

Sunday September 23

17:00-18:30	Registration	
19:00-19:30	Invited Lecture: <i>Η έρευνα στη Στερεά Κατάσταση και τα Υλικά στην Ελλάδα</i>	Theodoros Karakostas
19:30	Welcome Reception	

Monday September 24

S1 ^o	Photonics and optoelectronics –Electronic and optical properties, semiconductors and devices	
9:00-9:30	Invited Lecture (To be confirmed)	Henrique Leonel Gomes
9:30-10:00	Invited Lecture: <i>Plasmonics for Enhanced Light Harvesting Applications</i>	<u>Elefterios Lidorikis</u>
10:00-10:15	Performance enhancement of rigid and flexible ZnPC:C ₆₀ bulk heterojunction solar cells via interface optimization	<u>S. Kassavetis</u> , P. Karagiannidis, T. Mete, C. Koidis, W. Schindler, S. Logothetidis, and K. Fostiropoulos
10:15-10:30	Electrical Characterization Of Pd Schottky Contacts On RF-sputtered ZnO Films	<u>Christos Tsiarapas</u> , Dimitra Girginoudi and Nikolaos Georgoulas
10:30-10:45	Study of AlN films deposited on Si(100) for micro- and opto- electronic applications	<u>K. Marousis</u> , G.E. Evangelakis and E.K. Evangelou
10:45-11:00	Single and multilayers of two-dimensional arrays of Si nanocrystals for photovoltaics; Structural and optical characterization	<u>S. Gardelis</u> , A.G. Nassiopoulou, P. Manousiadis, A. Gkanatsiou, N. Frangis, and Ch. B. Lioutas
11:00-11:15	SiO ₂ /Si ₃ N ₄ /Al ₂ O ₃ memory capacitors: Effect of oxygen source in ALD chemistry	<u>N. Nikolaou</u> , V. Ioannou-Sougleridis, P. Dimitrakis, P. Normand, D. Skarlatos, K. Giannakopoulos, K. Kukli, J. Niinistö, M. Ritala and M. Leskelä
11:15-11:30	Towards Answering Technological and Provenance Questions of Archaeological Glass Materials by Using Luminescence Techniques	<u>I.K. Sfamba</u> , G. S. Polymeris, N. Zacharias, G. Kitis, J. Henderson
11:30-12:00	Coffee Break	

S5°	Polymer, organic materials, biomaterials and self-assembled materials	
12:00-12:30	Invited Lecture: <i>Control of charge injection/extraction barriers in organic optoelectronic devices</i>	P. Argitis
12:30-12:45	Polymorphism in liquids and liquid crystals consisting three block amphiphilic molecules	Stavros D. Peroukidis
12:45-13:00	Polymer-mediated Synthesis of Platinum Nanodendrites via a Wet-chemical Route	<u>S. Mourdikoudis</u> , J. Perez-Juste, I. Pastoriza-Santos ¹ and L.M. Liz-Marzan
13:00-13:15	Electronic structure investigation of a naphthalene bisimide derivative (TAA-NBI-EtHe)/ Gold interface by Photoelectron Spectroscopies	<u>Tsikritzis Dimitris</u> and Kennou Stella
13:15-13:30	Electrical Conduction Mechanisms of Planar Tungsten Polyoxometalate Self-Assembled Mono- And Bi-Layer Junctions	<u>D. Velessiotis</u> , A. M. Douvas, P. Dimitrakis, P. Argitis and N. Glezos
13:30-13:45	Isothermal Depolarization Current Measurements in Epoxy Resin – ZnO Composites	<u>G.T. Malliaros</u> , I. Stavrakas, A. Kanapitsas, C. Tsonos, G.C. Psarras and D. Triantis
13:45-14:00	Electrical Measurements on Polyurethane Blends	M. Vartholomaios, <u>I. Stavrakas</u> , A. Kanapitsas, C. Tsonos, Dimos Triantis
14:00-15:30	Lunch Break	
S1°	Photonics and optoelectronics –Electronic and optical properties, semiconductors and devices	
15:30-16:00	Invited Lecture: <i>Nonlinear Photonic Applications of Graphene</i>	S. Couris
16:00-16:15	Nonlinear Optical Response of Carbon Nanostructures	<u>I. Papagiannouli</u> , M. Akriotou, D. Potamianos, A. B. Bourlinos, A. Bakandritsos and S. Couris
16:15-16:30	Neutral Metal 1,2-Dithiolenes: New Materials For Electrical And Optical Applications	G. A. Mousdis, G. C. Anyfantis, and G. C. Papavassiliou
16:30-16:45	Optical effects in semiconductor quantum dot – metal nanoparticle hybrids	<u>Spyridon G. Kosionis</u> , Andreas F. Terzis and Emmanuel Paspalakis

16:45-17:00	Photo-switching Third-order NLO Properties Of π -conjugated Azobenzene-Based materials	<u>N. Liaros</u> , N. Giannakopoulou, L. Maggini, C. Aurisicchio, F. Cattaruzza, D. Bonifazi and S. Couris
17:00-17:15	Electron Injection Dynamics In Quasi Solid-State Dye Sensitized Solar Cells	M. Dori, K. Seintis, <u>M. Fakis</u> , E. Stathatos, H.-H. Chou, Y.-S. Yen, J. T'suen Lin, V. Giannetas and P. Persephonis
17:15-17:30	Development of Photoelectrochromic Devices for Energy Saving Applications	<u>G. Leftheriotis</u> , G. Syrokostas and P. Yianoulis
17:30-17:45	Role of surface chemical treatment on the optical properties of SiNWs fabricated by single-step metal assisted chemical etching	<u>I. Leontis</u> , A. G. Nassiopoulou and A. Othonos
17:45-18:30	Poster Session/Coffee	
Tuesday September 25		
S6^o	Ceramic, composites, minerals, metallic and novel materials	
9:00-9:30	Invited Lecture: <i>Graphene production and properties</i>	K. Papagelis
9:30-9:45	Polyoxymethylene (POM) based nanocomposites: Morphology, dielectric response and energy storage efficiency	<u>A. Kerasidou</u> , G. C. Psarras, S. Siengchin, P. K. Karahaliou, N. Xanthopoulos, S. N. Georga, C. A. Krontiras and József Karger-Kocsis
9:45-10:00	Zr-based Glassy Films As Templates For Selectively Tetragonal Or Monoclinic ZrO ₂ Film Growth With Predefined Surface Morphologies	<u>N.T. Panagiotopoulos</u> , J. Kovač, U. Cvelbar, P. Patsalas, M. Mozetič, G.A. Evangelakis
10:00-10:15	Thermal Management at High Transistor Density Silicon-on-Insulator Devices	<u>C. Orfanidou</u> and J. Giapintzakis
10:15-10:30	High Temperature Activated AB ₂ Nanopowders for Hydrogen Compression Applications	<u>Sofoklis S. Makridis</u> , Evangelos D. Kouloukis, Daniel Fruchart and Athanasios K. Stubos
10:30-10:45	Magnetic properties and magnetocaloric effect of La _{0.9} Ba _{0.1} MnO ₃ perovskite	G. Tonozis and <u>G. Litsardakis</u>

10:45-11:00	Radiation damage studies of Fe-Cr alloys for Fusion applications	Z. Kotsina, G. Apostolopoulos, K. Mergia, S. Messoloras, A. Lagogiannis, S. Harissopoulos
11:00-11:15	Physicochemical Characterisation and Study of the Ageing Mechanisms Towards Luminescence Dating for the Preparation of the Paintings on Canvas from 19 th to 20 th Century	Anastasia Rousaki, Eleni Kouloumpi, Agni-Vasileia Terlix, Anna P. Moutsatsou, Georgios S. Polymeris, K. M. Paraskevopoulos
11:15-11:30	Processing of Nanomaterials by Solution Combustion Method. Review	Galina Xanthopoulou
11:30-12:00	Coffee Break	
S4 ^o	Physics of surfaces, the nanoscale and low-dimensional systems	
12:00-12:30	Invited Lecture (To be confirmed)	G. Konstantinidis
12:30-12:45	Quantitative Characterization of Buried B _x C _y Nanolayers by X-Ray Photoelectron Spectroscopy	Spyridon Ladas
12:45-13:00	Polytypism in InN Nanopillars Grown on Si: Structural and Electronic Properties	T. Koukoula, J. Kioseoglou, Th. Kehagias, A.O. Ajagunna, A. Georgakilas and Ph. Komninou
13:00-13:15	Structure-property relationships in anisotropic nonpolar heteroepitaxial GaN films	A. Lotsari, Th. Kehagias, M. Katsikini, J. Arvanitidis, S. Ves, G. Tsiakatouras, K. Tsagaraki, A. Georgakilas, Ph. Komninou, and G. P. Dimitrakopoulos
13:15-13:30	FePt nanostructures obtained by polystyrene sphere array masks	A. Markou, K.G. Beltsios, I. Panagiotopoulos, A. Tserepi and T. Bakas
13:30-13:45	Normal grain growth in nanostructured gold films	V. Karoutsos, M. Toudas, A. Delimitis, S. Grammatikopoulos and P. Pouloupoulos
13:45-14:00	Development of nanostructured anatase TiO ₂ by means of pulsed laser deposition	D. Vlachos, M. Misra, N. Fereshteh Saniee, D.P. Woodruff and C.F. McConville
14:00-15:30	Lunch Break	

S3 ^o	Strongly correlated electronic systems, magnetism and superconductivity	
15:30-16:00	Invited Lecture: <i>Proximity Effects and Exchange Coupling in EuS/3d Multilayers: Towards Spintronic Nanodevices at Room Temperature</i>	P. Pouloupoulos
16:00-16:15	Lattice Anomalies in Pnictides	<u>E. Liarokapis</u> , A. Antonakos, N. D. Zhigadlo, S. Katrych, and J. Karpinski
16:15-16:30	Effects of Fe substitution on the orbital and magnetic ordering transition of $\text{LaMn}_{1-x}\text{Fe}_x\text{O}_{3+\delta}$ compounds	E. Syskakis, <u>G. Vertsioti</u>
16:30-16:45	AC magnetic field heating of iron-based nanoparticles prepared by solar PVD	<u>M. Tziomaki</u> , K. Simeonidis, M. Angelakeris, T. Samaras, O. Kalogirou, G. Vourlias, N. Andritsos, C. Martinez-Boubeta, L. Balcells, C. Monty
16:45-17:00	Dielectric Properties of Underdoped Cuprates	<u>Z. Viskadourakis</u> , I. Radulov, C. Panagopoulos
17:00-17:15	Peak effect in $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ superconductor	<u>M. Pissas</u> , Chunlei Wang, and Yanwei Ma
17:15-17:30	Dynamics of Magnetic Vortex-Antivortex Dipoles in Spin-Polarized Current	Stavros Komineas
17:30-17:45	The nanomagnetic roadmap to biomedical applicability	<u>M. Angelakeris</u> , K. Simeonidis, D. Sakellari, K.D. Bakoglidis, C. Martinez-Boubeta, A. Kostopoulou, K. Brintakis, A. Lappas and O. Kalogirou
17:45-18:00	Ferrite Nanoparticles: Synthesis, Properties and Biomedical Perspectives	<u>D. Sakellari</u> , K.D. Bakoglidis, K. Simeonidis, M. Hilgendorff, Zi-An Li, M. Spasova, M. Acet, M. Farle and M. Angelakeris
18:00-18:15	Space determination of super-paramagnetic nanoparticles in human bodies for tumor treatment	A. Ktena, E. Hristoforou
18:15-19:45	Poster Session/Coffee	
21:00	Conference Dinner	

Wednesday September 26

S4°	Physics of surfaces, the nanoscale and low-dimensional systems	
9:00-9:30	Invited Lecture: <i>Spontaneous nanostructure formation at surfaces</i>	Klaus Wandelt
9:30-9:45	Dare a closer look to Nanotechnology - Novel instrumentation for Thin Film Analysis and Nanotechnology	Margarethe Kampling
9:45-10:00	Enhanced Magnetic Force Microscopy Resolution Employing Torsional Resonance Mode	<u>Andreas Kaidatzis</u> and Jose Miguel García-Martín
10:00-10:15	Effect of Fe Ion Irradiation on the Structural and Magnetic Properties of Thin Iron Films	<u>K. Papamihail</u> , K. Mergia, Yves Serruys, Th. Speliotis, F. Ott
10:15-10:30	Unusual Magnetic Properties of Nanostructured Zinc-Ferrite	<u>D. Topaltzikis</u> , A.P. Douvalis, A.B. Bourlinos, R. Zboril, J. Tucek and T. Bakas
10:30-10:45	The Influence of Shape Anisotropy of Co on the Transport Properties of Co/Nb/Co Trilayered Hybrids	E. Aristomenopoulou, E. Manios, M. Zeibekis, M. Pissas, D. Niarchos and <u>D. Stamopoulos</u>
10:45-11:00	Search for sp ² hybridized graphene-like silicon and germanium layers grown on metal substrates	<u>D. Tsoutsou</u> , E. Golias, E. Xenogiannopoulou, P. Tsipas, N. Kelaidis and A. Dimoulas
11:00-11:30	Coffee Break	
S4°	Physics of surfaces, the nanoscale and low-dimensional systems	
11:30-12:00	Invited Lecture: <i>Surface Chemistry Of Gold And The Equilibrium Shape Of Au Nanoparticles From First-Principles simulations</i>	Ioannis N. Remediakis
12:00-12:15	Microstructure And Tensile Response Of Cu ₅₀ Zr ₅₀ Glassy Nano-Foils By Molecular Dynamics Simulations	<u>A.E. Lagogianni</u> and G.A Evangelakis
12:15-12:30	A Study of Small Polaron Hopping Conductivity in 1D Disordered Systems	M. Dimakogianni, <u>C. Simserides</u> and G.P. Triberis
12:30-12:45	A kinetic theory model for the phonon conductivity of interconnected nanograins	<u>X. Zianni</u> and P. Chantrenne
12:45-13:00	Closing	

