

Tentative Program

(as of 25/10/2024)

MONDAY OCTOBER 28, 2024

| 08:00-08:45 Registration 08:45-09:00 Opening Ceremony 09:00-09:45 Andrea Ferrari (Cambridge Graphene Centre / University of Cambridge, UK) | |
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| 09:00-09:45 Andrea Ferrari (Cambridge Graphene Centre / University of Cambridge, UK) | |
| | _ |
| Title to be defined | Р |
| 09:45-10:15 Michal Otyepka (RCPTM, Czech Republic) | K |
| Engineering Graphene Derivatives through Tailored Functionalization for Sensing | |
| Applications | |
| 10:15-10:30 Ece Eksin (Izmir Demokrasi University, Turkey) | 0 |
| Electrochemical miRNA Detection using Gold-Decorated Reduced Graphene Oxide | |
| Modified Paper Electrodes 10:30-11:00 Coffee Break / Poster Session | |
| 10:30-11:00 Coffee Break / Poster Session 11:00-11:30 Radek Zboril (Palacky University in Olomouc, Czech Republic.) | K |
| Single Atom Engineering with Graphene towards Applications in Catalysis, Environr | |
| Technologies and Medicine | Heritai |
| 11:30-12:00 Aristides Bakandritsos (Palacky University of Olomouc, Czech Republic) | K |
| Tweaking 2D-materials structure for pushing the limits of electrochemical energy s | |
| 12:00-12:30 Emmanuel Kymakis (Hellenic Mediterranean University, Greece) | K |
| Revolutionizing Indoor and Outdoor Photovoltaics with 2D Materials: Boosting Effic | ciency, |
| Stability, and Scalability | |
| 12:30-13:30 Cocktail Lunch (offered by NanoBalkan2024 organisers) | |
| 13:30-14:00 Poster Session I | |
| 14:00-14:30 Dhimiter Bello (UMass Lowell, USA) | K |
| Characterization of nanoparticles and other thermal breakdown products of conve | ntional |
| (AFFF) and replacement fluorine-free firefighting foams (FFF) | |
| 14:30-14:50 Gjergj Dodbiba (The University of Tokyo, Japan) Measuring Nanoparticle Size Distribution in a Fluid Using an Interactive Force Appa | ratus |
| 14:50-15:10 Armond Daci (University of Prishtina, Republic of Kosovo) | Tatus I |
| Application of fluorescence imaging to assess in vivo the biodistribution of nanopal | rticles |
| 15:10-15:30 Konstantinos Rogdakis (Hellenic Mediterranean University, Greece) | |
| Sustainable Resistive Switching Memories Enabled by Halide Perovskites | · |
| 15:30-16:00 Mete Atature (University of Cambridge, UK) | K |
| Title to be defined | |
| 16:00-16:40 Coffee Break / Poster Session | |
| 16:40-17:00 Veronica Montes Garcia (University of Strasbourg, France) | I |
| Functionalized Low-Dimensional Nanostructures for Sensing Applications | |
| 17:00-17:20 Onur Parlak (Karolinska Institutet, Sweden) | I |
| Epidermal Sensors for Medical Diagnostics | 0 |
| 17:20-17:35 Majlinda Vasjari (NanoAlb, University of Tirana, Albania) Integration of smart nanomaterials with advanced nanotechnology for development | O at of |
| nanosensors for water pollution detection | 11 01 |
| 17:35-17:50 Dilsat Ozkan-Ariksoysal (Ege University, Turkey) | 0 |
| Current approaches based on electrochemical DNA nanobiosensors for genetic dia | |
| or analysis of drug-DNA interactions | , |
| 17:50-18:05 Ali Kemal Ateş (Dicle University, Turkey) | 0 |
| MoS2-PEDOT:PSS Nanocomposite-Based Electrochemical Sensor for Epirubicin Det | ection |
| Miosz-redot. F33 Manocomposite-Based Electrochemical Sensor for Ephrabicin Det | |

TUESDAY OCTOBER 29, 204

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|-------------|--|-----|
| 09:00-09:30 | Sibel A. Özkan (Ankara University, Turkey) | K |
| | Nanomaterial Embedded Molecularly Imprinted Polymer Sensors for The Pharmaceutical | |
| | and Biomedical Assay: Recent Developments and Future Prospects | |
| 09:30-10:00 | Suna Timur (Ege University, Turkey) | Κ |
| 03.30 10.00 | The Role of Paper-Based and Electrochemical Biosensors in Multiplexed Diagnostics | |
| 10:00-10:30 | Robert S. Marks (Ben Gurion University, Israel) | K |
| 10.00-10.30 | A new lateral capture flow immunoassay configuration for the determination of anti-drug | K |
| | · | |
| 10 20 11 00 | antibodies in patients receiving biologic therapy | |
| 10:30-11:00 | Coffee Break / Poster Session | |
| 11:00-11:20 | Eva Hemmer (University of Ottawa, Canada) | ı |
| | Shining a Light on Lanthanide-Doped Nanoparticles: From Synthesis to Potential | |
| | Applications | |
| 11:20-11:50 | Mamas Prodromidis (University of Ioannina, Greece) | K |
| | Generation of Nanomaterials via Spark Discharge: A Rapid, Environmentally Friendly, and | |
| | Versatile Method for In-Situ Modification of Electrode Surfaces | |
| 11:50-12:20 | Javier Rodríguez-Viejo (UAB / ICN2, Spain) | Κ |
| | Nano structuring Molecular Glasses via Anomalous Melting and Wrinkle Formation | |
| 12:20-14:00 | Lunch | |
| | PLENARY SESSION | |
| 14:00-14:30 | Monica Craciun (University of Exeter, UK) | K |
| 11.00 11.00 | Integration of 2D Materials with Textiles for Wearable Electronics and Beyond | |
| 14:30-14:45 | Petr Jakubec (Univerzita Palackého v Olomouci (CATRIN), Czech Republic) | 0 |
| 14.50 14.45 | Inkjet Printing for Advanced Electrode Fabrication: Precision, Efficiency, and the Role of | O |
| | Graphene-Based Materials in Electrochemical Applications | |
| 14:45-15:05 | · | |
| 14.45-15.05 | Elena Del Corro (ICN2, Spain) | ' |
| | Boosting the performance of nanoporous graphene-based thin-film microelectrodes for | |
| 45.05.45.05 | neural interfacing | ., |
| 15:05-15:35 | Zdenek Sofer (UCT Prague, Czech Republic) | K |
| | Xenes – monoelemental 2D materials, their synthesis and applications | |
| 15:35-15:55 | Theodosis Giousis (University of Groningen, The Netherlands) | ı |
| | Ex Situ Covalent Functionalization of Germanene via 1,3-Dipolar Cycloaddition: A | |
| | Promising Approach for the Band Gap Engineering of Group 14 Xenes | |
| 15:55-16:10 | Coffee Break / Poster session | |
| 16:10-16:30 | Marijana Petković (University of Belgrade, Serbia) | 1 |
| | Biomolecular changes in cervical cancer cells by non-stabilised and albumin-stabilised | |
| | colloidal N-TiO2 nanoparticles: SR FTIR spectroscopical approach | |
| 16:30-17:00 | Gianni Ciofani (IIT, Italy) | Κ |
| | Piezoelectric cellular stimulation: An innovative approach for brain cancer therapy | |
| 17:00-17:30 | Nunzio Denora (Università degli Studi di Bari Aldo Moro, Italy) | Κ |
| | Biomimetic Nanoparticles via Microfluidics: Advancing Precision Cancer Therapy | |
| 17:30-17:45 | Nicola d'Avanzo (Magna Graecia University of Catanzaro, Italy) | 0 |
| _, | Bioinspired thermoresponsive nanovesicles for improved melanoma targeting | 9 |
| 17:45-18:15 | Majlinda Lako (Newcastle University, UK) | K |
| 17.75-10.13 | Retinal organoids: a window into our eyes during development and disease | 1 |
| | netiliai organiolus, a willuow ilito our eyes uuring development and disease | |

WEDNESDAY OCTOBER 30, 2024

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| 09:00-09:30 | Shimshon Belkin (The Hebrew University of Jerusalem, Israel) | K |
| 00.20 00.45 | Bio-detection of buried landmines by autonomous microbial-electronic modules | 0 |
| 09:30-09:45 | Toufic El Beaino (CIHEAM-IAMB, Italy) Exploring of Nano-biomolecules for the Detection and Control of Bacterial Plant Diseases | 0 |
| 09:45-10:05 | Erhan Zor (Necmettin Erbakan University, Turkey) | 1 |
| 05.45-10.05 | A Nanobiomaterial as Test Membrane for Lateral Flow Assays | ' |
| 10:05-11:05 | Coffee Break / Poster session | |
| 11:05-11:35 | Massimo De Vittorio (IIT, Italy) | K |
| | Nanomachined tapered optical fibers for recording and controlling neural | |
| 11:35-12:05 | Sergio Moya (CIC BiomaGUNE, Spain) | K |
| | Biological Fate of Nanocarries and In vivo Protein Corona studies | |
| 12:05-12:25 | Driton Vllasaliu (King's College London, UK) | I |
| | Milk NanoVesicles for Oral Delivery of Nucleic Acids | |
| 12:25-14:00 | Lunch | |
| 14:00-14:30 | Yasuaki Einaga (Keio University, Japan) | K |
| 44 20 45 00 | Electrochemical CO2 reduction by Boron-doped Diamond Electrodes | ., |
| 14:30-15:00 | Daniel Maspoch (ICN2, Spain) | K |
| 15:00-15:20 | Clip-off Chemistry: Synthesis by Bond Cleavage Takeshi Kondo (Tokyo University of Science, Japan) | |
| 13.00-13.20 | Spray-coated Diamond Electrode for Sulfuric Acid Electrolysis | ' |
| 15:20-15:40 | Takashi Uemura (The University of Tokyo, Japan) | 1 |
| 13.20 13.10 | Metal-Organic Frameworks for Advanced Polymers | • |
| | · | |
| 15:40-16:00 | Mai Tomisaki (Kyushu University, Japan) | - 1 |
| 15:40-16:00 | Mai Tomisaki (Kyushu University, Japan) Decoupled Water Electrolysis Toward Selective Generation of Hydrogen and Oxygen | I |
| 15:40-16:00 16:00-16:30 | | ı |
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THURSDAY OCTOBER 31, 2024

| | THORSDAT GETOBER 31, 20 | <i>52</i> 1 |
|-------------|---|-------------|
| 09:00-09:20 | Nilgun Baydogan (Istanbul Technical University, Turkey) | ı |
| | Progress in the Inactivation of SARS-CoV-2 Using Nanolayers Composed of Doped Metal | |
| | Oxides Synthesized via Sol-Gel Processing | |
| 09:20-09:35 | Ortensia Ilaria Parisi (University of Calabria, Italy) | 0 |
| | Molecularly Imprinted Polymers (MIPs) as Synthetic Antibodies for Inhibiting SARS-CoV-2 | |
| | Omicron Variant | |
| 09:35-09:55 | Cecilia Cristea ("Iuliu Haţieganu" University of Medicine and Pharmacy, Romania) | 1 |
| | DNA nanotechnology for personalized medicine: from selection to advances therapeutics | |
| 09:55-10:10 | Ada Tushe (Veneto Institute of Oncology (IOV) - IRCCS, Italy) | 0 |
| | Development and Characterization of Two Novel Nanomedicine-based Approaches to | |
| | Restore the Anti-tumor Activity of the Immune System in Glioblastoma Patients | |
| 10:10-10:40 | Fatih Inci (Bilkent University, Turkey) | Κ |
| | Decoding Cell Dust: Unlocking Insights for Disease Diagnosis | |
| 10:40-11:10 | Coffee Break / Poster Session | |
| 11:10-11:30 | Angela Assunta Lopedota (Università degli studi di Bari Aldo Moro, Italy) | - 1 |
| | Beyond Nanoparticles: Advanced Microencapsulation Techniques in Paediatric | |
| | Pharmaceutical Formulations - A Comprehensive Analysis of the Prilling/Vibration | |
| | Method and Case Studies | |
| 11:30-11:45 | Antonia Mancuso (Magna Graecia University of Catanzaro, Italy) | 0 |
| | Nanomedicine as potential response in vitiligo disorder and social impairment | |
| 11:45-12:15 | Firat Guder (Imperial College London, UK) | K |
| | Wearable reconfigurable metamaterials and origami inspired implantable sensors for | |
| | human-machine interfaces | |
| 12:15-12:45 | Francesco Trotta (University of Turin, Italy) | K |
| | Cyclodextrin based cross-linked and branched polymers: synthesis and applications | |
| 12:45-13:15 | Poster Session II | |
| 13:15-14:15 | Lunch | |
| 14:15-14:45 | Pavel Banáš (CATRIN - Palacky University Olomouc, Czech Republic) | K |
| | Advancing Molecular Simulations: The Role of Force Field Development and Big Data | |
| | Mining | |
| 14:45-15:15 | Arjan Durresi (Indiana University Indianapolis, USA) | K |
| | Developing Trustworthy, Causal, and Aligned Artificial Intelligence | |
| 15:15-15:45 | Aitor Mugarza (ICN2, Spain) | K |
| | Atomically precise porous graphene nanoarchitectures: from synthesis to devices | _ |
| 15:45-16:00 | Alex Laikhtman (Holon Institute of Technology (HIT), Israel) | О |
| | Plasma-Treated and Doped WS2 Nanoparticles for Energy Applications | |
| 16:00-16:30 | Coffee Break / Poster Session | |
| 16:30-18:45 | PARALLEL SESSION 1 (PHD STUDENTS) | |
| 16:30-18:45 | PARALLEL SESSION 2 (ALBANIA) | |

THURSDAY OCTOBER 31, 2024

| | PARALLEL SESSION 1 - PhD Students | |
|-------------|--|---|
| 16:30-16:40 | Nerea de Mariscal i Molina (Institut Català de Nanociència i Nanotecnologia, Spain) | 0 |
| | Point-of-Care Haemoglobin Detection for Anaemia Diagnosis | |
| 16:40-16:50 | S. Irem Kaya (University of Health Sciences, Turkey) | 0 |
| | Selective determination of bortezomib with a plant-based nanoflower-modified | |
| | electrochemical MIP sensor | |
| 16:50-17:00 | Huseyin Senturk (Ege University, Turkey | 0 |
| | Impedimetric aptasensor for the determination of patulin mycotoxin with levan modified | |
| | electrodes | |
| 17:00-17:10 | Fatma Selen Gunden (Ege University, Turkey) | 0 |
| | A new approach in electrochemical biosensing technology using 3D printed carbon | |
| | electrodes | |
| 17:10-17:20 | Riyako Matsuoka (Keio University, Japan) | 0 |
| | Electroreduction of Furfural on a Diamond Electrode | |
| 17:20-17:30 | Risa Ogawa (Keio University, Japan) | 0 |
| | Electrochemical Measurement of Antiglaucoma Drug Brimonidine Using Boron-Doped | |
| | Diamond Microelectrodes | _ |
| 17:30-17:40 | Ziping Zhang (Keio University, Japan) | 0 |
| | An Indirect Electrochemical Detection of Creatinine In Urine Samples Using A Boron- | |
| | Doped Diamond Electrode | _ |
| 17:40-17:50 | Esma Yildiz (Ege University, Turkey) | 0 |
| | Electrochemical Determination of Uric Acid by Halloysite Nanotube Modified Electrode | _ |
| 17:50-18:00 | Liridon Sopaj (University of Prishtina "Hasan Prishtina", Republic of Kosovo) | 0 |
| | Acute exposure to ambient fine particulate matter (PM 2.5) extracted from Prishtina and | |
| 10.00.10.10 | Obiliq urban area induces cardiac electrophysiological changes in rats | _ |
| 18:00-18:10 | Kerem Tok (Ege University, Turkey) | 0 |
| | Functionalization of Magnetic Nanoparticles with Tryptophan and Isatin for Enhanced | |
| 40 40 40 20 | Glioblastoma Treatment | 0 |
| 18:10-18:20 | VIlaznim Mula (University "Fehmi Agani" in Gjakova, Republic of Kosovo) | 0 |
| | Monitoring Volatile Organic Compounds in Indoor and Outdoor Air Using Passive | |
| | Sampling in Milan, Italy | |

THURSDAY OCTOBER 31, 2024

| | PARALLEL SESSION 2 Albania | |
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| 16:30-16:45 | Gledjan Caka (University of Tirana, Albania) | Ο |
| | Analysis of mutations affecting the KLK15 gene in prostate cancer | |
| 16:45-17:00 | Ledia Vasjari (University of Tirana, Albania) | 0 |
| | Behind the curtains of nanotechnology | |
| 17:00-17:15 | Avni Berisha (University of Prishtina / NanoAlb, Republic of Kosovo) | 0 |
| | Exploring Aryl Radicals as Multifunctional Agents for (Nano)material Surface | |
| | Modification: A Comprehensive Review with a Focus on DFT Analysis | |
| 17:15-17:30 | Kledi Xhaxhiu (NanoAlb, Albania) | 0 |
| | Challenges in Assessing Albanian Wine Quality through Their Total Antioxidant Content | |
| 17:30-17:45 | Arjan Korpa (University of Tirana, Albania) | 0 |
| | Rhodamine B Decomposition in Water Using Metal-Doped TiO2 Photocatalysts supported | |
| | on Zeolite or Nano-Graphite Substrates | |
| 17:45-18:00 | Fetah Podvorica (University of Prishtina, Republic of Kosovo) | 0 |
| | Chemical grafting of coal surface with mixed alkyl-aryl layers | |
| 18:00-18:15 | Anila Hoda (Agricultural University of Tirana, Albania) | 0 |
| | Integrating nanotechnology with mercuric reductase from bacteria for enhanced mercury | |
| | bioremediation | |
| 18:15-18:30 | Sefer Avdiaj (University of Prishtina, Republic of Kosovo) | 0 |
| | Nanoscale Insights into Helium Diffusion and Permeation in Polymer Bottles | |

FRIDAY NOVEMBER 01, 2024

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|-------------|---|---|
| 09:00-09:20 | Filiz Kuralay (Hacettepe University, Turkey) | I |
| | Polymer-based surfaces and their sensing applications | |
| 09:20-09:40 | Pinar Kara (Ege University, Turkey) | 1 |
| | Title to be defined | |
| 09:40-09:55 | Sezin Yuksel (Ege University, Turkey) | 0 |
| | A Graphene Oxide-Based Electrochemical Biosensor for the Detection of Pathogenic | |
| | Microorganisms | |
| 09:55-10:25 | Arzum Erdem Gürsan (Ege University, Turkey) | K |
| | Recent electrochemical biosensors with nanomaterials based applications: | |
| | Biointeractions to Diagnostics | |
| 10:25-11:00 | Coffee Break | |
| 11:00-11:15 | Francesca Garganese (University of Bari Aldo Moro, Italy) | 0 |
| | Applications of Oxford Nanopore Technologies to Juvenile Aphrophoridae Niche | |
| 11:15-11:35 | Anila Bello (UMass Lowell, USA) | 1 |
| | Per- and Polyfluoroalkyl Substances (PFAS) in the Environment: An Overview of Three | |
| | Case Studies | |
| 11:35-11:55 | Valentin Mirceski (University of Skopje, North Macedonia) | 1 |
| | Methodological development of voltammetry: theory and applications | |
| 12:00 | CLOSING & NANOBALKAN2025 ANNOUNCEMENT | |
| | 5-555 555 | |