. George Stiubianu](#), Dr. Maria Cazacu, Dr. Carmen Racles, Dr. Mihaela Dascalu, Dr. Alexandra Bargan, Dr. Adrian Bele, Dr. Codrin Tugui, Dr. Cristian Ursu

2:30pm **Microstructural properties and electrochemical performance of electrospun Ge-doped Fe₂O₃ nanofibers as anode material in sodium-ion batteries**
 » Dr. Beatrix Petrovicova, Dr. Chiara Ferrara, Dr. Gabriele Brugnetti, Dr. Clemens Ritter, Dr. Martina Fracchia, Dr. Paolo Ghigna, Dr. Pollastri Simone, [Dr. Claudia Triolo](#), Dr. Lorenzo Spadaro, Prof. Riccardo Ruffo, Prof. Saveria Santangelo

2:45pm **Microfluidic synthesis of PLGA nanocarriers for the controlled delivery of bioactive compounds in plants of agronomic interest**
 » [Dr. Laura Chronopoulou](#), Ms. Francesca Portoghesi, Dr. Elisa Brasili, Dr. Giulia De Angelis, Dr. Anastasia Orekhova, Dr. Giovanna Simonetti, Prof. Gabriella Pasqua, Prof. Cleofe Palocci

3pm **Break**
 Networking Area

3:20pm **Oral Session 3-1**
 Room 1
 Chaired by: Nicola PINNA

3:20pm **Understanding the pathological versus physiological effects of Sr²⁺ on bone by substitution in biomimetic apatite**
 » [Dr. Camila Tovani](#), Dr. Alexandre Gloter, Dr. Thierry Azaïs, Mr. Mohamed Selmane, Dr. Ana P Ramos, Dr. Nadine Nassif



Continued from **Thursday, 25 March**

3:35pm **Designing functionalized polyelectrolyte microcapsules for cancer-cell-targeting and cancer treatment**
 » [Mrs. Daria Kalenichenko](#), Dr. Galina Nifontova, Dr. Alyona Sukhanova, Prof. Igor Nabiev

3:50pm **Hybrid Nanoparticle-Doped Polyelectrolyte Microcapsules with Controlled Photoluminescence for Bioimaging Applications**
 » [Dr. Galina Nifontova](#), Dr. Victor Krivenkov, Ms. Mariya Zvaigzne, Dr. Anton Efimov, Mr. Evgeny Korostylev, Mr. Sergei Zarubin, Prof. Alexander Karaulov, Prof. Igor Nabiev, Dr. Alyona Sukhanova

4:05pm **Theranostic Hyaluronic Acid Nanoparticles (Thera-ANG-cHANPs) for Dual Targeting and Boosted Imaging of Glioma Cells**
 » [Mrs. ANGELA COSTAGLIOLA DI POLIDORO](#), Dr. Laura Mezzanotte, Prof. Enza Torino

4:20pm **Bioresponsive nanocaplets prepared via "templated-polymerization" for gene and protein delivery**
 » [Dr. Hashim P.K](#)

3:20pm **Oral Session 3-2**
Room 2
 Chaired by: Dr. Ana Flavia Nogueira

3:20pm **Bottom-up Synthesis of Layered Metal Chalcogenides: Chemical Routes to New 2D Materials**
 » [Prof. David Lewis](#)

3:35pm **Synthesis and Optimization of Magnetic Polymer Nanocomposites for Biomedical Applications**
 » [Mr. Eoin McKiernan](#)

3:50pm **Indium-Filled Porous Silicon Formed by Electrochemical Deposition**
 » [Mr. Nikita Grevtsov](#), Dr. Eugene Chubenko, Dr. Vitaly Bondarenko, Dr. Ilya Gavrilin, Dr. Alexey Dronov, Dr. Sergey Gavrilov

4:05pm **ZnO nano tetrapods based coatings and their application**
 » Dr. Rasa Mardosaite, Dr. Agne Sulciute, Mr. Mindaugas Ilickas, Mr. Paulius Laurikenas, [Dr. Simas Račkauskas](#)

4:20pm **Spatially Controlled Atomic Layer Deposition within Polymer Templates for Multi-Material Nanorods Fabrication**
 » [Ms. Rotem Azoulay](#), Dr. Neta Shomrat, Ms. Inbal Weisbord, Dr. Galit Atiya, Dr. Tamar Segal Peretz

4:35pm **Break**
Networking Area

4:55pm **Plenary Session 2**
Room 1
 Chaired by: Liberato Manna

4:55pm **Metal halide perovskites: a journey through structure, properties and stability**
 » [Dr. Ana Flavia Nogueira](#)

5:40pm **Supported metallic heterogeneous catalysts in light of density functional theory calculations: from single atoms to subnanometric clusters**
 » [Dr. Céline Chizallet](#)

Friday, 26 March

9am **Plenary Session 1**
Room 1
 Chaired by: Nicola PINNA

9am **TBD**
 » [Prof. Kimberly Dick Thelander](#)

9:45am **TBD**
 » [Prof. Rainer Haag](#)



Continued from Friday, 26 March

10:30am **Break**
Networking Area

10:50am **Oral Session 1-1**
Room 1
Chaired by: Dr. Jordi Arbiol

10:50am **Anisotropic Plasmonic Nanoparticles with Wide Range Resonance Tunability**
» Dr. Supriya Atta, Dr. Ted Tsoulos, Ms. Kaleigh Ryan, [Prof. Laura Fabris](#)

11:20am **Plasmonic mesoporous silica coated copper sulfide nanoparticles as near infrared absorbing photothermal agents**
» [Prof. Elisabetta Fanizza](#), Ms. Orietta Pugliese, Ms. Rita Mastrogiacomo, Dr. Luciano De Sio, Dr. Alexa Guglielmelli, Dr. Federica Rizzi, Mr. Pierluigi Lasala, Dr. Maria Principia Scavo, Dr. Gennaro Gentile, Dr. Rachele Castaldo, Prof. Angela Agostiano, Dr. Marinella Striccoli, Dr. Nicoletta Depalo, Prof. Maria Lucia Curri

11:50am **Size, shape and phase modulation of colloidal plasmonic copper sulphide nanocrystals**
» [Ms. Mariangela Giancaspro](#), Dr. Teresa Sibillano, Ms. Francesca Panzarea, Dr. Cinzia Giannini, Ms. Silvia Schmitzer, Mr. Fabio Vischio, Dr. Nicoletta Depalo, Prof. Angela Agostiano, Prof. Maria Lucia Curri, Dr. Marinella Striccoli, Prof. Elisabetta Fanizza

12:05pm **Plasmonic biocatalysis: using light for the regulation of enzyme activity on plasmonic nanoparticles**
» [Dr. Heloise Ribeiro de Barros](#), Prof. Pedro Camargo, Prof. Susana Inés Cordoba de Torresi, Prof. Fernando López-Gallego, Prof. Luis Liz-Marzán

10:50am **Oral Session 1-2**
Room 2
Chaired by: Nicola PINNA

10:50am **From whole blood to isolated extracellular vesicles: SERS for efficient cancer diagnostics**
» Dr. Tatu Rojalin, Ms. Hanna Koster, [Prof. Randy Carney](#)

11:20am **Functionalized drug loaded H-Ferritin nanocages target Cancer Associated Fibroblasts in vitro and in vivo**
» [Dr. Leopoldo Sitia](#), Dr. Arianna Bonizzi, Dr. Serena Mazzucchelli, Dr. Sara Negri, Dr. Cristina Sottani, Dr. Elena Grignani, Dr. Maria Antonietta Rizzuto, Prof. Davide Prosperi, Dr. Luca Sorrentino, Dr. Carlo Morasso, Dr. Raffaele Allevi, Dr. Marta Sevieri, Dr. Filippo Silva, Dr. marta truffi, Prof. Fabio Corsi

11:35am **Dissecting how cells internalize and process nano-sized drug carriers for nanomedicine applications**
» [Ms. Anna Salvati](#)

11:50am **Hybrid diatomite-based nanocarriers for release and intracellular monitoring of Galunisertib to colorectal cancer cells.**
» [Ms. Chiara Tramontano](#), Ms. Giovanna Chianese, Dr. Luca De Stefano, Dr. Anna Chiara De Luca, Dr. Stefano Managò, Dr. Enza Lonardo, Dr. Donatella Delle Cave, Dr. Ilaria Rea

12:05pm **Towards low-cost metal-enhanced fluorescence biosensor based on 3D bio-responsive hydrogels**
» [Mr. Bruno Miranda](#), Dr. Rosalba Moretta, Dr. Selene De Martino, Dr. Ilaria Rea, Dr. Principia Dardano, Dr. Carlo Forestiere, Dr. Luca De Stefano

10:50am **Oral Session 1-3**
Room 3
Chaired by: Prof. Elisa Moretti

10:50am **Inexpensive and Scalable Production of High Performance Thermoelectric Materials through Solution Methods**
» [Prof. Maria Ibáñez](#)

11:20am **Variable angle spectroscopic ellipsometry characterization of turbostratic CVD-grown bilayer and trilayer graphene**
» [Mrs. Grazia Giuseppina Politano](#), Dr. Carlo Vena, Dr. Giovanni Desiderio, Prof. Carlo Versace



Continued from Friday, 26 March

- 11:35am **Perspectives for Human Angiotensin I-Converting Enzyme registration by the Surface Enhanced Raman Spectroscopy**
 » [Dr. Irina Boginskaya](#), Dr. Olga Kost, Mrs. Natalia Nechaeva, Dr. Victoria Tikhomirova, Dr. Olga Kryukova, Dr. Naida Bulaeva, Dr. Elena Golukhova, Dr. Ilya Ryzhikov, Dr. Ilya Kurochkin, Mr. Konstantin Afanasev, Dr. Valery Evdokimov
- 11:50am **Excitable cells activity detection through graphite-patterned diamond biosensors**
 » [Ms. Veronica Varzi](#), Mr. Pietro Aprà, Mrs. Giulia Tomagra, Prof. Andrea Marcantoni, Prof. Alberto Pasquarelli, Prof. Paolo Olivero, Prof. Valentina Carabelli, Dr. Federico Picollo
- 12:05pm **Nanomaterial-based Dual Luminescence Aptasensor for Pathogen Detection**
 » [Dr. Milad Torabfam](#), Dr. Hasan Kurt, Dr. Mustafa Kemal Bayazit, [Prof. Meral Yüce](#)
- 12:20pm **Lunch**
Networking Area
- 1:30pm **Flash Session 1**
Room 1
 Chaired by: Prof. Elisabetta Fanizza
- 1:30pm **Variable Angle Spectroscopic Ellipsometry Characterization of Reduced Graphene Oxide Stabilized with Poly(Sodium 4-Styrenesulfonate)**
 » [Mrs. Grazia Giuseppina Politano](#), Dr. Carlo Vena, Dr. Giovanni Desiderio, Prof. Carlo Versace
- 1:33pm **Synthesis of 2D nanomaterials (h-BN, Bi₂Te₃, MoS₂) by top-down techniques**
 » [Mr. Jesús Javier Castellanos González](#), Dr. Antonio Esau Del Río Castillo, Dr. Ana Laura Martínez Hernández, Dr. Carlos Velasco Santos

- 1:36pm **Surface layer thickness determination in case of "island" structure by X-ray Photoelectron Spectroscopy**
 » Dr. Viktor Afanas'ev, [Mr. Daniil Selyakov](#)
- 1:39pm **Nanocomposites of PMMA and rose-like BiOCl nanostructure: Synthesis and characterization**
 » [Ms. Sakshi Sharma](#), Dr. Aman Deep Acharya
- 1:42pm **Wearable Graphene-Kapton Sensor for Blood Toxicity Monitoring**
 » [Mr. Mohamed Bouherour](#), Dr. Nabila Aouabdia, Prof. Azzedine Bellel
- 1:45pm **Electrical Properties of Epoxy Composites Containing Carbon Black and Carbon Nanotube**
 » [Dr. Raja Nor Raja Othman](#), Mr. Afham Zaim
- 1:48pm **A comparison Study in Synthesis of Aluminum and Copper Nanoparticles using Pulsed Laser Ablation in Liquid**
 » [Dr. Ridha Hamdi](#), Dr. Tahani Felemban, Mr. Hassan Al-khabbaz, Dr. Alheshibri Alheshibri, Dr. SULTAN AKHTAR, Prof. Khaled A Elsayed
- 1:30pm **Flash Session 1**
Room 2
 Chaired by: Prof. Randy Carney
- 1:30pm **Cedar essential oil - β -cyclodextrin nanocomplex formation for the effective inhibition of acetylcholinesterase**
 » [Ms. Annita Katopodi](#), Ms. Ioanna Pitterou, Ms. Georgia Petridou, Ms. Rafaella Spanou, Dr. Eleni Kavetsou, Prof. Anastasia Detsi
- 1:33pm **Development of solid lipid nanoparticles (SLNs) and nanostructured lipid carriers (NLCs) for the encapsulation and sustained release of the flavonoid naringin**
 » [Ms. Ioanna Pitterou](#), Ms. Annita Katopodi, Dr. Eleni Kavetsou, Prof. Anastasia Detsi



Continued from Friday, 26 March

1:36pm **Topical Formulation with AS1411-Gold Nanoparticles as Cervical Cancer Drug Delivery System**

» [Ms. Jéssica Nunes](#), Ms. Ana S. Agonia, Mr. Tiago Rosado, Dr. Eugénia Gallardo, Dr. Rita Palmeira-de-Oliveira, Dr. Ana Palmeira-de-Oliveira, Prof. José Martinez-de-Oliveira, Dr. José Fonseca-Moutinho, Dr. Maria Paula Cabral Campello, Dr. António Paulo, Prof. Andrew D. Ellington, Dr. Carla Cruz

1:39pm **Biodegradable lipid-polymer nanoparticles with predictable in vivo miRNA delivery activity**

» [Ms. Felicia Roffo](#), Prof. Enza Torino

1:42pm **Chitosan covered calcium phosphate particles as a vehicle for ocular drugs**

» [Mrs. Ekaterina Popova](#), Dr. Victoria Tikhomirova, Mrs. Olga Beznos, Mrs. Natalia Chesnokova, Dr. Olga Kost

1:45pm **Double polymer shell liposomes for oral delivery of curcumin**

» [Ms. Anna Maria Maurelli](#), Dr. Vincenzo De Leo, Dr. Fulvio Ciriaco, Dr. Roberto Comparelli, Prof. Angela Agostiano, Prof. Lucia Catucci

1:48pm **Redox-responsive mesoporous silica nanoparticles for cancer therapy**

» [Dr. Rosemeyre Cordeiro](#), Ms. Ana Maria Carvalho, Prof. Luísa Durães, Dr. Henrique Faneca

1:30pm **Flash Session 1**

Room 3

Chaired by: Liberato Manna

1:30pm **Photophysical Probing of Squaraine Nanoenvironment, Diffusion Dynamics and Energy Transfer in Conjugated Polymer Nanoparticles**

» [Ms. Clara Zehe](#), Prof. Gareth Redmond

1:33pm **Hydrogen Production and Degradation of Antibiotics Using Silver-Based TiO₂ and ZnO Catalysts**

» [Mr. Carlos A. Valentin](#), Dr. Loraine Soto-Vázquez, Dr. Abniel Machin, Mr. Kenneth Fontánez, Dr. Francisco Márquez, Ms. Carla Colón-Cruz, Mr. Gerardo Claudio, Dr. Edgard Resto, Dr. Carmen Morant, Dr. Florian I. Petrescu

1:36pm **Amine assisted synthesis of dual metal shells on semiconductor nanostructures**

» [Ms. Anchal Yadav](#), Prof. Bart Follink, Dr. Alison Funston

1:39pm **Fluorescence enhancement and cetuximab-conjugation of nanodiamonds for drug delivery**

» [Mr. Pietro Aprà](#), Mr. Mirko Sacco, Ms. Veronica Varzi, Dr. Valentina Boscaro, Prof. Margherita Gallicchio, Prof. Alessandro Barge, Dr. Federico Picollo

1:42pm **A sustainable bottom-up synthetic approach for carbon dots**

» [Mr. Gianluca Minervini](#), Dr. Marinella Striccoli, Prof. Elisabetta Fanizza, Prof. Angela Agostiano, Prof. Maria Lucia Curri, Dr. Annamaria Panniello

1:45pm **NOTEWORTHY THERMAL CONDUCTIVITY ENHANCEMENT IN Ag-GRAPHENE/ ETHYLENE GLYCOL BASED NANOFUID**

» [Prof. Malik Maaza](#)

1:48pm **Doping Ag, Au, Cu effect in photo-stimulated removal and degradation of 4-nitrophenol with gel-TiO₂ or commercial TiO₂ and ZrO₂ powders**

» [Prof. Irina Mikhaleenko](#), Mrs. Ekaterina Shalygina, Mr. Vame Sisse, Mr. Denis Zaev

2pm **Flash Session 2**

Room 1

Chaired by: Prof. Elisabetta Fanizza

2pm **Quantum oscillations in topological insulator microwires contacted with superconducting leads**

» [Dr. Leonid Konopko](#), Prof. Albina Nikolaeva, Prof. Tito Huber



Continued from Friday, 26 March

- 2:03pm **One-step microwave synthesis of functionalized magnetic nanoparticles**
» [Mr. Thomas Girardet](#), Ms. Amel Cherraj, Dr. Franck Cleymand, Dr. Solenne Fleutot
- 2:06pm **2D-Composites for the Development of Miniaturized Lithium Ion Batteries**
» [Ms. Carla Colon-Cruz](#), Dr. Abniel Machin, Dr. Maria Cotto, Dr. Carmen Morant, Dr. Francisco Marquez
- 2:09pm **Quantum size effect and surface state of “topological insulator” in Bi1-xSbx wires near the gapless state**
» [Prof. Albina Nikolaeva](#), Dr. Leonid Konopko, Prof. Tito Huber, Mr. Ivan Popov, Ms. Oxana Botnari
- 2:12pm **Kinetics of the electrochemical precipitation of lead on FTO substrate at different temperatures**
» [Dr. Ridha Hamdi](#), Dr. Amani Rached, Dr. Amor BEN Ali
- 2:15pm **On quantum dynamics of magnetic dipoles in diamagnetic crystals**
» [Dr. Mikhail Kucherov](#)
- 2:18pm **optimisation of the coupling length of magneto photonic slab waveguide based on a square lattice**
» [Dr. Salim ghalem](#), Dr. Ibbal mohamedredha, Prof. Bouchemat mohamed, Prof. Boumaza-Bouchemat Touraya
- 2pm **Flash Session 2**
Room 2
Chaired by: Prof. Randy Carney
- 2pm **Enhancing the antioxidant activity of the natural coumarin daphnetin and its substituted analogues by their encapsulation in Solid Lipid Nanoparticles**
» [Ms. Annita Katopodj](#), Ms. Kyriaki Safari, Ms. Aikaterini Spanou, Dr. Eleni Kavetsou, Prof. Anastasia Detsi

- 2:03pm **A targeted delivery nanosystem to mediate a combined antitumor strategy to HCC**
» [Ms. Dina Farinha](#), Dr. Michael Migawa, Dr. Anabela Sarmiento, Dr. Henrique Faneca
- 2:06pm **Title: Development of flexible nanovesicles for transdermal drug delivery of Azilsartan medoxomil**
» [Ms. aparanjitha r](#)
- 2:09pm **Bacteriophage T7 single-stranded DNA-binding protein displays template-catalyzed recycling**
» Dr. Jordi Cabanas-Danes, Mr. Longfu Xu, [Mr. Matthew Halma](#), Dr. Sarah Stratmann, Prof. Antoine van Oijen, Prof. Erwin Peterman, Prof. Gijs Wuite
- 2:12pm **Encapsulation of Dopamine and L-DOPA in various biodegradable nanosystems**
» [Ms. Ioanna Pitterou](#), Mr. Isidoros Stamatou, Dr. Eleni Kavetsou, Dr. Eleni Alexandratou, Prof. Anastasia Detsi
- 2:15pm **pre-miR-149 G-quadruplex as a molecular recognition agent of Nucleolin**
» [Mr. Tiago Santos](#), Mr. André Miranda, Mr. Lionel Imbert, Dr. Gilmar Salgado, Prof. Eurico Cabrita, Dr. Carla Cruz
- 2:18pm **Effectiveness of azelaic acid inclusion complex and its derivative selection in nanovesicles on cell lines**
» [Dr. Atchara Panyosak](#)
- 2pm **Flash Session 2**
Room 3
Chaired by: Liberato Manna
- 2pm **Optical Properties Analysis of Local Structural Change Induced by Gamma Irradiation in Al1.9Eu0.1Sr6Cs2(PO4)6(OH)2**
» [Mr. Ayumu Masuda](#), Dr. Shinta Watanabe, Dr. Masahiko Nakase, Prof. Kenji Takeshita



Continued from Friday, 26 March

2:03pm **Nano-domain patterning by focused ion beam in nonpolar-cut MgOLN and PMN-PT single crystals covered by artificial dielectric layer**

» [Ms. Elena Pashnina](#), Mr. Dmitry Chezganov, Ms. Alla Nuraeva, Prof. Vladimir Shur

2:06pm **Local and non-local charge transfer of slow alkali ions at surfaces**

» [Dr. pierfrancesco riccardi](#)

2:09pm **UV photodetector based on Zn1-xMgxO thin films**

» [Mr. Vadim Morari](#), Dr. Rusu Emil, Dr. Ursachi Veaceslav, Prof. Tighineanu Ion

2:12pm **Performance and electrochemical studies of lithium ion hybrid supercapacitor**

» [Ms. Sarah Alshehri](#), Prof. Gregory G.Wildgoose, Dr. John Fielden

2:15pm **Spectroscopic investigation of water soluble QDs with Proteinase K: FRET Approach**

» [Mr. Mallikarjun Patil](#), Dr. Sanjeev R. Inamdar, Dr. Kotresh M.G, Mr. Tilakraj T.S, Mr. Vighneshwar S Bhat, Mr. Vikram S Pujari

2:18pm **Methylated Silica Surfaces Having Tapered Nipple-Dimple Nanopillar Morphologies as Robust Broad-Angle and Broadband Antireflection Coatings**

» [Mrs. Mehrnaz Modaresialam](#), Dr. Marco Abbarchi, Prof. David Grosso, Dr. Jena -Benoit Claude

2:30pm **Break**

Networking Area

2:50pm **Oral Session 2-1**

Room 1

Chaired by: Prof. Elisabetta Fanizza

2:50pm **Nanostructured ceria-titania photocatalysts for environmental and energy-related applications**

» [Prof. Elisa Moretti](#)

3:20pm **Investigations on Spatial Self-Phase Modulation of Fullerenes in Solution**

» [Ms. Stefanie Dengler](#), Dr. Bernd Eberle

3:35pm **Sensitized photoluminescence of rare earth-based semiconducting nanocrystals**

» [Dr. Guillaume Gouget](#), Dr. Morgane Pellerin, Dr. Rabih Al Rahal Al Orabi, Dr. Lauriane Pautrot-D'Alençon, Dr. Thierry Le Mercier, Prof. Christopher B. Murray

3:50pm **TOWARDS MULTIFUNCTIONAL VO2 MEMRISTORS FOR ULTRAFAST TUNABLE NANO-OPTOELECTRONICS**

» [Prof. Malik Maaza](#)

2:50pm **Oral Session 2-2**

Room 2

Chaired by: Liberato Manna

2:50pm **Pseudocapacitive electrodes: a journey from nano to micro**

» [Prof. Thierry Brousse](#)

3:20pm **Zeolitic-Imidazolate Framework-8 Nanoparticles as mediators to control the selectivity in the oxidative ring-opening reaction of dimethylfuran**

» [Dr. Carolina Carrillo Carrion](#)

3:35pm **Silver and molybdenum disulfide photocatalysts for the production of hydrogen and degradation of ciprofloxacin**

» [Mr. Gerardo Claudio](#), Dr. Abniel Machin, Dr. Loraine Soto-Vázquez, Ms. Carla Colón-Cruz, Mr. Carlos A. Valentin, Mr. Kenneth Fontánez, Dr. Florian I. Petrescu, Dr. Edgard Resto, Dr. Carmen Morant, Dr. Francisco Márquez



Continued from **Friday, 26 March**

2:50pm **Oral Session 2-3**
Room 3
Chaired by: Nicola PINNA

2:50pm **The surface chemistry of colloidal nanocrystals; empowered by NMR**
» [Prof. Jonathan De Roo](#)

3:20pm **Estimating the effect of semiconductor quantum dot surface charge on their interaction with proteins**
» [Mrs. Tatiana Tsoy](#), Prof. Alexander Karaulov, Prof. Igor Nabiev, Dr. Alyona Sukhanova

3:35pm **Full ground states of dipolar particles controlled from external fields**
» [Mr. Ebenezer KEMGANG](#)

3:50pm **Coated superparamagnetic iron oxide nanoparticles: synthesis and characterization**
» [Dr. Solenne Fleutot](#), Dr. Pierre Venturini, Mr. Thomas Girardet, Dr. Franck Cleymand

4:05pm **Break**
Networking Area

4:25pm **Plenary Session**
Room 1
Chaired by: Dr. Jordi Arbiol

4:25pm **TBD**
» [Ms. Aleksandra Radenovic](#)

5:10pm **Scanning transmission electron microscopy at high spatial and energy resolution**
» [Prof. Quentin Ramasse](#)

5:55pm **Closing Session**
Room 1