

XXV Panhellenic Conference on Solid State Physics and Materials Science
Scientific Program

Tuesday, Sept. 22

11³⁰ - 13⁰⁰ : Session TU2: Poster Session

STRUCTURAL, MECHANICAL & OPTICAL PROPERTIES - 2 / MAGNETISM & SUPERCONDUCTIVITY / CULTURAL HERITAGE MATERIALS & INTERDISCIPLINARY PHYSICS

TU2-P1	D. Tsitrouli (NCSR "Demokritos", IMS) - <i>In vitro and in vivo efficient magnetic heating with polymer-dressed Fe₂O₃ nanoparticles</i>
TU2-P2	P. Pandis (NTUA, School of Chemical Engineering) - <i>Oxygen permeation study through dense ceramic membranes with perovskite structure (Ba_{0.8}Sr_{0.2}M_xB_{1-x}O_{3±δ}, M=Co, Al, B=Mn, Fe, Ni)</i>
TU2-P3	F. Noli (AUTH, Dept. of Chemistry) - <i>Surface characterisation of nitrogen-implanted steel and corrosion behaviour in aggressive environment</i>
TU2-P4	K. Kosmas (NTUA, Lab. of Physical Metallurgy) - <i>On the magnetic properties of plastically deformed Armco steel</i>
TU2-P5	P. Apostolopoulos (AUTH, Dept. of Physics) - <i>Designing composite panels for minimum cost and weight</i>
TU2-P6	F. Pinakidou (AUTH, Dept. of Physics) - <i>Nanostructural characterization of TiN-Cu films using EXAFS spectroscopy</i>
TU2-P7	F. Pinakidou (AUTH, Dept. of Physics) - <i>Micro-XRF and micro-EXAFS studies of an Al matrix Fe-Ni composite</i>
TU2-P8	D. Moussadakos (Univ. of Athens, Dept. of Physics) - <i>Magnetic properties of Nd-Fe-B/3:29 and Sm(CoFeCuZr)_{7.5}/3:29 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) - <i>Thermodynamic evaluation of zinc hot-dip galvanizing</i>
TU2-P12	N. Pistofidis (AUTH, Dept. of Physics) - <i>Evaluation of Fe-Zn diffusion coefficient during hot-dip galvanizing</i>
TU2-P13	M. Papazoglou (AUTH, Dept. of Physics) - <i>Comparative examination on structure and oxidation behavior of pack cementation zinc coated and not coated copper alloys substrates</i>
TU2-P14	M. Papazoglou (AUTH, Dept. of Physics) - <i>Influence of Al and Cr alloying elements on the structure and corrosion resistance of zinc coatings formed by pack cementation process</i>
TU2-P15	D. Hadjiapostolidou (Imperial College London, Dept. of Materials) - <i>Coarsening in René 80 Ni-based superalloy</i>
TU2-P16	K. Mergia (NCSR "Demokritos", INT-RP) - <i>Residual stress measurements on CuCrZr/W brazed alloy using neutron diffraction</i>
TU2-P17	N. Moutis (NCSR "Demokritos", INT-RP) - <i>Brazing of Nimonic superalloy to carbon-based ceramic composites</i>
TU2-P18	Y. Keremi (AUTH, Dept. of Physics) - <i>Effect of indium implantation on the bonding environment of GaN</i>
TU2-P19	E. Siranidi (NTUA, Dept. of Physics) - <i>Pressure-induced phase separation in the Y123 superconductor</i>

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TU2-P20	C. Simserides (NCSR "Demokritos", IMS) - <i>Influence of antiferromagnetic interactions and of alloy disorder on the ferromagnetic properties of p-type (Cd,Mn)Te quantum wells</i>
TU2-P21	M. Vasilakaki (NCSR "Demokritos", IMS) - <i>Numerical study of the exchange bias effect in nanoparticles with ferromagnetic core / ferrimagnetic shell morphology</i>
TU2-P22	N. Panopoulos (NCSR "Demokritos", IMS) - <i>Structural investigation of optimal doped manganites at high temperature NMR</i>
TU2-P23	D. Koumoulis (NCSR "Demokritos", IMS) - ¹³⁹ <i>La NMR study reveals peculiar spin ordering and antiferromagnetism in the overdoped region of La_{1-x}Ca_xMnO₃ phase diagram</i>
TU2-P24	V. Likodimos (Univ. of Athens, Dept. Of Physics) - <i>Matrix effects in carbon nanotube polymer composites</i>
TU2-P25	V. Likodimos (Univ. of Athens, Dept. Of Physics) - <i>Magnetic properties of single-wall carbon nanotubes</i>
TU2-P26	N. Ntallis (AUTH, Dept. of Physics) - <i>Study of a magnetic NDT method with finite elements analysis</i>
TU2-P27	P. Arampatzis-Ziamos (AUTH, Dept. of Physics) - <i>Optimization of time response in electromechanical systems with iron core</i>
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) - <i>Study of the mechanism through which microstructural characteristics affect the impedance of NiCuZn ferrites</i>
TU2-P31	A. Markou (Univ. of Ioannina, Dept. of Materials Science and Engineering) - <i>Magnetic thin films deposited on PDMS nanotemplates</i>
TU2-P32	A. Kotoulas (AUTH, Dept. of Physics) - <i>Controllable synthesis and characterization of hcp and fcc nickel nanoparticles</i>
TU2-P33	I. Giannarakis (AUTH, Dept. of Physics) - <i>The beneficiary role of intentional alloying in noble metal-Cobalt multilayered systems</i>
TU2-P34	Th. Gkinis (AUTH, Dept. of Physics) - <i>Evaluation of iron oxide nanoparticles prepared by high-energy ball milling in drinking water treatment</i>
TU2-P35	A. Gaki (NTUA, School of Chemical Engineering) - <i>Synthesis and magnetic properties of LaCO_{3-δ} and La_{0.8}Sr_{0.2}CoO_{3-δ}</i>
TU2-P36	N. Sheloudko ("St. Kl. Ohridski" Univ. of Sofia, Faculty of Physics) - <i>Magnetic anisotropy of Ho-Fe-Co-Cr intermetallic compounds</i>

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TU2-P37	K. Simeonidis (AUTH, Dept. of Physics)- <i>Structural, morphological and magnetic features in exchange-biased Co nanoparticles</i>
TU2-P38	P. Vlachos (Democritus Univ. of Thrace, Dept. of Electrical and Computer Engineering) - <i>A quantum circuit for quantum key expansion from 6 to 24 Qubits</i>
TU2-P39	K. Chrissafis (AUTH, Dept. of Physics) - <i>Thermal degradation kinetics of in-situ prepared PET nanocomposites containing fumed silica nanoparticles (SiO₂)</i>
TU2-P40	K. Chrissafis (AUTH, Dept. of Physics) - <i>Thermal degradation kinetics of in-situ prepared PET nanocomposites containing organically modified montmorillonite (MMT) nanoparticles</i>
TU2-P41	P. Argyrakis (AUTH, Dept. of Physics) - <i>Scientific collaboration in Europe, and the Overlapping Tree Network</i>
TU2-P42	A. Kittas (AUTH, Dept. of Physics) - <i>Trapping in complex networks</i>
TU2-P43	E. Filippaki (NCSR "Demokritos", IMS) - <i>Optical emission spectroscopy in a glow discharge plasma during the restoration of iron corroded objects</i>
TU2-P44	E. Filippaki (NCSR "Demokritos", IMS) - <i>Effect of the Hydrogen-reductive plasma on underwater oxidized objects. Chaotic plasma configuration</i>
TU2-P45	S. K. Papadopoulou (AUTH, Dept. of Physics) - <i>Efficacy of hydrophobic polymeric coatings and superhydrophobic nanoparticle based composite films for the protection of stone</i>
TU2-P46	E. Anagnostopoulou (AUTH, Dept. of Physics) - <i>Magnetically induced hyperthermia: Size, phase and concentration-dependent heating power of magnetic nanoparticles</i>
TU2-P47	E. Pavlidou (AUTH, Dept. of Physics) - <i>Technique and painting materials characterization of St. Athanasius Church in Moschopolis, Albania (18th Century)</i>
TU2-P48	E. Pavlidou (AUTH, Dept. of Physics) - <i>Study of the painting materials from 4th century B.C. Vergina Tomb</i>
TU2-P49	A. Chalkidou (AUTH, Dept. of Physics & Theagenio Cancer Hospital, Molecular Oncology Lab.) - <i>Preparation, characterization and in-vitro toxicity test of nanoparticle-based system for magnetic hyperthermia of cancer tissues</i>
TU2-P50	E. Sakellariou (AUTH, Dept. of Physics) - <i>Studying technique and pigments of wall paintings in the Byzantine Church of "40 Holy Martyrs" in Veliko- Turnovo in Bulgaria</i>
TU2-P51	A. Lappas (FORTH, IESL) - <i>Order Against Frustration in a Spin-2 Triangular Lattice System α-NaMnO₂</i>