

CONFERENCE PROGRAM

Saturday November 5th

09:30 - 10:50

Materials & Methods

S1

Chair: Makarona Eleni

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|-------|--|--|
| 9:30 | Role of stacking faults in defect introduction and radiation-enhanced dislocation glide in III-Nitride epilayers | Dimitrakopoulos Georgios
<u>(Invited)</u> |
| 9:50 | Structural properties and behavior of threading dislocations in high mobility InN epilayers | Chatzopoulou Polyxeni |
| 10:05 | Theoretical investigation of the plasmonic properties of SmCo5 nanomagnets | Antoniou Efstratios |
| 10:20 | Multifunctional Performance of Hybrid Epoxy Resin/Ceramic Particles Nanodielectrics | Psarras Georgios |
| 10:35 | New fluoropolymer for surface modification via UV exposure | Chatzichristidi Margarita |

10:55-11:45

Surfaces

S2

Chair: Gogolides Evaggelos

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|-------|--|--|
| 10:55 | Status and perspective of alternative manufacturing methods for nano-enabled components and surfaces | Kehagias Nikos
<u>(Invited)</u> |
| 11:15 | A chaos-based approach to the characterization of the complexity of micro- and nanostructured surfaces | Kondi Alex |
| 11:30 | Towards a scale-enhanced microscopy enabled by Fourier Spectra Stitching method | Stai Eleni |

11:45 - 12:00

Coffee Break

S3

12:05 - 13:20

Electronic Devices II

Chair: Xanthakis John

12:05	Random Telegraph Noise Analysis of RRAM Devices: A systematic approach on unstable filaments	Vasileiadis Nikolaos
12:20	Effect of SOI substrate on MIS silicon nitride resistance switching structures	Mavropoulis Alexandros- Eleftherios
12:35	Pulse-stream impact on recognition accuracy and power consumption of reservoir computing from SiO ₂ -based memory devices	Tsioustas Charalampos
12:50	TCAD simulation of TIPS-Pentacene:PS OFETs	Kaimakamis Tryfon
13:05	Temperature characterization and modeling of FORTH GaN HEMT using Y-Function methodology	Makris Nikolaos

13:20 - 14:20

Break

14:20 - 16:00

Industrial Session & Networking

Chair: Konofaos Nikolaos

14:20	HPHOS	Hontzopoulos Elias
14:35	Sunlight	Stamatis Asimis
14:45	INEM & Weasic	Farmakis Filippos TBA
15:00	Nanoelectronics pilot line in Greece: Myth or reality?	Konstantinidis George
15:15	Ascent+	Theodorou Christoforos
15:30	Innovation-el: An open access Greek Research Infrastructure for Nanotechnology, Advanced Materials and Micro/Nanoelectronics	Gogolides Evaggelos
15:45	HETIA	Zervakis Emmanuel

Industrial & Networking

16:00 - 16:45

Coffee Break

16:00 - 16:45

Poster Session

16:50 - 18:35

Devices

Chair: Papaioannou George

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|-------|---|---|
| 16:50 | Resistive switching devices for data storage and neuromorphic computing | Tsoukalas Dimitrios
<u>(Invited)</u> |
| 17:05 | Quantum walks on graphene nanoribbons under the effect of external potentials | Varsamis Georgios |
| 17:20 | Microring Resonator-Assisted Semiconductor Optical Amplifier Direct Amplification and Modulation | Zoiros Kyriakos |
| 17:35 | Analysis of Quantum Computing Surface Codes implemented on Quantum Dot spin-based systems | Konofaos Nikolaos |
| 17:50 | A Microfluidic System for Biomedical Applications | Koutsis Tzoulia |
| 18:05 | A platform of directly-immersible microfluidics-free silicon photonic probes as an enabling tool for the dairy industry | Makarona Eleni |
| 18:20 | Field emission from a subnanometric carbon tip: experiment and theory | Xanthakis John |

21:00

Conference Dinner