

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

**Monday, Sept. 21**

**11<sup>30</sup> - 13<sup>00</sup> : Session MO2: Poster Session**

**STRUCTURAL, MECHANICAL & OPTICAL PROPERTIES - 1 / ELECTRONIC TRANSPORT, SEMICONDUCTORS & DEVICES / PHOTONICS & OPTOELECTRONICS**

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

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| MO2-P19 | <b>Ch. Motsanos</b> (Univ. of Crete, Dept. of Materials Science and Technology) - <i>A maximum in the strength of superhard Rhenium borides</i>   |
| MO2-P20 | <b>Th. Ch. Hasapis</b> (AUTH, Dept. of Physics) - <i>Far infrared spectra and structure of <math>(K_2S)_x(Sb_2S_3)_{100-x}</math> glasses</i>   |
| MO2-P21 | <b>E. Ramou</b> (Univ. of Patras, Dept. of Physics) - <i>On the measurement of the instability thresholds of nematic liquid crystal</i>   |
| MO2-P22 | <b>E. M. Pechlivani</b> (AUTH, Dept. of Physics) - <i>Interaction between heterostructural interfaces and structural faults in GaN / <math>Al_xGa_{1-x}N</math> on <math>Al_2O_3</math> thin films</i>                                  |
| MO2-P23 | <b>Th. Kehagias</b> (AUTH, Dept. of Physics) - <i>Mechanisms of indium segregation in MOVPE and MBE grown InAlN epilayers</i>   |
| MO2-P24 | <b>M. Gioti</b> (AUTH, Dept. of Physics) - <i>Evaluation of the optical properties, stoichiometry and composition of <math>SiO_x</math> films on PET by ellipsometry</i>  |
| MO2-P25 | <b>D. Georgiou</b> (AUTH, Dept. of Physics) - <i>Effect of thickness on the optical properties of CuPc and C60 thin films for organic photovoltaic applications</i>   |
| MO2-P26 | <b>A. Laskarakis</b> (AUTH, Dept. of Physics) - <i>Effect of thickness in the optical properties of organic thin films deposited via organic vapor phase deposition</i>   |
| MO2-P27 | <b>E. D. Vanidhis</b> (AUTH, Dept. of Physics) - <i>Theoretical calculations to determine the electro-gyration coefficients in point group of <math>CaCO_3</math></i>   |
| MO2-P28 | <b>E. Kalesaki</b> (AUTH, Dept. of Physics) - <i>Morphological and structural characterization of polar and semipolar GaN quantum dots in AlN</i>   |
| MO2-P29 | <b>M. Marinova</b> (AUTH, Dept. of Physics) - <i>Typical structural defects in 3C-SiC layers grown by various methods on different substrates</i>   |
| MO2-P30 | <b>A. Lotsari</b> (AUTH, Dept. of Physics) - <i>Structural and mechanical properties of AlN:Ag nanocomposite coatings grown by pulsed laser deposition</i>  |
| MO2-P31 | <b>C. Aris Chatzidimitriou-Dreismann</b> (Technical Univ. of Berlin, Inst. of Chemistry) - <i>Scattering of fast neutrons from protons in solids (<math>NbH_{0.80}</math> and LiH): New quantum effects in the attosecond timescale</i> |
| MO2-P32 | <b>D. Berdekas</b> (Direction of High Schools Education of Larissa) - <i>The influence of the disorder in the Raman spectra of GaSb/AlSb (001) superlattices</i>  |
| MO2-P33 | <b>G. Mitrikas</b> (NCSR "Demokritos", IMS) - <i>Probing the electronic structure of molecular magnets by pulse EPR methods</i>   |
| MO2-P34 | <i>Withdrawn</i>  |
| MO2-P35 | <b>A. Vomvas</b> (Univ. of Patras, Dept. of Physics) - <i>Dark conductivity and photoconductivity behavior of sol-gel S-doped <math>TiO_2</math>, thermally treated at different temperatures</i>                                       |

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