

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

Wednesday, Sept. 23

11³⁰ - 13⁰⁰ : Session WE2: Poster Session

INHOMOGENEOUS & DISORDERED MATERIALS, POLYMERS & BIOMATERIALS / NANOSCALE & SURFACE SCIENCE

WE2-P1	D. Chasoglou (Chalmers Univ. of Technology, Gothenburg) - <i>Evaluation of surface characteristics of prealloyed Cr-Mo-steel powder</i>
WE2-P2	Z. Sompolos (Univ. of Patras, Dept. of Physics) - <i>Study of thin YSZ coatings deposited by e-beam evaporation</i>
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 of defects in Si nanocrystals embedded in α-SiO₂</i>
WE2-P5	G. Syrokostas (Univ. of Patras, Dept. of Physics) - <i>Nanostructured thin films for dye sensitized solar cells</i>
WE2-P6	I. Spanos (Univ. of Patras, Dept. of Physics) - <i>Electrolytic Hydrogen production using ternary and quaternary Nickel based coatings</i>
WE2-P7	K. T. Kleovoulou (Univ. of Crete, Dept. of Physics) - <i>Interacting Si nanocrystals in α-SiO₂: a Monte Carlo study</i>
WE2-P8	D. Georgakaki (AUniv, Dept. of Physics) - <i>Application of time-series analysis methods for the study of nonlinear dynamical phenomena during nanosurface characterization in AFM metrology</i>
WE2-P9	Ch. B. Lioutas (AUniv, Dept. of Physics) - <i>Structural characterization of Ti / TiB₂ multi-nano-layer films by means of electron microscopy techniques</i>
WE2-P10	D. Lafatzis (NCSR "Demokritos", INT-RP) - <i>Oxidization behaviour of amorphous SiC coatings</i>
WE2-P11	G. Bokas (Univ. of Ioannina, Dept. of Physics) - <i>CuZr nanoclusters by ab-initio calculations</i>
WE2-P12	M. Gialampouki (Univ. of Ioannina, Dept. of Materials Science and Engineering) - <i>Structural and electronic properties of octahedral Titanium Oxide on Graphene by ab-initio calculations</i>
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 response of polydimethylsiloxane elastomer on the nanomechanical properties determination by nanoindentation</i>
WE2-P15	A. Skarmoutsou (NTUA, School of Chemical Engineering) - <i>Nanoindentation studies and high stress sensitivity of fatigue life of rolled AZ31 Magnesium alloy</i>
WE2-P16	J. N. Remediakis (Univ. of Crete, Dept. of Materials Science and Technology) - <i>Shape and properties of gold nanoparticles</i>
WE2-P17	A. Delimitis (CERTH, CPERI, Thessaloniki) - <i>Electron microscopy studies of the structural transformation of VOHPO₄.1/2H₂O precursors to (VO)₂P₂O₇ catalysts</i>

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WE2-P18	A. Zora (Univ. of Athens, Dept. of Physics) - <i>Temperature dependence of photoluminescence in individual self-assembled quantum dots</i>
WE2-P19	M. Filippousi (AUn, Dept. of Physics) - <i>Preparation and characterization of palladium supported on zeolites</i>
WE2-P20	A. Skarmoutsou (NTUA, School of Chemical Engineering) - <i>Nanomechanical and structural properties of deposited binary nitrides thin films grown by Pulsed Laser Deposition</i>
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. Tritsarlis (Technical Univ. of Denmark, Dept. of Physics) - <i>Theoretical investigation of model non-Platinum cathode catalysts for low temperature fuel cells</i>
WE2-P23	N. Tsakiris (AUn, Dept. of Physics) - <i>Crystal growth model with stress development and relaxation</i>
WE2-P24	C. Batistakis (AUn, Dept. of Physics) - <i>Percolation theory and phase transitions in granular ferromagnets</i>
WE2-P25	L. Skarpalezos (AUn, Dept. of Physics) - <i>Simulation of non classical coarsening mechanism in Pb/Si</i>
WE2-P26	K. Brintakis (FORTH, IESL & AUn, Dept. of Physics) - <i>Fe₃O₄@Au core-shell nanocrystals: magnetic and optical properties</i>
WE2-P27	A. P. Douvalis (Univ. of Ioannina, Dept. of Physics) - <i>Structural and magnetic properties of colloidal Iron oxide magnetic nanoclusters</i>
WE2-P28	A. Tsimpliaraki (AUn, Dept. of Chemical Engineering) - <i>Organomodification of nanoclays and its role on the porous structure of polymer nanocomposites produced by supercritical CO₂</i>
WE2-P29	J. Kioseoglou (AUn, Dept. of Physics) - <i>Atomic scale modelling by the use of a III-species environment approach: Implementation on threading dislocations and (Al,In)N/GaN interfaces</i>
WE2-P30	D. Tsikritzis (Univ. of Patras, Dept. of Chemical Engineering - FORTH/ICE-HT) - <i>The electronic structure of Ni-phthalocyanine on ITO/flexible interface studied by photoelectron spectroscopies</i>
WE2-P31	I. Tsiaoussis (AUn, Dept. of Physics) - <i>Structural characterization of ZnO/Mg_xZn_{1-x}O and ZnO/MgO thin films grown on sapphire by using HRTEM</i>
WE2-P32	V. Kouloutoukis (Univ. of Western Macedonia) - <i>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}</i>
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) - <i>Transport properties of flows at the nanoscale</i>
WE2-P35	T. E. Karakasidis (Univ. of Thessaly, School of Engineering) - <i>Flow in periodically grooved nanochannels studied by computer simulation</i>

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WE2-P36	E. Pavlopoulou (FORTH, IESL & Univ. of Crete, Dept. of Materials Science and Technology) - <i>Following the synthesis of metal nanoparticles within pH-responsive micelles and microgels by SAXS</i>
WE2-P37	C. Grigoriadis (Univ. of Ioannina, Dept. of Physics) - <i>Self-assembly and molecular dynamics of nanographenes</i>
WE2-P38	A. Z. Stimoniari (Univ. of Ioannina, Dept. of Chemistry & TEI of Western Macedonia, Lab. of Physics and Materials Technology) - <i>Absorption and diffusion of commercially available cleaning liquids in epoxy resin nanocomposites</i>
WE2-P39	A. Z. Stimoniari (Univ. of Ioannina, Dept. of Chemistry & TEI of Western Macedonia, Lab. of Physics and Materials 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 with amine modified carbon nanotubes: High voltage corona discharge studies</i>
WE2-P41	H. Zois (TEI of Lamia) - <i>Thermogravimetric properties of epoxy resin/carbon nanotubes nanocomposites</i>
WE2-P42	G. Ioannou (Univ. of Patras, Dept. of Materials Science) - <i>Dielectric and functional properties of polymer matrix/ZnO/BaTiO₃ hybrid composites</i>
WE2-P43	A. Patsidis (Univ. of Patras, Dept. of Materials Science) - <i>Dielectric response and functionality of polymer matrix BaTiO₃ nanocomposites</i>
WE2-P44	A. Delimitis (CERTH, CPERI, Thessaloniki) - <i>Development of metallic Ag nanowires and nanoparticles on mesoporous silicas: Effect of pore structure and size of the silica support</i>
WE2-P45	G. Kalosakas (Univ. of Patras, Dept. of Materials Science) - <i>Statistical distributions of bubble lengths in DNA</i>
WE2-P46	K. S. Andrikopoulos (TEI of Thessaloniki, Dept. of Applied Science) - <i>Nanoindentation studies of phase separated glasses: The ternary Ag-As-S system</i>
WE2-P47	A. Angelopoulou (NCSR "Demokritos", IMS & Univ. of Patras, Dept. of Materials Science) - <i>About the mixed alkali effect</i>
WE2-P48	V. Gountsidou (AUTH, Dept. of Physics) - <i>Modelling Indentation of porous and inhomogenous materials</i>
WE2-P49	T. P. Biros (AUTH, Polytechnic School) - <i>Mechanical properties of collagen fibrils</i>
WE2-P50	E. Vitoratos (Univ. of Patras, Dept. of Physics) - <i>The influence of thermal treatment and ambient atmosphere on the electrical conductivity of polypyrrole and polypyrrole/5%w/w TiO₂ nanocomposite</i>
WE2-P51	P. Gamaletsos (Univ. of Athens, Faculty of Geology and Geoenvironment) - <i>Spectroscopic (Mössbauer, XANES and FTIR) and thermal investigation of Greek bauxites from the Parnassos- Ghiona active mining area</i>
WE2-P52	E. Mavromati (AUTH, Dept. of Physics) - <i>Fe distribution and speciation in human nails</i>
WE2-P53	A. K. Nikolaidis (AUTH, Dept. of Chemistry) - <i>Mechanical properties of PMMA/organomodified montmorillonite nanocomposites prepared by in situ bulk polymerization</i>

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WE2-P54 **O. M. Goudouri** (AUTH, Dept. of Physics) - *Bioactivity studies of hydroxyapatite based glass-ceramics synthesized by Transferred Arc Plasma (TAP)*

WE2-P55 **D. Bikiaris** (AUTH, Dept. of Chemistry) - *Comparative study of the effect of different nanoparticles on the UV stability of HDPE*

WE2-P56 **G. Theodorou** (AUTH, Dept. of Physics) - *Bioactivity studies of bioactive glasses in different environments: the case of the 45S5 bioglass*

WE2-P57 **D. Afouxenidis** (C.E.T.I., R.C "ATHENA", Archaeometry Lab., Xanthi & AUTH, Dept. of Physics) - *Preliminary TL/OSL characterization on synthetic bioactive materials*

WE2-P58 **A. M. Pashou** (AUTH, Dept. of Physics) - *Raman characterization of psoriatic and healthy nails*