

Program also available on the web

http://xxv.physics.auth.gr

xxv@physics.auth.gr Tel. & Fax: +302310-998036

Program

The Conference program includes plenary, invited and contributed talks as well as poster presentations. A video projector, a laptop (PowerPoint ready) & an overhead projector will be available.

Talk Guidelines

- Presentations should be in Microsoft PowerPoint format (.ppt file) or Adobe Acrobat Reader format (.pdf file).
- The file should be electronically handed by the speaker to the Registration Desk at least one session before his/her presentation.
- Projector and PC devices will be available in the Conference Room.
- The plenary talks will be 60 min long (45 min for the talk and 15 min for questions)
- The invited talks will be 30 min long (25 min for the talk and 5 min for questions)
- The contributed talks will be 15 min long (12 min for the talk and 3 min for questions)

Poster Guidelines

- The best poster presentation in each poster session will be awarded a prize.
- The presenting authors should hang their posters in the morning, before 9 am, and remove them in the evening of the corresponding day.
- All posters are required to conform to PORTRAIT ORIENTATION. Failure to follow this requirement will mean that the poster will NOT FIT on the allotted board.
- The dimensions of the posters should be 100 cm x 100 cm.
- Posters should be clear and easy to read. Type size should be sufficiently large to allow people to read from 2-3 meters.
 (Minimum of 1 cm high for text and 2.5 cm high for titles).
- Design the poster to convey a CLEAR MESSAGE. If this is not obvious to the reader after reading the introduction, the message is NOT CLEAR and the reader will move on to an alternative poster, which provides the correct impact

Young Scientists Awards

4 prizes will be awarded to the best papers presented by young scientists (1 for oral and 3 for poster presentations)

Sunday, Se	Sunday, Sept. 20	
17 ⁰⁰ - 18 ³⁰	Registration	
18 ³⁰ - 19 ⁰⁰	Opening Ceremony (Chair: E. Paloura)	
19 ⁰⁰ - 20 ⁰⁰	Ple1 E. Dooryhee - CNRS, Grenoble, France Looking into art and cultural heritage with synchrotron X - rays	
20 ⁰⁰	Welcome Reception	

Mond	Monday, Sept .21		
<mark>09⁰⁰ - 1</mark>	1 ⁰⁰	Sessio	on MO1: Structural, Mechanical & Optical Properties of Condensed Matter - 1
		In me	mory of G. Kanellis (Chair: S. Ves & C. Raptis)
09 ⁰⁰ - 1	LO ⁰⁰	Ple2	K. Syassen (Max Plank Institut für Festkörperforschung, Stuttgart) - High - pressure studies of transition metal compounds located near the insulator - metal borderline
10 ⁰⁰ - 1	L0 ¹⁵	01	A. Antonakos (NTUA, Dept. of Physics) - Controlling phase separation in manganite thin films
10 ¹⁵ - 1	LO ³⁰	02	D. Kastanis (FORTH/ICE-HT, Patras) - Plasma oxidation of multi - walled carbon nanotube sheets
10 ³⁰ - 1	L0 ⁴⁵	03	Ch. Lekka (Univ. of Ioannina, Dept. of Mat. Sci. & Eng.) - Ultra fine structure of the short range order of the $Cu_{65}Zr_{35}$ and $Cu_{35}Zr_{65}$ metallic glasses
10 ⁴⁵ - 1	1 ⁰⁰	04	P. Kavouras (TEI Thessaloniki, Dept. of Applied Sciences) - <i>The effect of In implantation on the structural and nano - mechanical properties of GaN</i>
11 ⁰⁰ - 1	1 ³⁰	Coffe	e break
11 ³⁰ - 1	13**		on MO2: Poster Session: Structural, Mechanical & Optical Properties - 1 / Electronic Transport, conductors & Devices / Photonics & Optoelectronics (Chair: G. Kourouklis, K.Syassen, E. Dooryhee)
13 ⁰⁰ - 1	4 ⁰⁰	Lunch	n break
14 ⁰⁰ - 1	16 ³⁰	Sessio	on MO3: Electronic Transport, Semiconductors & Devices, Photonics & Optoelectronics - 1
		(Chai	r: G. Papavassiliou & C. Dimitriadis)
14 ⁰⁰ - 1	4 ³⁰	11	E. Iliopoulos (Univ. of Crete, Dept. of Physics & FORTH, IESL) - Advancing III - nitrides epitaxy: from kinetics to new device applications
14 ³⁰ - 1	4 ⁴⁵	05	V. Constantoudis (NCSR "Demokritos", IMEL) - The role of gate width in transistor performance: Effects of gate sidewall roughness
14 ⁴⁵ - 1	15 ⁰⁰	06	A. Tsormpatzoglou (AUTH, Dept. of Physics, & IMEP, MINATEC, Grenoble) - <i>Electrical characterization and design optimization of finfets with TiN/HfO</i> ₂ gate stack
15 ⁰⁰ - 1	15 ¹⁵	07	N. Kelaidis (NCSR "Demokritos", IMEL) - Electrical and structural characteristics of strained - Si MOS structures as a function of strained - Si overlayer
15 ¹⁵ - 1	15 ⁴⁵	12	E. Monroy (CEA -INAC/SP2M/PSC, Grenoble) - Polar and semipolar GaN/AIN nanostructures for optoelectronic applications
15 ⁴⁵ - 1	L6 ⁰⁰	08	S. F. Galata (NCSR "Demokritos", IMS) - Stabilization of a very high - k tetragonal phase in Ge - doped ZrO ₂ films grown by direct doping with Germanium
16 ⁰⁰ - 1	l6 ¹⁵	O 9	G. Leftheriotis (Univ. of Patras, Dept. of Physics) - <i>Electrochromic devices based on electrodeposited WO</i> ₃ films with modified surface morphology
16 ¹⁵ - 1	16 ³⁰	010	G. Mitrikas (NCSR "Demokritos", IMS) - Ultrafast control of nuclear spins using only microwave pulses: towards switchable solid state gates for quantum information processing
16 ³⁰ - 1	L 7 ⁰⁰	Coffe	e break
$17^{00} - 1$	18⁴⁵	Sessio	on MO4: Electronic Transport, Semiconductors & Devices, Photonics & Optoelectronics - 2
			r: P. Keliris & S. Logothetidis)
17 ⁰⁰ - 1	1 7 ³⁰	13	M. Kafesaki (Univ. of Crete, Dept. of Mat. Sci. & Tech. & FORTH, IESL) - Manipulating light with optical left - handed metamaterials
17 ³⁰ - 1	1 7 ⁴⁵	011	C. Tserkezis (Univ. of Athens, Dept. of Physics) - <i>Coupled plasmons and resonant effective permeability of metal - dielectric - metal nanosandwich assemblies</i>
17 ⁴⁵ - 1	8 ⁰⁰	012	L. Mouchliadis (Cardiff Univ., School of Physics & Astronomy) - Exciton polaritons in resonant Bragg gratings
18 ⁰⁰ - 1	18 ¹⁵	013	Z. Viskadourakis (Univ. of Cyprus, Dept. Mechanical and Manufacturing Eng. & Univ. of Crete, Dept. of Mat. Sci. & Tech.) - <i>Power factor enhancement in composite Ag - Bi - Ag planar thin film thermoelectric structures</i>
18 ¹⁵ - 1	18 ⁴⁵	14	L. Palilis (NCSR "Demokritos", IMEL) - Molecular and polymeric organic semiconductors and their applications in plastic optoelectronic and photonic devices
19⁰⁰ - 2	21 ⁰⁰ Ro	ound Ta	able: Research Perspectives in Europe & Greece

Tuesday, S	Tuesday, Sept. 22		
<mark>09⁰⁰ - 11⁰⁰</mark>	Sessio	on TU1: Structural, Mechanical & Optical Properties of Condensed Matter - 2	
	(Chaiı	r: S Kennou & A. Lappas)	
09 ⁰⁰ - 10 ⁰⁰	Ple3	F. Boscherini (Univ. of Bologna, Dept. of Physics) - New opportunities to study defects in semiconductors by soft X - ray absorption spectroscopy	
10 ⁰⁰ - 10 ¹⁵	014	G. Apostolopoulos (NCSR "Demokritos", INT-RP) - Neutron Compton scattering from LiH and LiD	
10 ¹⁵ - 10 ³⁰	015	Ch. B. Lioutas (AUTh, Dept. of Physics)- Identification of new nano - scale phases in AgPb ₁₈ SbSe ₂₀ crystals by electron crystallography methods	
10 ³⁰ - 11 ⁰⁰	15	A. Erko (BESSY II, Helmholtz Zentrum Berlin für Materialien und Energie GmbH) - Ultra - high time - resolved XAS	
11 ⁰⁰ - 11 ³⁰	Coffe	e break	
11 ³⁰ - 13 ⁰⁰		on TU2: Poster Session: Structural, Mechanical & Optical Properties - 2 / Magnetism & Superconductivity / JRAL Heritage Materials & Interdisciplinary Physics (Chair: T. Bakas, F. Boscherini, M. Farle)	
13 ⁰⁰ - 14 ⁰⁰	Lunch	n break	
14 ⁰⁰ - 16 ³⁰	Sessio	on TU3: MAGNETISM & SUPERCONDUCTIVITY - 1	
	In me	mory of A. Simopoulos & A. Kostikas (Chair: D. Niarchos & O. Kalogirou)	
14 ¹⁵ - 15 ¹⁵	Ple4	M. Farle (Univ. Duisburg – Essen, Dept. of Physics & Center for Nanointegration) - Magnetism at the nanoscale	
15 ¹⁵ - 15 ³⁰	016	E. Hristoforou (NTUA, School of Mining and Metallurgy Engineering) - New sensors based on the magnetostrictive delay line technique	
15 ³⁰ - 15 ⁴⁵	017	E. Th. Papaioannou (Uppsala Univ., Dept. of Physics & Mat. Sci.) - Magnetic and magneto – optical properties of transition metal films with sub - wavelength antidot arrays	
15 ⁴⁵ - 16 ⁰⁰	018	O. Crisan (National Inst. for Materials Physics, Bucharest) - Exchange spring effects in FePt/Fe(Co)/ $^{\delta^7}$ Fe multilayers	
16 ⁰⁰ - 16 ¹⁵	019	V. Tsakaloudi (CPERI, Lab. of Inorganic Materials) - New magnetic ferrite materials for innovative RFID concepts	
16 ¹⁵ - 16 ³⁰	O20	A. Andriotis (FORTH, IESL) - Defect - induced defect - mediated magnetism in diluted magnetic semiconductors	
16 ³⁰ - 17 ⁰⁰	Coffe	e break	
17⁰⁰ - 18⁰⁰	Sessio	on TU4: Magnetism & superconductivity - 2	
	In me	mory of A. Simopoulos & A. Kostikas (Chair: E. Hristoforou & K. G. Efthymiadis)	
17 ⁰⁰ - 17 ³⁰	16	P. Poulopoulos (Univ. of Patras, Dept. of Mat. Sci.) - Magnetic force microscopy on thin films and nanostructures	
17 ³⁰ - 17 ⁴⁵	021	A. Kaidatzis (Université Paris Sud, CNRS, Lab. de Physique des Solides) - Hot electron transport and high resolution magnetic imaging on Co/Cu/Co and Co/Cu/NiFe spin valves	
17 ⁴⁵ - 18 ⁰⁰	022	K.N. Trohidou (NCSR "Demokritos", Inst. of Mat. Sci.) - <i>Exchange bias effects in Co nanoparticles dispersed in a Mn matrix</i>	
18 ⁰⁰ - 19 ³⁰	Sessio	on TU5: Cultural Heritage Materials & Interdisciplinary Physics	
	(Chaiı	r: K.M. Paraskevopoulos & E.K. Polychroniadis)	
18 ⁰⁰ - 18 ³⁰	17	Th. Samaras (AUTh, Dept. of Physics) - The use of iron oxide nanoparticles in hyperthermia	
18 ³⁰ - 18 ⁴⁵	023	P. Papanikolaou (AUTh, Dept. of Chemistry) - <i>Study of the effect of a uniform electric field on the bond lengths and the electronic distribution of diatomic and polyatomic molecules</i>	
18 ⁴⁵ - 19 ⁰⁰	024	E. Pavlidou (AUTh, Dept. of Physics) – Wall painting materials and technique: the case of famous iconographer Onoufrios	
19 ⁰⁰ - 19 ¹⁵	025	M. Maragakis (AUTh, Dept. of Physics) Random walk in complex systems with the particle diffusion model	
19 ¹⁵ - 19 ³⁰	O26	B. Subedi - (AUTh, Dept. of Physics & CETI Archaeometry Lab.) - <i>Towards luminescence dating of turquoise gemstone using TL and OSL methods</i>	
21^{00} - Confe	_	•	

Wednesda	Wednesday, Sept. 23	
<mark>09⁰⁰ - 11⁰⁰</mark>	Session WE1: INHOMOGENEOUS & DISORDERED MATERIALS, POLYMERS & BIOMATERIALS	
	(Chair: S. Messoloras & A. Andriotis)	
09 ⁰⁰ - 09 ³⁰	I8 I. Margiolaki (ESRF, Grenoble) - Complementary methods for the study of biomaterials	
09 ³⁰ - 09 ⁴⁵	O27 G. Soras (NHRF, Theoretical & Physical Chemistry Inst. & Univ. of Athens, Chemistry Dept) - Synthesis of novel transition metal dithiolenes: Synthesis, experimental and theoretical investigation	
09 ⁴⁵ - 10 ⁰⁰	O28 E. Karakosta (NCSR "Demokritos", IMS) - In situ monitoring of cement gel growth dynamics. The use of a miniaturized permanent Halbach magnet for precise ¹ H NMR studies	
10 ⁰⁰ - 10 ³⁰	I9 N. Papageorgiou (Univ. de la Méditerranée & Univ. de Provence, CNRS) - Transmission electron microscopy of proteins and single particle 3D reconstruction	
10 ³⁰ - 10 ⁴⁵	O29 K. Chrissopoulou (FORTH, IESL) - <i>Effect of inorganic additive on the chain crystallization in polymer / layered silicate nanohybrids</i>	
10 ⁴⁵ - 11 ⁰⁰	O30 G. Kalosakas (Univ. of Patras, Dept. of Mat. Sci.) - Tight Binding Parameters for Charge Transport in DNA	
11 ⁰⁰ - 11 ³⁰	Coffee break	
11 ³⁰ - 13 ⁰⁰	Session WE2: Poster Session: Inhomogeneous & Disordered Materials, Polymers & Biomaterials/ Nanoscale & Surface Science (Chair: M. Calamiotou, E. Liarokapis, C. Galiotis)	
13 ⁰⁰ - 14 ⁰⁰	Lunch break	
14 ⁰⁰ - 15 ³⁰	Session WE3: NANOSCALE & SURFACE SCIENCE - 1	
	(Chair: A. Vomvas & Th. Karakostas)	
14 ⁰⁰ - 14 ³⁰	I10 D. Christofilos (AUTH, School of Technology) - Optical spectroscopy of nanoobjects: carbon nanotubes and metallic nanoparticles	
14 ³⁰ - 14 ⁴⁵	O31 T. Leontiou (Cyprus Univ. of Technology, Dept. of Mech. & Mat. Sci. Eng.) - <i>Thermodynamics and kinetics of dislocated Ge/Si and InAs/GaAs thin layers</i>	
14 ⁴⁵ - 15 ⁰⁰	O32 A. P. Douvalis (Univ. of Ioannina, Dept. of Physics) - Synthesis and characterization of novel carbon nanotubes - iron oxide nanoparticles hybrids	
15 ⁰⁰ - 15 ¹⁵	O33 J. Kioseoglou (AUTh, Dept. of Physics) - The nonpolar - semipolar boundaries in III - nitrides: Atomic structure and influence on defect introduction	
15 ¹⁵ - 15 ³⁰	O34 A. Skarmoutsou (NTUA, School of Chem.Eng.) - Nanomechanical properties of hydroxyapatite (HA) with DAE dendrimers (poly propylene imine) coatings onto Ti surfaces	
15 ³⁰ - 16 ⁰⁰	Coffee break	
16⁰⁰ - 17³⁰	Session WE4: NANOSCALE & SURFACE SCIENCE - 2	
	(Chair: Ph. Komninou & M. Kamaratos)	
16 ⁰⁰ - 16 ³⁰	I11 P. Patsalas (Univ. of Ioannina, Dept. of Mat. Sci. & Eng.) - Complex conducting nitrides: Synthesis, structure, properties and applications	
16 ³⁰ - 16 ⁴⁵	O35 E. Symianakis (Univ. of Patras, Dept. of Chem. Eng. & ICE/HT-FORTH) - On the substrate - driven oxidation of Ni/NiO(001) by X - ray photoelectron spectroscopy and molecular dynamics simulations	
16 ⁴⁵ - 17 ⁰⁰	O36 A. Kostopoulou (FORTH, IESL & Un. Of Crete, Dept. of Chemistry) - Magneto - optical properties of iron oxide nanoclusters	
17 ⁰⁰ - 17 ¹⁵	O37 N. Galanis (Univ. of Crete, Dept. of Mat. Sci. & Tech.) - Mechanical properties of nanocrystalline Copper	
17 ¹⁵ - 17 ³⁰	O38 D. Vlachos (Univ. of Ioannina, Dept. of Physics)- Indium adsorption on the reconstructed Si(111) $\sqrt{3}\times\sqrt{3}$ and 4×1 - In surfaces at room and low temperature	
17 ³⁰ - 18 ³⁰	Session WE5: Special Session on Renewable Energy Resources – Hydrogen (Under the Auspices of Hellenic Society for	
	SCIENCE AND TECHNOLOGY OF CONDENSED MATTER (H.S.S.T.C.M) (Chair: H. Gamari-Seale)	
17 ³⁰ - 18 ⁰⁰	I12 A. G. Konstandopoulos (CPERI/CERTH, & AUTh, Dept. of Chem. Eng.) - Solar thermochemical water- splitting for Hydrogen production: The Hydrosol Process	
18 ⁰⁰ - 18 ³⁰	I13 E. Varkaraki (CRES-Center for renewable energy sources & hydrogen technologies-Pikermi) - Perspectives and challenges of hydrogen storage in metal hydrides. The case of the CRES wind-hydrogen plant	
18 ³⁰ - 19 ⁰⁰	Awards - Closing Ceremony	
19 ⁰⁰ - 19 ³⁰	Annual Meeting of the Hellenic Society for Science and Technology of Condensed Matter	

Monday, S	ept. 21
11 ³⁰ - 13 ⁰⁰	: Session MO2: Poster Session
STRUCTURAL	, MECHANICAL & OPTICAL PROPERTIES - 1 / ELECTRONIC TRANSPORT, SEMICONDUCTORS & DEVICES / PHOTONICS & OPTOELECTRONICS
MO2-P1	J. Parthenios (FORTH, ICE- HT, Patras) - The effect of temperature on aramid fibre phonons
MO2-P2	A. E. Lagogianni (Univ. of Ioannina, Dept. of Physics) - <i>Microstructure evolution in Cu_xZr</i> _{100-x} metallic glasses under tensile deformation
MO2-P3	Ch. Argirusis (NTUA, School of Chemical Engineering & Technische Universität Clausthal, Inst. für Metallurgie) - Water and carbon dioxide as sources for oxygen incorporation into acceptor Doped SrTiO ₃ single crystals
MO2-P4	K. Vartzelis – Nikakis (NTUA, Dept. of Physics) - Molecular dynamics in intercalated poly (propylene oxide, amines/layered silicate nanocomposites
MO2-P5	E. Almpanis (NCSR "Demokritos", IMEL) - Optical response of plasmonic nanoantenna arrays
MO2-P6	K. Pomoni (Univ. of Patras, Dept. of Physics) - Structure and photoconductivity of modified TiO ₂ sol-gel coatings
MO2-P7	E. Kalesaki (AUTh, Dept. of Physics) - Structural and electronic properties of InN a-edge threading dislocations
MO2-P8	H. Zoubos (Univ. of Ioannina, Dept. of Materials Science and Engineering)- Optical properties of AlN-based nanocomposite films
MO2-P9	I. Efthimiopoulos (Max Plank Inst. für Festkörperforschung, Stuttgart) - <i>High pressure studies of the perovskite isotopes Re</i> ¹⁶ O ₃ and Re ¹⁸ O ₃
MO2-P10	I. Efthimiopoulos (Max Plank Inst. für Festkörperforschung, Stuttgart) - Structural and spectroscopic studies of the multiferroic spinel CdCr ₂ S ₄ under pressure
MO2-P11	I. Efthimiopoulos (Max Plank Inst. für Festkörperforschung, Stuttgart) - High pressure structural investigations of Fe based superconductors
MO2-P12	S. M. Souliou (AUTh, Dept. of Physics & School of Technology) - <i>Probing the pressure-induced structural deformation of carbon nanotubes through carotene encapsulation in their interior</i>
MO2-P13	C. A. Londos (Univ. of Athens, Dept. of Physics) - <i>The effect of germanium doping on the annealing characteristics of the VO and VO</i> ₂ <i>defects in silicon.</i>
MO2-P14	V. Likodimos (NCSR "Demokritos", IPC) - <i>Micro-Raman investigation on the long term stability of dye-sensitized solar</i> cells under light and thermal stress
MO2-P15	V. Likodimos (NCSR "Demokritos", IPC) - Micro-Raman spectroscopy on self-assembled anodized TiO_2 nanotube arrays
MO2-P16	M. Dimitrijevic (Univ. of Belgrade, Faculty of Technology and Metallurgy) - Use of image analysis for characterisation of thermal shock behaviour of improved ceramic matrix composites
MO2-P17	M. Posarac (Inst. of Nuclear Sciences "Vinca", Belgrade) - Influence of microstructure on mechanical properties of porous SiC/cordierite composite materials
MO2-P18	Th. A. Goutziotis (Univ. of Ioannina, Dept. of Materials Science and Engineering) - Structural and electronic properties of metal nitrides

Monday, Se	
11 ³⁰ - 13 ⁰⁰	: Session MO2: Poster Session
STRUCTURAL,	MECHANICAL & OPTICAL PROPERTIES - 1 / ELECTRONIC TRANSPORT, SEMICONDUCTORS & DEVICES / PHOTONICS & OPTOELECTRONICS
MO2-P19	Ch. Motsanos (Univ. of Crete, Dept. of Materials Science and Technology) - A maximum in the strength of superhave Rhenium borides
MO2-P20	Th. Ch. Hasapis (AUTh, Dept. of Physics) - Far infrared spectra and structure of $(K_2S)_x(Sb_2S_3)_{100-x}$ glasses
MO2-P21	E. Ramou (Univ. of Patras, Dept. of Physics) - On the measurement of the instability thresholds of nematic liquic crystal
MO2-P22	E. M. Pechlivani (AUTh, Dept. of Physics) - Interaction between hetrostructural interfaces and structural faults in $GaN / Al_xGa_{1-x}N$ on Al_2O_3 thin films
MO2-P23	Th. Kehagias (AUTh, Dept. of Physics) - Mechanisms of indium segregation in MOVPE and MBE grown InAlf epilayers
MO2-P24	M. Gioti (AUTh, Dept. of Physics) - Evaluation of the optical properties, stoichiometry and composition of SiO_x film on PET by ellipsometry
MO2-P25	D. Georgiou (AUTh, Dept. of Physics) - Effect of thickness on the optical properties of CuPc and C60 thin films for organic photovoltaic applications
MO2-P26	A. Laskarakis (AUTh, Dept. of Physics) - <i>Effect of thickness in the optical properties of organic thin films deposited vie organic vapor phase deposition</i>
MO2-P27	E. D. Vanidhis (AUTh, Dept. of Physics) - Theoretical calculations to determine the electro-gyration coefficients in point group of CaCO ₃
MO2-P28	E. Kalesaki (AUTh, Dept. of Physics) - Morphological and structural characterization of polar and semipolar Gal quantum dots in AIN
MO2-P29	M. Marinova (AUTh, Dept. of Physics) - Typical structural defects in 3C-SiC layers grown by various methods of different substrates
MO2-P30	A. Lotsari (AUTh, Dept. of Physics) - Structural and mechanical properties of AIN:Ag nanocomposite coatings grown by pulsed laser deposition
MO2-P31	C. Aris Chatzidimitriou-Dreismann (Technical Univ. of Berlin, Inst. of Chemistry) - Scattering of fast neutrons from protons in solids (NbH _{0.80} and LiH): New quantum effects in the attosecond timescale
MO2-P32	D. Berdekas (Direction of High Schools Education of Larissa) - <i>The influence of the disorder in the Raman spectra of GaSb/AlSb (001) superalattices</i>
MO2-P33	G. Mitrikas (NCSR "Demokritos", IMS) - Probing the electronic structure of molecular magnets by pulse EPR methods
MO2-P34	Withdrawn
MO2-P35	A. Vomvas (Univ. of Patras, Dept. of Physics) - Dark conductivity and photoconductivity behavior of sol-gel S-dope TiO ₂ , thermally treated at different temperatures

Monday, Sept. 21	
11 ³⁰ - 13 ⁰⁰	: Session MO2: Poster Session
STRUCTURAL,	MECHANICAL & OPTICAL PROPERTIES - 1 / ELECTRONIC TRANSPORT, SEMICONDUCTORS & DEVICES / PHOTONICS & OPTOELECTRONICS
MO2-P36	M. Dimakogianni (Univ. of Athens, Dept. of Physics) - Field and temperature dependence of the small polaron hopping electrical conductivity in 1D disordered systems
MO2-P37	C. Paraskeva (AUTh, Dept. of Physics) - <i>Study of LiMgVO</i> ⁴ ionic conductivity mechanisms
MO2-P38	S. D. Pappas (Univ. of Patras, School of Engineering) - <i>Photoluminescence from SiO</i> ₂ thin films produced by Reactive Radio Frequency Magnetron Sputtering
MO2-P39	K. T. Zorbas (AUTh, Dept. of Physics & Univ. of Cyprus, Dept. of Mechanical and Manufacturing Engineering) - <i>Study</i> of an in-car refrigerator using commercial Bi ₂ Te ₃ thermoelectric modules
MO2-P40	V. Vargiamidis (AUTh, Dept. of Physics) - Fano resonances in electronic transport through quantum wires
MO2-P41	V. N. Petoussis (Univ. of Thessaly. Dept of Electrical & Computer Engineering) - A novel Hall effect sensor using elaborate offset cancellation method
MO2-P42	V. N. Petoussis (TEI of Lamia, Dept. of Electronics) - Semiconductor spintronics
MO2-P43	G. Kitis (AUTh, Dept. of Physics) - Correlation between TL And OSL signals in KMgF ₃ :Ce ³⁺ ; Bleaching study of individual glow peaks
MO2-P44	G. S. Polymeris (C.E.T.I., R.C "ATHENA", Archaeometry Lab., Xanthi) - <i>Thermally assisted photo transfer OSL from</i> deep traps in Al_2O_3 :C

Tuesday, S	ept. 22
11 ³⁰ - 13 ⁰⁰	: Session TU2: Poster Session
Structural Physics	, MECHANICAL & OPTICAL PROPERTIES - 2 / MAGNETISM & SUPERCONDUCTIVITY / CULTURAL HERITAGE MATERIALS & INTERDISCIPLINARY
TU2-P1	D. Tsitrouli (NCSR "Demokritos", IMS) - In vitro and in vivo efficient magnetic heating with polymer-dressed Fe_2O_3 nanoparticles
TU2-P2	P. Pandis (NTUA, School of Chemical Engineering) - Oxygen permeation study through dense ceramic membranes with perovskite structure ($Ba_{0.8}Sr_{0.2}M_xB_{1-x}O_{3\pm\delta}$, M=Co, Al, B=Mn, Fe, Ni)
TU2-P3	F. Noli (AUTh, Dept. of Chemistry) - Surface characterisation of nitrogen-implanted steel and corrosion behaviour in aggressive environment
TU2-P4	K. Kosmas (NTUA, Lab. of Physical Metallurgy) - On the magnetic properties of plastically deformed Armco steel
TU2-P5	P. Apostolopoulos (AUTh, Dept. of Physics) - Designing composite panels for minimum cost and weight
TU2-P6	F. Pinakidou (AUTh, Dept. of Physics) - Nanostructural characterization of TiN-Cu films using EXAFS spectroscopy
TU2-P7	F. Pinakidou (AUTh, Dept. of Physics) - Micro-XRF and micro-EXAFS studies of an Al matrix Fe-Ni composite
TU2-P8	D. Moussadakos (Univ. of Athens, Dept. of Physics) - <i>Magnetic properties of Nd-Fe-B/3:29 and Sm(CoFeCuZr)</i> _{7.5} /3:29 <i>nanocomposite permanent magnets</i>
TU2-P9	N Pistofidis (AUTh, Dept. of Physics) - <i>Effect of the steel composition on the morphology of zinc hot-dip galvanized coatings</i>
TU2-P10	N. Pistofidis (AUTh, Dept. of Physics) - <i>Effect of the cooling time on the morphology of zinc hot-dip galvanized coatings</i>
TU2-P11	N. Pistofidis (AUTh, Dept. of Physics) - Thermodynamic evaluation of zinc hot-dip galvanizing
TU2-P12	N. Pistofidis (AUTh, Dept. of Physics) - Evaluation of Fe-Zn diffusion coefficient during hot-dip galvanizing
TU2-P13	M. Papazoglou (AUTh, Dept. of Physics) - Comparative examination on structure and oxidation behavior of pack cementation zinc coated and not coated copper alloys substrates
TU2-P14	M. Papazoglou (AUTh, Dept. of Physics) - Influence of AI and Cr alloying elements on the structure and corrosion resistance of zinc coatings formed by pack cementation process
TU2-P15	D. Hadjiapostolidou (Imperial College London, Dept. of Materials) - Coarsening in René 80 Ni-based superalloy
TU2-P16	K. Mergia (NCSR "Demokritos", INT-RP) - Residual stress measurements on CuCrZr/W brazed alloy using neutron diffraction
TU2-P17	N. Moutis (NCSR "Demokritos", INT-RP) - Brazing of Nimonic superalloy to carbon-based ceramic composites
TU2-P18	Y. Keremi (AUTh, Dept. of Physics) - Effect of indium implantation on the bonding environment of GaN
TU2-P19	E. Siranidi (NTUA, Dept. of Physics) - Pressure-induced phase separation in the Y123 superconductor

Tuesday, S	Tuesday, Sept. 22		
11 ³⁰ - 13 ⁰⁰	: Session TU2: Poster Session		
STRUCTURAL PHYSICS	L, MECHANICAL & OPTICAL PROPERTIES - 2 / MAGNETISM & SUPERCONDUCTIVITY / CULTURAL HERITAGE MATERIALS & INTERDISCIPLINARY		
TU2-P20	C. Simserides (NCSR "Demokritos", IMS) - Influence of antiferromagnetic interactions and of alloy disorder on the ferromagnetic properties of p-type (Cd,Mn)Te quantum wells		
TU2-P21	M. Vasilakaki (NCSR "Demokritos", IMS) - Numerical study of the exchange bias effect in nanoparticles with ferromagnetic core / ferrimagnetic shell morphology		
TU2-P22	N. Panopoulos (NCSR "Demokritos", IMS) - Structural investigation of optimal doped manganites at high temperature NMR		
TU2-P23	D. Koumoulis (NCSR "Demokritos", IMS) - 139 La NMR study reveals peculiar spin ordering and antiferromagnetism in the overdoped region of La _{1-x} Ca _x MnO ₃ phase diagram		
TU2-P24	V. Likodimos (Univ. of Athens, Dept. Of Physics) - Matrix effects in carbon nanotube polymer composites		
TU2-P25	V. Likodimos (Univ. of Athens, Dept. Of Physics) - Magnetic properties of single-wall carbon nanotubes		
TU2-P26	N. Ntallis (AUTh, Dept. of Physics) - Study of a magnetic NDT method with finite elements analysis		
TU2-P27	P. Arampatzis-Ziamos (AUTh, Dept. of Physics) - Optimization of time response in electromechanical systems with iron core		
TU2-P28	C. Serletis (AUTh, Dept. of Physics) - <i>Experimental errors in magnetic viscosity measurements and activation volume calculations</i>		
TU2-P29	G. Litsardakis (AUTh, Dept. of Electrical and Computer Engineering) - <i>Electromagnetic properties and absorption of new La substituted Sr W-type hexaferrite in the 2-18 GHz frequency range</i>		
TU2-P30	D. Sakellari (AUTh, Dept. of Physics) - Study of the mechanism through which microstructural characteristics affect the impedance of NiCuZn ferrites		
TU2-P31	A. Markou (Univ. of Ioannina, Dept. of Materials Science and Engineering) - Magnetic thin films deposited on PDMS nanotemplates		
TU2-P32	A. Kotoulas (AUTh, Dept. of Physics) - Controllable synthesis and characterization of hcp and fcc nickel nanoparticles		
TU2-P33	I. Giannarakis (AUTh, Dept. of Physics) - The beneficiary role of intentional alloying in noble metal-Cobalt multilayered systems		
TU2-P34	Th. Gkinis (AUTh, Dept. of Physics) - Evaluation of iron oxide nanoparticles prepared by high-energy ball milling in drinking water treatment		
TU2-P35	A. Gaki (NTUA, School of Chemical Engineering) - Synthesis and magnetic properties of LaCO _{3-δ} and La _{0.8} Sr _{0.2} CoO _{3-δ}		
TU2-P36	N. Sheloudko ("St. Kl. Ohridski" Univ. of Sofia, Faculty of Physics) - Magnetic anisotropy of Ho-Fe-Co-Cr intermetallic compounds		

11 ³⁰ - 13 ³⁰ : Session TU2: Poster Session STRUCTURAL, MECHANICAL & OPTICAL PROPERTIES - 2 / MAGNETISM & SUPERCONDUCTIVITY / CULTURAL HERITAGE MATERIALS & INTERDISCIPLINARY PHYSICS TU2-P37 K. Simeonidis (AUTh, Dept. of Physics) - Structural, morphological and magnetic features in exchange-biased Co nanoparticles TU2-P38 P. Vlachos (Democritus Univ. of Thrace, Dept. of Electrical and Computer Engineering) - A quantum circuit for quantum key expansion from 6 to 24 Qubits TU2-P39 K. Chrissafis (AUTh, Dept. of Physics) - Thermal degradation kinetics of in-situ prepared PET nanocomposites containing fumed silica nanoparticles (SiO ₂) TU2-P40 K. Chrissafis (AUTh, Dept. of Physics) - Thermal degradation kinetics of in-situ prepared PET nanocomposites containing organically madified montmorillonite (MMT) nanoparticles TU2-P41 P. Argyrakis (AUTh, Dept. of Physics) - Scientific collaboration in Europe, and the Overlapping Tree Network TU2-P42 A. Kittas (AUTh, Dept. of Physics) - Trapping in complex networks TU2-P43 E. Filippaki (NCSR "Demokritos", IMS) - Optical emission spectroscopy in a glow discharge plasma during the restoration of run corroded objects TU2-P44 E. Filippaki (NCSR "Demokritos", IMS) - Offical emission spectroscopy in a glow discharge plasma during the restoration of ano andiguerito nanoparticles TU2-P45 S. K. Papadopoulou (AUTh, Dept. of Physics) - Efficacy of hydroghobic polymeric coatings and syperhydrophobic nano	Tuesday, S	ept. 22
PHYSICS TU2-P37 K. Simeonidis (AUTh, Dept. of Physics)- Structural, morphological and magnetic features in exchange-biased Connonparticles TU2-P38 P. Vlachos (Democritus Univ. of Thrace, Dept. of Electrical and Computer Engineering) - A quantum circuit for quantum key expansion from 6 to 24 Qubits TU2-P39 K. Chrissafis (AUTh, Dept. of Physics) - Thermal degradation kinetics of in-situ prepared PET nanocomposites containing fumed silica nanoparticles (SiO ₂) TU2-P40 K. Chrissafis (AUTh, Dept. of Physics) - Thermal degradation kinetics of in-situ prepared PET nanocomposites containing organically modified montmorillonite (MMT) nanoparticles TU2-P41 P. Argyrakis (AUTh, Dept. of Physics) - Scientific collaboration in Europe, and the Overlapping Tree Network TU2-P42 A. Kittas (AUTh, Dept. of Physics) - Scientific collaboration in Europe, and the Overlapping Tree Network TU2-P43 E. Flippaki (NCSR "Demokritos", IMS) - Optical emission spectroscopy in a glow discharge plasma during the restoration of iron corraded objects TU2-P44 E. Flippaki (NCSR "Demokritos", IMS) - Effect of the Hydrogen-reductive plasma on underwater oxidized objects. Chaotic plasma configuration TU2-P45 S. K. Papadopoulou (AUTh, Dept. of Physics) - Effect of stone TU2-P45 S. K. Papadopoulou (AUTh, Dept. of Physics) - Effect of the Hydrogen-reductive plasma on underwater oxidized objects. Chaotic plasma configuration TU2-P45 S. K. Papadopoulou (AUTh, De	11 ³⁰ - 13 ⁰⁰	: Session TU2: Poster Session
 nanoparticles TU2-P38 P. Vlachos (Democritus Univ. of Thrace, Dept. of Electrical and Computer Engineering) - A quantum circuit for quantum key expansion from 6 to 24 Qubits TU2-P39 K. Chrissafis (AUTh, Dept. of Physics) - Thermal degradation kinetics of in-situ prepared PET nanocomposites containing fumed silica nanoparticles (SIO₂) TU2-P40 K. Chrissafis (AUTh, Dept. of Physics) - Thermal degradation kinetics of in-situ prepared PET nanocomposites containing organically modified montmorillonite (MMT) nanoparticles TU2-P41 P. Argyrakis (AUTh, Dept. of Physics) - Scientific collaboration in Europe, and the Overlapping Tree Network TU2-P42 A. Kittas (AUTh, Dept. of Physics) - Trapping in complex networks TU2-P43 E. Filippaki (NCSR "Demokritos", IMS) - Optical emission spectroscopy in a glow discharge plasma during the restoration of iron corroded objects TU2-P44 E. Filippaki (NCSR "Demokritos", IMS) - Effect of the Hydrogen-reductive plasma on underwater oxidized objects. Chaotic plasma configuration TU2-P45 S. K. Papadopoulou (AUTh, Dept. of Physics) - Efficacy of hydrophobic polymeric coatings and syperhydrophobic nanoparticle based composite films for the protection of stone TU2-P44 E. Anagnostopoulou (AUTh, Dept. of Physics) - Magnetically induced hyperthermia: Size, phase and concentration-dependent heating power of magnetic nanoparticles TU2-P47 E. Pavildou (AUTh, Dept. of Physics) - Study of the painting materials from 4th century B.C. Vergina Tomb TU2-P48 E. Pavildou (AUTh, Dept. of Physics) - Study of the painting materials from 4th century B.C. Vergina Tomb TU2-P49 A. Chalkidou (AUTh, Dept. of Physics) - Study of the painting materials for adjust on conology Lab.) - Preparation, characterization and in-vitro toxicity test of nanoparticle-based system for magnetic hyperthermia of cancer tissues TU2-P49 A. Chalkidou (AUT		MECHANICAL & OPTICAL PROPERTIES - 2 / MAGNETISM & SUPERCONDUCTIVITY / CULTURAL HERITAGE MATERIALS & INTERDISCIPLINARY
 quantum key expansion from 6 to 24 Qubits TU2-P39 K. Chrissafis (AUTh, Dept. of Physics) - Thermal degradation kinetics of in-situ prepared PET nanocomposites containing fumed silica nanoparticles (SiO₂) TU2-P40 K. Chrissafis (AUTh, Dept. of Physics) - Thermal degradation kinetics of in-situ prepared PET nanocomposites containing organically modified montmorillonite (MMT) nanoparticles TU2-P41 P. Argyrakis (AUTh, Dept. of Physics) - Scientific collaboration in Europe, and the Overlapping Tree Network TU2-P42 A. Kittas (AUTh, Dept. of Physics) - Trapping in complex networks TU2-P43 E. Filippaki (NCSR "Demokritos", IMS) - Optical emission spectroscopy in a glow discharge plasma during the restoration of iron corroded objects TU2-P44 E. Filippaki (NCSR "Demokritos", IMS) - Effect of the Hydrogen-reductive plasma on underwater oxidized objects. Chaotic plasma configuration TU2-P45 S. K. Papadopoulou (AUTh, Dept. of Physics) - Efficacy of hydrophobic polymeric coatings and syperhydraphobic nanoparticle based composite films for the protection of stone TU2-P46 E. Anagnostopoulou (AUTh, Dept. of Physics) - Magnetically induced hyperthermia: Size, phase and concentration-dependent heating power of magnetic nanoparticles TU2-P47 E. Pavlidou (AUTh, Dept. of Physics) - Technique and painting materials characterization of St. Athanasius Church in Moschopolis, Albania (18th Century) TU2-P48 E. Pavlidou (AUTh, Dept. of Physics) - Study of the painting materials from 4th century B.C. Vergina Tomb TU2-P49 A. Chalkidou (AUTh, Dept. of Physics) - Study of the painting materials for magnetic hyperthermina of cancer tissues TU2-P49 A. Chalkidou (AUTh, Dept. of Physics) - Study ing technique and pigments of w	TU2-P37	
 containing fumed silica nanoparticles (SiO₂) TU2-P40 K. Chrissafis (AUTh, Dept. of Physics) - Thermal degradation kinetics of in-situ prepared PET nanocomposites containing organically modified montmorillonite (MMT) nanoparticles TU2-P41 P. Argyrakis (AUTh, Dept. of Physics) - Scientific collaboration in Europe, and the Overlapping Tree Network TU2-P42 A. Kittas (AUTh, Dept. of Physics) - Trapping in complex networks TU2-P43 E. Filippaki (NCSR "Demokritos", IMS) - Optical emission spectroscopy in a glow discharge plasma during the restoration of iron corroded objects TU2-P44 E. Filippaki (NCSR "Demokritos", IMS) - Effect of the Hydrogen-reductive plasma on underwater oxidized objects. Chaotic plasma configuration TU2-P44 S. K. Papadopoulou (AUTh, Dept. of Physics) - Efficacy of hydrophobic polymeric coatings and syperhydrophobic nanoparticle based composite films for the protection of stone TU2-P44 E. Anagnostopoulou (AUTh, Dept. of Physics) - Magnetically induced hyperthermia: Size, phase and concentration-dependent heating power of magnetic nanoparticles TU2-P44 E. Pavlidou (AUTh, Dept. of Physics) - Technique and painting materials characterization of St. Athanasius Church in Moschopolis, Albania (18th Century) TU2-P48 E. Pavlidou (AUTh, Dept. of Physics) - Study of the painting materials from 4th century B.C. Vergina Tomb TU2-P49 A. Chalkidou (AUTh, Dept. of Physics) - Study of then painting materials for angletic hyperthermia of cancer tissues TU2-P50 E. Sakellariou (AUTh, Dept. of Physics) - Studying technique and pigments of wall paintings in the Byzantine Church of "40 Holy Martyrs" in Veliko- Turnovo in Bulgaria 	TU2-P38	
 containing organically modified montmorillonite (MMT) nanoparticles TU2-P41 P. Argyrakis (AUTh, Dept. of Physics) - Scientific collaboration in Europe, and the Overlapping Tree Network TU2-P42 A. Kittas (AUTh, Dept. of Physics) - Trapping in complex networks TU2-P43 E. Filippaki (NCSR "Demokritos", IMS) - Optical emission spectroscopy in a glow discharge plasma during the restoration of iron corroded objects TU2-P44 E. Filippaki (NCSR "Demokritos", IMS) - Effect of the Hydrogen-reductive plasma on underwater oxidized objects. Chaotic plasma configuration TU2-P45 S. K. Papadopoulou (AUTh, Dept. of Physics) - Efficacy of hydrophobic polymeric coatings and syperhydrophobic nanoparticle based composite films for the protection of stone TU2-P46 E. Anagnostopoulou (AUTh, Dept. of Physics) - Magnetically induced hyperthermia: Size, phase and concentration-dependent heating power of magnetic nanoparticles TU2-P47 E. Pavlidou (AUTh, Dept. of Physics) - Technique and painting materials characterization of St. Athanasius Church in Moschopolis, Albania (18th Century) TU2-P48 E. Pavlidou (AUTh, Dept. of Physics) - Study of the painting materials from 4th century B.C. Vergina Tomb TU2-P49 A. Chalkidou (AUTh, Dept. of Physics) - Study of the painting materials for magnetic hyperthermia of cancer tissues TU2-P49 E. Sakellariou (AUTh, Dept. of Physics) - Studying technique and pigments of wall paintings in the Byzantine Church of "40 Holy Martyrs" in Veliko- Turnovo in Bulgaria 	TU2-P39	
 TU2-P42 A. Kittas (AUTh, Dept. of Physics) - Trapping in complex networks TU2-P43 E. Filippaki (NCSR "Demokritos", IMS) - Optical emission spectroscopy in a glow discharge plasma during the restoration of iron corroded objects TU2-P44 E. Filippaki (NCSR "Demokritos", IMS) - Effect of the Hydrogen-reductive plasma on underwater oxidized objects. Chaotic plasma configuration TU2-P45 S. K. Papadopoulou (AUTh, Dept. of Physics) - Efficacy of hydrophobic polymeric coatings and syperhydrophobic nanoparticle based composite films for the protection of stone TU2-P45 E. Anagnostopoulou (AUTh, Dept. of Physics) - Magnetically induced hyperthermia: Size, phase and concentration-dependent heating power of magnetic nanoparticles TU2-P47 E. Pavlidou (AUTh, Dept. of Physics) - Technique and painting materials characterization of St. Athanasius Church in Moschopolis, Albania (18th Century) TU2-P48 E. Pavlidou (AUTh, Dept. of Physics) - Study of the painting materials from 4th century B.C. Vergina Tomb TU2-P49 A. Chalkidou (AUTh, Dept. of Physics) - Study in the painting materials from an and the protection of cancer tissues TU2-P49 E. Sakellariou (AUTh, Dept. of Physics) - Studying technique and pigments of wall paintings in the Byzantine Church of "40 Holy Martyrs" in Veliko- Turnovo in Bulgaria 	TU2-P40	
 TU2-P43 E. Filippaki (NCSR "Demokritos", IMS) - Optical emission spectroscopy in a glow discharge plasma during the restoration of iron corroded objects TU2-P44 E. Filippaki (NCSR "Demokritos", IMS) - Effect of the Hydrogen-reductive plasma on underwater oxidized objects. Chaotic plasma configuration TU2-P45 S. K. Papadopoulou (AUTh, Dept. of Physics) - Efficacy of hydrophobic polymeric coatings and syperhydrophobic nanoparticle based composite films for the protection of stone TU2-P46 E. Anagnostopoulou (AUTh, Dept. of Physics) - Magnetically induced hyperthermia: Size, phase and concentration-dependent heating power of magnetic nanoparticles TU2-P47 E. Pavlidou (AUTh, Dept. of Physics) - Technique and painting materials characterization of St. Athanasius Church in Moschopolis, Albania (18th Century) TU2-P48 E. Pavlidou (AUTh, Dept. of Physics) - Study of the painting materials from 4th century B.C. Vergina Tomb TU2-P49 A. Chalkidou (AUTh, Dept. of Physics & Theagenio Cancer Hospital, Molecular Oncology Lab.) - Preparation, characterization and in-vitro toxicity test of nanoparticle-based system for magnetic hyperthermia of cancer tissues TU2-P50 E. Sakellariou (AUTh, Dept. of Physics) - Studying technique and pigments of wall paintings in the Byzantine Church of "40 Holy Martyrs" in Veliko- Turnovo in Bulgaria 	TU2-P41	P. Argyrakis (AUTh, Dept. of Physics) - Scientific collaboration in Europe, and the Overlapping Tree Network
 restoration of iron corroded objects TU2-P44 E. Filippaki (NCSR "Demokritos", IMS) - Effect of the Hydrogen-reductive plasma on underwater oxidized objects. Chaotic plasma configuration TU2-P45 S. K. Papadopoulou (AUTh, Dept. of Physics) - Efficacy of hydrophobic polymeric coatings and syperhydrophobic nanoparticle based composite films for the protection of stone TU2-P46 E. Anagnostopoulou (AUTh, Dept. of Physics) - Magnetically induced hyperthermia: Size, phase and concentration- dependent heating power of magnetic nanoparticles TU2-P47 E. Pavlidou (AUTh, Dept. of Physics) - Technique and painting materials characterization of St. Athanasius Church in Moschopolis, Albania (18th Century) TU2-P48 E. Pavlidou (AUTh, Dept. of Physics) - Study of the painting materials from 4th century B.C. Vergina Tomb TU2-P49 A. Chalkidou (AUTh, Dept. of Physics & Theagenio Cancer Hospital, Molecular Oncology Lab.) - Preparation, characterization and in-vitro toxicity test of nanoparticle-based system for magnetic hyperthermia of cancer tissues TU2-P50 E. Sakellariou (AUTh, Dept. of Physics) - Studying technique and pigments of wall paintings in the Byzantine Church of "40 Holy Martyrs" in Veliko- Turnovo in Bulgaria 	TU2-P42	A. Kittas (AUTh, Dept. of Physics) - Trapping in complex networks
 Chaotic plasma configuration TU2-P45 S. K. Papadopoulou (AUTh, Dept. of Physics) - Efficacy of hydrophobic polymeric coatings and syperhydrophobic nanoparticle based composite films for the protection of stone TU2-P46 E. Anagnostopoulou (AUTh, Dept. of Physics) - Magnetically induced hyperthermia: Size, phase and concentration-dependent heating power of magnetic nanoparticles TU2-P47 E. Pavlidou (AUTh, Dept. of Physics) - Technique and painting materials characterization of St. Athanasius Church in Moschopolis, Albania (18th Century) TU2-P48 E. Pavlidou (AUTh, Dept. of Physics) - Study of the painting materials from 4th century B.C. Vergina Tomb TU2-P49 A. Chalkidou (AUTh, Dept. of Physics & Theagenio Cancer Hospital, Molecular Oncology Lab.) - Preparation, characterization and in-vitro toxicity test of nanoparticle-based system for magnetic hyperthermia of cancer tissues TU2-P50 E. Sakellariou (AUTh, Dept. of Physics) - Studying technique and pigments of wall paintings in the Byzantine Church of "40 Holy Martyrs" in Veliko- Turnovo in Bulgaria 	TU2-P43	
 nanoparticle based composite films for the protection of stone TU2-P46 E. Anagnostopoulou (AUTh, Dept. of Physics) - Magnetically induced hyperthermia: Size, phase and concentration- dependent heating power of magnetic nanoparticles TU2-P47 E. Pavlidou (AUTh, Dept. of Physics) - Technique and painting materials characterization of St. Athanasius Church in Moschopolis, Albania (18th Century) TU2-P48 E. Pavlidou (AUTh, Dept. of Physics) - Study of the painting materials from 4th century B.C. Vergina Tomb TU2-P49 A. Chalkidou (AUTh, Dept. of Physics & Theagenio Cancer Hospital, Molecular Oncology Lab.) - Preparation, characterization and in-vitro toxicity test of nanoparticle-based system for magnetic hyperthermia of cancer tissues TU2-P50 E. Sakellariou (AUTh, Dept. of Physics) - Studying technique and pigments of wall paintings in the Byzantine Church of "40 Holy Martyrs" in Veliko- Turnovo in Bulgaria 	TU2-P44	
 dependent heating power of magnetic nanoparticles TU2-P47 E. Pavlidou (AUTh, Dept. of Physics) - Technique and painting materials characterization of St. Athanasius Church in Moschopolis, Albania (18th Century) TU2-P48 E. Pavlidou (AUTh, Dept. of Physics) - Study of the painting materials from 4th century B.C. Vergina Tomb TU2-P49 A. Chalkidou (AUTh, Dept. of Physics & Theagenio Cancer Hospital, Molecular Oncology Lab.) - Preparation, characterization and in-vitro toxicity test of nanoparticle-based system for magnetic hyperthermia of cancer tissues TU2-P50 E. Sakellariou (AUTh, Dept. of Physics) - Studying technique and pigments of wall paintings in the Byzantine Church of "40 Holy Martyrs" in Veliko- Turnovo in Bulgaria 	TU2-P45	
Moschopolis, Albania (18th Century)TU2-P48E. Pavlidou (AUTh, Dept. of Physics) - Study of the painting materials from 4 th century B.C. Vergina TombTU2-P49A. Chalkidou (AUTh, Dept. of Physics & Theagenio Cancer Hospital, Molecular Oncology Lab.) - Preparation, characterization and in-vitro toxicity test of nanoparticle-based system for magnetic hyperthermia of cancer tissuesTU2-P50E. Sakellariou (AUTh, Dept. of Physics) - Studying technique and pigments of wall paintings in the Byzantine Church of "40 Holy Martyrs" in Veliko- Turnovo in Bulgaria	TU2-P46	
 TU2-P49 A. Chalkidou (AUTh, Dept. of Physics & Theagenio Cancer Hospital, Molecular Oncology Lab.) - Preparation, characterization and in-vitro toxicity test of nanoparticle-based system for magnetic hyperthermia of cancer tissues TU2-P50 E. Sakellariou (AUTh, Dept. of Physics) - Studying technique and pigments of wall paintings in the Byzantine Church of "40 Holy Martyrs" in Veliko- Turnovo in Bulgaria 	TU2-P47	
 characterization and in-vitro toxicity test of nanoparticle-based system for magnetic hyperthermia of cancer tissues TU2-P50 E. Sakellariou (AUTh, Dept. of Physics) - Studying technique and pigments of wall paintings in the Byzantine Church of "40 Holy Martyrs" in Veliko- Turnovo in Bulgaria 	TU2-P48	E. Pavlidou (AUTh, Dept. of Physics) - Study of the painting materials from 4 th century B.C. Vergina Tomb
"40 Holy Martyrs" in Veliko- Turnovo in Bulgaria	TU2-P49	
TU2-P51 A. Lappas (FORTH, IESL) - Order Against Frustration in a Spin-2 Triangular Lattice System α-NaMnO ₂	TU2-P50	
	TU2-P51	A. Lappas (FORTH, IESL) - Order Against Frustration in a Spin-2 Triangular Lattice System α -NaMnO ₂

11 ³⁰ - 13 ⁰⁰	: Session WE2: Poster Session
	EOUS & DISORDERED MATERIALS, POLYMERS & BIOMATERIALS / NANOSCALE & SURFACE SCIENCE
WE2-P1	D. Chasoglou (Chalmers Univ. of Technology, Gothenburg) - <i>Evaluation of surface characteristics of prealloyed Cl</i> <i>Mo-steel powder</i>
WE2-P2	Z. Sompolos (Univ. of Patras, Dept. of Physics) - Study of thin YSZ coatings deposited by e-beam evaporation
WE2-P3	G. E. Vantarakis (Univ. of Crete, Dept. of Materials Science and Technology & Cyprus Univ. of Technology, Dept. of Mechanical and Materials Science Engineering) - <i>Atomistic simulations of carbon nanofoams</i>
WE2-P4	G. C. Hadjisavvas (Cyprus Univ. of Technology, Dept. of Mechanical and Materials Science Engineering) - <i>Theory c</i> defects in Si nanocrystals embedded in a-SiO ₂
WE2-P5	G. Syrrokostas (Univ. of Patras, Dept. of Physics) - Nanostructured thin films for dye sensitized solar cells
WE2-P6	I. Spanos (Univ. of Patras, Dept. of Physics) - Electrolytic Hydrogen production using ternary and quaternary Nicke based coatings
WE2-P7	K. T. Kleovoulou (Univ. of Crete, Dept. of Physics) - Interacting Si nanocrystals in a-SiO ₂ : a Monte Carlo study
WE2-P8	D. Georgakaki (AUTh, Dept. of Physics) - Application of time-series analysis methods for the study of nonlinear dynamical phenomena during nanosurface characterization in AFM metrology
WE2-P9	Ch. B. Lioutas (AUTh, Dept. of Physics) - Structural characterization of Ti / TiB ₂ multi-nano-layer films by means a electron microscopy techniques
WE2-P10	D. Lafatzis (NCSR "Demokritos", INT-RP) - Oxidization behaviour of amorphous SiC coatings
WE2-P11	G. Bokas (Univ. of Ioannina, Dept. of Physics) - CuZr nanoclusters by ab-initio calculations
WE2-P12	M. Gialampouki (Univ. of Ioannina, Dept. of Materials Science and Engineering) - Structural and electronic propertie of octahedral Titanium Oxide on Graphene by ab-initio calculations
WE2-P13	O. Crisan (National Inst. for Materials Physics, Bucharest) - <i>Magnetic nanoclusters synthesized by a new gas stabilised aggregation technique</i>
WE2-P14	E. P. Koumoulos (NTUA, School of Chemical Engineering)- <i>Effect of the adhesive forces and time-dependent respons</i> of polydimethylsiloxane elastomer on the nanomechanical properties determination by nanoindentation
WE2-P15	A. Skarmoutsou (NTUA, School of Chemical Engineering) - Nanoindentation studies and high stress sensitivity of fatigue life of rolled AZ31 Magnesium alloy
WE2-P16	J. N. Remediakis (Univ. of Crete, Dept. of Materials Science and Technology) - Shape and properties of gol nanoparticles
WE2-P17	A. Delimitis (CERTH, CPERI, Thessaloniki) - Electron microscopy studies of the structural transformation of VOHPO ₄ . $1/2H_2O$ precursors to (VO) ₂ P ₂ O ₇ catalysts

Wednesday	
11 ³⁰ - 13 ⁰⁰	: Session WE2: Poster Session
INHOMOGENI	EOUS & DISORDERED MATERIALS, POLYMERS & BIOMATERIALS / NANOSCALE & SURFACE SCIENCE
WE2-P18	A. Zora (Univ. of Athens, Dept. of Physics) - Temperature dependence of photoluminescence in individual self assembled quantum dots
WE2-P19	M. Filippousi (AUTh, Dept. of Physics) - Preparation and characterization of palladium supported on zeolites
WE2-P20	A. Skarmoutsou (NTUA, School of Chemical Engineering) - Nanomechanical and structural properties of deposited binary nitrides thin films grown by Pulsed Laser Deposition
WE2-P21	C. Georgiou (NTUA, School of Chemical Engineering) - <i>Mechanical and electrical properties of epoxy resin filled with multi walled Carbon nanotubes</i>
WE2-P22	G. A. Tritsaris (Technical Univ. of Denmark, Dept. of Physics) - <i>Theoretical investigation of model non-Platinum</i> cathode catalysts for low temperature fuel cells
WE2-P23	N. Tsakiris (AUTh, Dept. of Physics) - Crystal growth model with stress development and relaxation
WE2-P24	C. Batistakis (AUTh, Dept. of Physics) - Percolation theory and phase transitions in granular ferromagnets
WE2-P25	L. Skarpalezos (AUTh, Dept. of Physics) - Simulation of non classical coarsening mechanism in Pb/Si
WE2-P26	K. Brintakis (FORTH, IESL & AUTh, Dept. of Physics) - $Fe_3O_4@Au$ core-shell nanocrystals: magnetic and optice properties
WE2-P27	A. P. Douvalis (Univ. of Ioannina, Dept. of Physics) - Structural and magnetic properties of colloidal Iron oxid magnetic nanoclusters
WE2-P28	A. Tsimpliaraki (AUTh, Dept. of Chemical Engineering) - Organomodification of nanoclays and its role on the porous structure of polymer nanocomposites produced by supercritical CO ₂
WE2-P29	J. Kioseoglou (AUTh, Dept. of Physics) - Atomic scale modelling by the use of a III-species environment approach Implementation on threading dislocations and (Al,In)N/GaN interfaces
WE2-P30	D. Tsikritzis (Univ. of Patras, Dept. of Chemical Engineering - FORTH/ICE-HT) - <i>The electronic structure of N</i> phthalocyanine on ITO/flexible interface studied by photoelectron spectroscopies
WE2-P31	I. Tsiaoussis (AUTh, Dept. of Physics) - Structural characterization of ZnO/Mg _x Zn _{1-x} O and ZnO/MgO thin films grow on sapphire by using HRTEM
WE2-P32	V. Koultoukis (Univ. of Western Macedonia) - Hydrogen storage in the pseudobinary system of $TiMn_{0.4}Fe_{0.2}V_{0.4}$ $TiMn_{0.1}Fe_{0.2}V_{0.7}$ and $Ti_{0.4}Zr_{0.6}Mn_{0.4}Fe_{0.2}V_{0.4}$
WE2-P33	A. Ioannidou (Univ. of Western Macedonia, Dept. of Mechanical Engineering) - <i>Structural properties of the effect of V substitution on the composite Zr-Ti-Cr-V-Ni intermetallic hydrides</i>
WE2-P34	T. E. Karakasidis (Univ. of Thessaly, School of Engineering) - Transport properties of flows at the nanoscale
WE2-P35	T. E. Karakasidis (Univ. of Thessaly, School of Engineering) - Flow in periodically grooved nanochannels studied b computer simulation

a 30 a p 00	
11 ³⁰ - 13 ⁰⁰	: Session WE2: Poster Session
	EOUS & DISORDERED MATERIALS, POLYMERS & BIOMATERIALS / NANOSCALE & SURFACE SCIENCE
WE2-P36	E. Pavlopoulou (FORTH, IESL & Univ. of Crete, Dept. of Materials Science and Technology) - Following the synthesi of metal nanoparticles within pH-responsive micelles and microgels by SAXS
WE2-P37	C. Grigoriadis (Univ. of Ioannina, Dept. of Physics) - Self-assembly and molecular dynamics of nanographenes
WE2-P38	A. Z. Stimoniaris (Univ. of Ioannina, Dept. of Chemistry & TEI of Western Macedonia, Lab. of Physics and Material Technology) - Absorption and diffusion of commercially available cleaning liquids in epoxy resin nanocomposites
WE2-P39	A. Z. Stimoniaris (Univ. of Ioannina, Dept. of Chemistry & TEI of Western Macedonia, Lab. of Physics and Material Technology) - <i>Fluid absorption effects on the dynamics of epoxy resin nanocomposites</i>
WE2-P40	C. G. Delides (TEI of Western Macedonia, Lab. of Physics and Materials Technology) - <i>Epoxy composites filled wite</i> amine modified carbon nanotubes: High voltage corona discharge studies
WE2-P41	H. Zois (TEI of Lamia) - Thermogravimetric properties of epoxy resin/carbon nanotubes nanocomposites
WE2-P42	G. Ioannou (Univ. of Patras, Dept. of Materials Science) - <i>Dielectric and functional properties of polyme</i> matrix/ZnO/BaTiO ₃ hybrid composites
WE2-P43	A. Patsidis (Univ. of Patras, Dept. of Materials Science) - <i>Dielectric response and functionality of polymer matri</i> <i>BaTiO</i> ₃ <i>nanocomposites</i>
WE2-P44	A. Delimitis (CERTH, CPERI, Thessaloniki) - <i>Development of metallic Ag nanowires and nanoparticles on mesoporou silicas: Effect of pore structure and size of the silica support</i>
WE2-P45	G. Kalosakas (Univ. of Patras, Dept. of Materials Science) - Statistical distributions of bubble lengths in DNA
WE2-P46	K. S. Andrikopoulos (TEI of Thessaloniki, Dept. of Applied Science) - Nanoindentation studies of phase separate glasses: The ternary Ag-As-S system
WE2-P47	A. Angelopoulou (NCSR "Demokritos", IMS & Univ. of Patras, Dept. of Materials Science) - About the mixed alka effect
WE2-P48	V. Gountsidou (AUTh, Dept. of Physics) - Modelling Indentation of porous and inhomogenous materials
WE2-P49	T. P. Biros (AUTh, Polytechnic School) - Mechanical properties of collagen fibrils
WE2-P50	E. Vitoratos (Univ. of Patras, Dept. of Physics) - <i>The influence of thermal treatment and ambient atmosphere on th electrical conductivity of polypyrrole and polypyrrole/5%w/w TiO</i> ₂ <i>nanocomposite</i>
WE2-P51	P. Gamaletsos (Univ. of Athens, Faculty of Geology and Geoenvironment) - Spectroscopic (Mössbauer, XANES and FTIR) and thermal investigation of Greek bauxites from the Parnassos- Ghiona active mining area
WE2-P52	E. Mavromati (AUTh, Dept. of Physics) - Fe distribution and speciation in human nails
WE2-P53	A. K. Nikolaidis (AUTh, Dept. of Chemistry) - Mechanical properties of PMMA/organomodified montmorillonit nanocomposites prepared by in situ bulk polymerization

Wednesday, Sept. 23		
11 ³⁰ - 13 ⁰⁰	: Session WE2: Poster Session	
INHOMOGENEOUS & DISORDERED MATERIALS, POLYMERS & BIOMATERIALS / NANOSCALE & SURFACE SCIENCE		
WE2-P54	O. M. Goudouri (AUTh, Dept. of Physics) - Bioactivity atudies of hydroxyapatite based glass-ceramics synthesized by Transferred Arc Plasma (TAP)	
WE2-P55	D. Bikiaris (AUTh, Dept. of Chemistry) - <i>Comparative study of the effect of different nanoparticles on the UV stability of HDPE</i>	
WE2-P56	G. Theodorou (AUTh, Dept. of Physics) - <i>Bioactivity studies of bioactive glasses in different environments: the case of the 45S5 bioglass</i>	
WE2-P57	D. Afouxenidis (C.E.T.I., R.C "ATHENA", Archaeometry Lab., Xanthi & AUTh, Dept. of Physics) - <i>Preliminary TL/OSL</i> characterization on synthetic bioactive materials	
WE2-P58	A. M. Pashou (AUTh, Dept. of Physics) - Raman characterization of psoriatic and healthy nails	



Looking forward to seeing you all in Thessaloniki