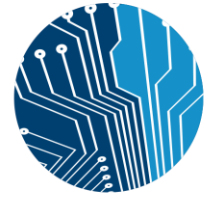




Micro Nano & ChipsTech 2025 International Conference



12th International Conference on Micro-Nanoelectronics, Nanotechnology, and MEMS

November 6–9, 2025, at the Cultural Center of Chania
Andrea Papandreou 74, Chania 73134, Greece

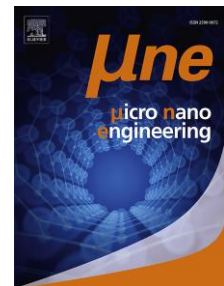
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Friday 7th of November Poster Session I

n.	Presenter	Company / Organization	Title
2	Ao Wang	Beihang University	Controllable Assembly and Disassembly of Microparticles Under Light-induced Electric fields
4	Filippos Farmakis	Democritus University of Thrace	Development of Silicon Nanoparticles/Graphene Aerogel Composite Negative Electrodes for Lithium-Ion Batteries
6	Dimosthenis Ioannou	NCSR Demokritos	Next-Generation Biopolymeric Surfaces: Where Sustainability Meets Functionality
8	Efi-Maria Papia	NCSR Demokritos	Quantitative characterization of porous structures through computational metrology and machine learning
10	Maria Kainourgiaki	National Technical University of Athens	Chemical Sensing Using 2D Materials Functionalized with Polymer Films
12	Dimitra Tsounidi	NCSR Demokritos	Microscope-based Multi-Analyte-Reflectance-Spectroscopy (μ -MARS): Application in multi-analyte determination
14	George Papavieros	Nanometrisis Private Company	Quantitative characterization of hierarchical surfaces created by laser interferometry and plasma etching techniques
16	Stavros Chatzandroulis	NCSR Demokritos	Oligonucleotide Detection on Graphene Oxide Biosensor
18	Alexia Papadopoulou	FORTH	Process Design Kit (PDK) Development for the FORTH CNTFET technology
20	Charalampos Katsogridakis	NCSR "Demokritos"	Towards Environmentally- friendly Lithographic Processes with Sulfonium-based PAGs: Positive and Negative tone imaging in Chitosan films at 248nm
22	Manikandan N	Indian Institute of Technology Delhi	Computational analysis of Bio-FET based sensor for GABA detection
24	Iliana Ntovolou	University of the Aegean	Functional Bacterial Cellulose Membranes via Imprinting and Surface Chemistry Modification
26	Vasiliki Tselepi	University of the Aegean	Flexible polymeric heat pipes incorporating surfaces of extreme wettability for electronic device cooling
28	David Motaung	University of the Free State	Scientific advances in gas sensing for environmental, industrial, and indoor air-quality monitoring
30	Tsvetozar Tsanev	Technical University of Sofia	Investigation of Different Electrode Topologies and Electrode Nano-structuring on Porous Anodic Aluminum Oxide for Biosensing Applications
32	Alex Kondi	NCSR Demokritos	Quantifying micro-nano surface complexity with multiscale entropy
34	Prem Dheeraj Mortha	Indian Institute of Technology Bombay	Modelling of Ultrafast Laser-Matter Interactions using Two-Temperature Model coupled with Molecular Dynamics
36	George Mitrousis	DUTH/FORTH-IESL	Exploiting “frozen” down-state MEMS structures on the development of RF MEMS capacitive switches
38	Vasyl Shvalya	Jozef Stefan Institute	Optical Performance Tuning of AuNPs with Cold Plasmas
40	Odysseas Tsilipakos	National Hellenic Research Foundation	Controlling the mode profile and dispersion in waveguides with metasurface boundaries
42	George Dimitrakopoulos	Aristotle University of Thessaloniki	Structural Properties and Interfacial Characteristics of Pt/Co/Gd Heterostructures
44	Dimitris Barmpakos	University of West Attica	A Tattoo Paper Transfer Technique for Flexible Electronics Integration: Application to Printed PEDOT:PSS onto Kapton Substrate
46	Andreas Tsormpatzoglou	Department of Informatics and Telecommunications, University of Ioannina	DeteZnOs: Budget-Friendly and Sustainable ZnO Nanostructure Photodetectors for UV-VIS Applications
48	Arezki Benfdila	Mouloud Mammeri University, Tizi-Ouzou	Dielectric Materials for Advanced FET Transistors
50	Visvini Glykeria	NCSR Demokritos	Hybrid multifunctional materials comprising micro-/nano-particles for nanoimprint lithography

Saturday 8th of November Poster Session II

n.	Presenter	Company / Organization	Title
1	Nikolaos Chazarakis	Foundation of Research and Technology Hellas	Investigation of localized laser annealing for ohmic contact formation for GaN based HEMTs
3	Antonios Stavrinidis	FORTH	Lateral AlGaIn/GaN Schottky Barrier Diode for satellite energy harvesting applications
5	Nefeli Dimogerontaki	NCSR Demokritos	Controlled Shaping of Microstructured Polymer Surfaces by Nanoimprint Lithography and Thermal Reflow
7	Filippos Farmakis	Democritus University of Thrace	Application of Dry Anode Process Techniques in Microstructured Perovskite as Active Material for Lithium-Ion Batteries
9	Χαρίδημος Κολιακουδάκης	Department of Materials Science and Engineering UOC	Engineering Ohmic Contacts in p-type NiO Thin Films for Advanced NiO/n-Si Heterojunction Structures for Indoor Photovoltaic Applications
11	Ευσταθια Χριστογιαννοπουλου	Εθνικό και Καποδιστριακό Πανεπιστήμιο Αθηνών	Photocrosslinking of PVA with Sodium Metatungstate: A Water-Processable and Non-Toxic Alternative for Lithographic Applications
13	Hongyan Sun	Beihang University	Magnetic Cellular Robots: Precision Cytokine Delivery for Tumor Therapy
15	Loukas Michalas	DUTH/FORTH-IESL	Considering reducing gold wasted during the development of microwave and RF MEMS structures
17	Syed Abdul Ahad	University of Limerick	Dual-Cation Alloying: A Path to High-Capacity Alkali-Ion Anodes
19	Eleftheria Brigitta Souvatzi	University of West Attica	Design and Evaluation of a Smart Thermotherapy Dressing for Wound Disinfection and Healing
21	Panagiotis Sarkiris	NCSR Demokritos	Enhancing the SEM-based metrology of nanostructured step-like surfaces: Edge effects and their mitigation
23	Filomila Komninou	Aristotle University of Thessaloniki	Interfacial Properties of GaN/AlN pseudomorphic superlattices
25	Vassilios Constantoudis	NCSR Demokritos	Anatomy of randomness in rough mound nanosurfaces: theory, modeling and experimental results
27	Alexandra Gkolosi	National and Kapodistrian University of Athens	Cross-Linking of PVA-Based Coatings using Sodium and Ammonium phosphomolybdate
29	Arezki Benfdila	Mouloud Mammeri University, Tizi-Ouzou	Towards Nanosheet FETs and Post CMOS Technology
31	Vasiliki Tselepi	University of the Aegean	Tackling water scarcity by using advanced technologies in business-academia-society cooperation
33	Vasiliki Boutzouroglou	Democritus University of Thrace	Observation of resistive switching in devices based on direct current reactive sputtered silicon nitride thin films
35	Μιχαήλ Γεώργιας	MNTL DUTH	Accessible, HighResolution LCD Lithography for Microelectrode Fabrication: Application to Inkjet-Printed PEDOT:PSS Temperature Sensors
37	George Zardalidis	DUTH	Role of morphology in lithium-ion insertion and extraction behaviour of microstructured perovskite particles
39	Nikolaos Papanikolaou	NCSR Demokritos	Silver-coated nanostructured boehmite surfaces as substrates for Surface Enhanced Raman Spectroscopy
41	Maria Karani	Centre for Research & Technology,	Aerosol Jet Printing for Additive Microfabrication: Process, Fundamentals and Demonstration Studies
43	George Chatzigiannakis	NCSR Demokritos	Chemical Vapor Deposition of Silicon Films on Metallic Filaments. Computer Aided Design of the Process and Initial Experimental Results
45	Irini Stavrakaki	NKUA	pH-Responsive Poly(L-Histidine) Nanoparticles for Enhanced Delivery of Platinum-Based Chemotherapeutics