



POSTER SESSION PROGRAM

Venue: NCSR "Demokritos" Congress Center

Poster Sessions will be held at the "Small Amphitheater" adjacent to the Main Auditorium

Friday November 3rd, 2023

Poster Session I (16:25-18:00)

Poster No	Presenter	Title
I.1	Miltiadis K. Nakos	<i>Formulation of Analytical Drain Current Compact Model for Nanoscale Triple-Gate FinFETs to Continuous and Symmetric.</i> M. K. Nakos, A. Tsormpatzoglou, T. A. Oproglidis, D. H. Tassis, C. T. Angelis and C. A. Dimitriadis
I.2	Elias Aperathitis	<i>All-oxide heterodiodes formed by p-NiO:(Nb,N) and 1-D and 3-D TiO₂ nanomaterials</i> I. Syngelakis, Ch. Aivalioti, E. Manidakis, M. Androulidaki, K. Tsagaraki, M. Kayambaki, N. Pelekanos, A. Klini and E. Aperathitis
I.3	Angelica Maria Gerardos	<i>Nanoparticles from Hydrophobic Hyperbranched PLMA Homopolymers with -COOH End Groups as Effective Nanocarriers for Bioimaging Applications</i> A. M. Gerardos and S. Pispas
I.4	Panagiotis Skaltsounis	<i>A closed-loop continuous flow PCR microdevice on PCB</i>
I.5	Vasiliki Tselepi	<i>Stable superhydrophilic and superhydrophobic surfaces incorporated inside ultra-thin vapor chambers for heat transfer applications.</i> V. Tselepi, D.Nioras, E. Tsounai , E. Gogolides , K. Ellinas
I.6	Savvas Papamakarios	<i>Electromagnetic metamaterial for IR energy harvesting in photovoltaics using multiphoton lithography.</i> S. Papamakarios, M. Kafesaki and M. Farsari
I.7	Georgia Geka	<i>Nanostructured silver substrates for immunosensing of cancer markers through photoluminescence</i> G. Geka, A. Kanioura, I. Kochylas, V. Likodimos, S. Gardelis, A. Dimitriou, N. Papanikolaou, M. Chatzichristidi, A. Economou, S. Kakabakos and P. Petrou
I.8	Angelica Maria Gerardos	<i>Hyperbranched copolymers as delivery nanoplatfoms for biorelevant compounds</i> A. Balafouti, A. M. Gerardos and S. Pispas

I.9	Mariana Daniela Sosa	<i>Superhydrophobic membranes based on silicone nanofilaments coatings.</i> M. D. Sosa, P. Shah, M. Kappl and H.-J. Butt
I.10	Myrto K. Filippidou	<i>Integration of Microfluidic Elements on Sensing Devices</i> M.K. Filippidou, S. Ntouskas, E. Skotadis, G. Tsekenis, D. Tsoukalas, A. Tserepi and S. Chatzandroulis
I.11	George Papavieros	<i>Pixel size effect on Line Edge Roughness (LER)</i> G. Papavieros, V. Constantoudis, N. Vouroutzis and E. Gogolides
I.12	Emmanouil Anthoulakis	<i>Hybrid aptamer/nanoparticle-based electrochemical biosensor for tebuconazole detection</i> E. Anthoulakis, M. Tsigkourakos, E. Skotadis, E. Koutsoumpeli, G. Tsekenis and D. Tsoukalas
I.13	Eleni Stai	<i>Computational analysis of the anisotropy of SEM images to quantify nanowire verticality and roughness of inclined surfaces after plasma etching.</i> E. Stai, V. Constantoudis, A. S. Kastania, A. Tserepi and E. Gogolides
I.14	Spyridon Angelopoulos	<i>Device Based on Hall Sensors for Steel Health Monitoring</i> S. Angelopoulos, G. Stamou, A. Ktena, E. Hourdakis and E. Hristoforou
I.15	Efi-Maria Papia	<i>Quantitative characterization of the randomness of pore structures: Application in membranes before and after plasma etching</i> E-M. Papia, V. Constantoudis, D. Ioannou, A. Zeniou and E. Gogolides
I.16	Iren G. Stavrakaki	<i>Encapsulation and release of anticancer drug & characterization of the loaded Nanoparticles [PEO-b-P(L-Histidine)]</i> I.G. Stavrakaki, H. Iatrou
I.17	G. Kleitsiotis	<i>Utilizing substrate-crack enhanced ultra-sensitive strain-gauges for on-edge maritime engine shaft health monitoring applications.</i> G. Kleitsiotis, P. Bousoulas, V. Aslanidis, G. Rousopoulos, Ch. Papadopoulos and D. Tsoukalas
I.18	Dimitra Kourti	<i>Detection of Salmonella typhimurium in milk using an immersible optical Immunosensor</i> D. Kourti, M. Angelopoulou, K. Misiakos, E. Makarona, A. Economou, P. Petrou, and S. Kakabakos
I.19	Maria Kainourgiaki	<i>Mercury and Lead Ion Detection Using Single Layer MoS₂-based Sensors.</i> M. Kainourgiaki, M. Tsigkourakos, S. Kitsios, E. Skotadis, E. Aslandis, G. Tsekenis and D. Tsoukalas
I.20	Christina Kasoutsa	<i>Study of ultraviolet irradiation effect on fluoropolymers surfaces</i>

		Ch. Kasoutsas, Th. Manouras, M. Vamvakaki, P. Petrou and M. Chatzichristidi
I.21	Ioannis Tournis	<i>Novel PVDF membranes modified with carbon nanodiscs for membrane distillation applications.</i> I. Tournis, K.N. Panagiotaki, M. Subrati, Z. Sideratou, E. Kouvelos and A. Sapalidis
I.22	Adelaida Shahu	<i>Supramolecular synthesis and study of light-harvesting self-assembly consisting of functionalized BODIPY-dyes</i> A. Shahu, V. S. Petrakis, Th. Menidiati, P. Argitis and G. Pistolis
I.23	Nikos Konofaos	<i>Efficient encoding of qutrits for performing low error unary and controlled operations</i> D. Ntalaperas and N. Konofaos
I.24	Georgios Polymeris	<i>A novel thermoluminescence method for analyzing electron transitions in excited states for radiation dosimetry</i> P. G. Konstantinidis, E. Tsoutsoumanos, G. Kitis and G. S. Polymeris
I.25	Konstantina Turlouki	<i>3D Printed CHGs as an Anti-counterfeiting Strategy in Food Packaging Products</i> K. Turlouki, A. Tsakas, N. Kehagias and D. Alexandropoulos
I.26	Adam Adikimenakis	<i>AlN/GaN HEMTs on Si (111) substrates grown by PA-MBE</i> A. Adikimenakis, K. Tsagaraki, P. Chatzopoulou, Th. Kehagias, G.P. Dimitrakopoulos, A. Kostopoulos, M. Kayambaki, G. Konstantinidis and A. Georgakilas
I.27	Anastasios Lagoyannis	<i>Exploring the possibility of Li-doping on chemically-grown ZnO with novel nuclear physics techniques</i> G. P. Papageorgiou, A. Ziagkova, A. Lagoyannis, Z. Siketic, D. Cosic and E. Makarona
I.28	Eleni Makarona	<i>Nanotechnology and Cultural Heritage: Investigating the use of ZnO nanostructures for the conservation of deteriorated wood</i> Ch. Sperantza, E. Makarona, G. Vekinis, S. Boyatzis and A. Pournou
I.29	Loukas Michalas	<i>High-power RF MEMS capacitive switches: Considering the self-actuation effect</i> L. Michalas, G. Stavrinidis, A. Stavrinidis, K. Tsagaraki and G. Konstantinidis
I.30	Maria Voumvouraki	<i>Disposable Ag-sputtered electrochemical sensors for on-site and on-body Cl⁻ assay</i> M. Voumvouraki, A. Economou, D. Soulis, Ch. Kokkinos, M.K. Bikouvaraki and T. Speliotis

Saturday November 4th, 2023

Poster Session II (16:15-17:45)		
Poster No	Presenter	Title
II.1	Anastasia Soultati	<i>Enhanced performance and environmental stability of ternary organic solar cells using metalloporphyrins as third component.</i> A. Soultati, E. Polydorou, A.G. Coutsolelos, I. Karatasios, V. Kilikoglou, P. Argitis, and M. Vasilopoulou
II.2	Maria Androulidaki	<i>Study of the optical properties and stoichiometry of Silicon Nitride thin films grown on different substrates</i> M. Androulidaki, A. Stavrinidis, C.C. Katsidis, L. Michalas, K. Tsagaraki and G. Konstantinidis
II.3	Konstantina Turlouki	<i>Fabrication of micro-lenses array for in-situ and in-vivo multi-spot imaging</i> K. Turlouki, T. Tachtsidis, A. Nardini, B.S. Kariman, R. Martínez Vázquez, R. Osellame, M. T. Raimondi, G. Cerullo, G. Chirico and N. Kehagias
II.4	Filippos Farmakis	<i>Silicon Nanoparticles Encapsulated by Carbonized Polydopamine Layer as an Anode for Lithium-ion Batteries.</i> I. Lefa, G. Charalampopoulos, D. P. Argyropoulos, G. Moisiadou, M. Daletou and F. Farmakis
II.5	Filippos Farmakis	<i>Biosensor for DNA detection based on Metal Organic Frameworks</i> A. Konstantaras, F. Farmakis, K. Chlichlia
II.6	Ioannis Sarris	<i>Electric field-driven water desalination across scales</i> F.Sofos, V. Bartzis, Th. Karakasidis, and I. Sarris
II.7	Dimosthenis Ioannou	<i>A novel method for real time monitoring of wetting transition of underwater superhydrophobic surfaces and membranes: Application in membrane desalination</i> D. Ioannou, K. Ellinas and E. Gogolides
II.8	Maria Karnachoriti	<i>Temperature dependent photoluminescence (PL) emission in CsPbBr₃ single crystals: micro-PL profiles and transient effects</i> A.G. Kontos, I. Varveris, M. Panagopoulou, M. Karnachoriti, V. Arsenis, D. Y. Chung, W. Lin, M.G. Kanatzidis and Y.S. Raptis
II.9	Maria-Athina Apostolaki	<i>Plasmonic-photonic metal-semiconductor inverse opal films as sensitive SERS sensors</i> M.-A. Apostolaki, E. Sakellis, D. Davazoglou, S.Gardelis and V. Likodimos
II.10	Adam Adikimenakis	<i>Effects of polarization and interface charges on InN nano-heterostructures</i> A. Asteris, C.C. Katsidis, A. Adikimenakis and A. Georgakilas

II.11	Marianna Kotzabasaki	<i>Metal-Organic Frameworks (MOF)-based nanomaterials as a novel route for smart agrochemical waste remediation</i> M. Kotzabasaki, G. Aggeli, C. Maraveas and T. Bartzanas
II.12	Anastasia Strekla	<i>Pickering emulsions synthesized from iron oxide nano-colloids and used as agents for the residual oil displacement in porous media.</i> A. Strekla, Ch. Ntente, M. Theodoropoulou and Ch. Tsakiroglou
II.13	Martha Pylarinou	<i>Bilayer TiO₂/Mo-BiVO₄ photocatalytic films for enhanced light harvesting and charge separation.</i> M. Pylarinou, E. Sakellis, S. Gardelis and V. Likodimos
II.14	Maria Androulidaki	<i>Photonic and plasmonic responses of silicon carbide nanopillars and their aerogel clones</i> M. Androulidaki, J. Boussey, K. Tsagaraki, A. Stavrinidis, A. Kostopoulos, K. Papachristopoulou, G. Konstantinidis, K.Zekentes and N. Vainos
II.15	Dimitrios Nioras	<i>Surfaces of Extreme wettability for condensation control and fog collection</i> D.Nioras, E. Gogolides and K. Ellinas
II.16	Dimitrios Nioras	<i>Carbyne-enriched coating of micro and nanotextured PMMA surfaces for enhanced durability and antibacterial effect</i> D. Nioras, D. Kefallinou, D. Ioannou, A. Brigadin, A. Tserepi and E. Gogolides
II.17	Nikos Konofaos	<i>Simulation Strategies for Spin-based Semiconductor Quantum Dots</i> K. Prousalis and N. Konofaos
II.18	Vasileios Charalampidis	<i>Laser processing for plasmonic holographic sensors in solids and aerogels</i> V. Charalampidis, E. Bagiokis, K. Papachristopoulou and N.Vainos
II.19	Dimitra Valadorou	<i>Organ – on – chip with integrated electrochemical biosensor</i> D.Valadorou, A. Kanioura, M. K. Filippidou, P. S. Petrou, S. Chatzandroulis and A. Tserepi
II.20	Nikos Vasileiadis	<i>Resistive Memories based on Silicon Nitride Dielectrics: from resistive filaments to applications.</i> N. Vasileiadis, A. Mavropoulis, P. Normand, I. Karafyllidis, G. Ch. Sirakoulis and P. Dimitrakis
II.21	Lazaros Grigoriadis	<i>Environmental friendly mortar with waste marble sand</i> L. Grigoriadis, M. Amenta, E. Christodoulou, A. Ekmektsis, A. C. Mitropoulos, Z.S. Metaxa
II.22	Theodoros Manouras	<i>Self-assembled PDMAEMA-b-PHPMA diblock copolymers with biocidal properties</i>

		Th. Manouras, A. Vagias, E. Koufakis, P. Müller-Buschbaum, S. H. Anastasiadis, S. Pissadakis and M. Vamvakaki
II.23	Emmanouil Gagaoudakis	<i>Metallic printed patterns as microwave perfect absorbers</i> E. Gagaoudakis, E. Mantsiou, K. Dovelos, A. Paraskevopoulos, V. Vardakastani, D. Tzarouchis, M. Koutsoupidou, P. Kosmas, C. Spandonidis, F. Giannopoulos, A. Petsa and V. Binas
II.24	Ioannis Spanos	<i>Additive manufacturing of 3D electromagnetic metamaterials and chips via liquid metal injection</i> I. Spanos and C. J. Stevens
II.25	Petros Katsoufis	<i>Study of NiO/neolacane-diazonafluquinone nanocomposites polymers as new lithographic materials</i> P. Katsoufis, E. Makarona, V. Psycharis, P. Tzevelekidis and M. Chatzichristidi
II.26	Dimitra Tsounidi	<i>Evaluation of Carbyne films as biosensing surfaces for biomolecules determination through White Light Reflectance Spectroscopy biosensor</i> D. Tsounidi, P. Oikonomou, At. Botsialas, M. Aleksandrova, T. Tsanev, G. Kolev, S. Andreev, A. Tserepi, A. Brigadin, E. Gogolides, P. Petrou and I. Raptis
II.27	A. Apostolakis	<i>Printability Study of Ink-Coatings Containing TiO₂ or SiO₂ Nanoparticles on Anodized Aluminium</i> A. Apostolakis, D. Bampakos, S. Theohari, I. Iakovidis, S. M. Poljaček and G. Kaltsas
II.28	Frisela Skendaj	<i>Optical Temperature Detection, Utilizing Screen-Printed Thermochromic Inks</i> F. Skendaj, M.A.Mesiri, G. E. De la Cruz Karnavas, A. Pilatis, D. Bampakos, A. Apostolakis, D.N. Pagonis and G. Kaltsas
II.29	Tzoulia Koutsis	<i>A microfluidic system for evaluation of in vitro cell cultures through TEER and Electrical Impedance Spectroscopy</i> T. Koutsis, A. Kallergis, S. Taka, N. G. Papadopoulos and G. Kaltsas
II.30	Georgia Samara	<i>Electrical Characterization on Single Layer Graphene Devices with Interdigitated Electrodes</i> G. Samara, A. Mavropoulis, N. Vasileiadis, V. Ioannou-Sougleridis, P. Normand, K. Papagelis, C. Theodorou and P. Dimitrakis