

36^ο Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης και Επιστήμης Υλικών

36th Panhellenic Conference on Solid State Physics and Materials Science

Program

Monday, 26/09/2022

08:00 Registration

08:45 Opening remarks: G. Kioseoglou, Conference Chair

Department of Materials Science and Technology, University of Crete and FORTH/IESL

Welcome, S.H. Anastasiadis, Director

Institute of Electronic Structure and Laser, Foundation for Research and Technology - Hellas

Session: 2D Materials

Chair: G. Kioseoglou

09:00 **Xavier Marie (Keynote)**

Exciton Complexes and Spin/valley Pumping in 2D semiconductors

S. Doukas, A.C. Tasolamprou, A.D. Koulouklidis, S. Tzortzakis, I. Goykhman, A.C. Ferrari,

09:40 *E. Lidorikis*

A self-consistent framework for modeling graphene-based optoelectronic devices

S. Psilodimitrakopoulos, L. Mouchliadis, G.M. Maragkakis, G. Kourmoulakis, I. Demeridou,

09:55 *A. Lemonis, G. Kioseoglou, E. Stratakis*

Polarization-Resolved Second Harmonic Generation Imaging in 2D Materials

M. Stavrou, A. Stathis, D. Theodoropoulou, N. Chazapis, S. Couris

10:10 *Nonlinear optical properties of 2D materials: from graphene to silicene and to other 2D materials*

I. Paradisanos, G. Wang, E.M. Alexeev, A.R. Cadore, A.C. Ferrari, X. Marie, B. Urbaszek,

10:25 *M.M. Glazov*

Efficient phonon cascades in an atomically thin semiconductor

10:40 *S. Katsiaounis, Nikos Delikoukos, J. Parthenios, K. Papagelis*

Time-Resolved Raman scattering in exfoliated and CVD graphene crystals

I.K. Sideri, G. Charalambidis, A.G. Coutsolelos, R. Arenal, N. Tagmatarchis

10:55 *Pyridine vs imidazole axial ligation on cobaloxime grafted graphene: Hydrogen evolution reaction insights*

11:10

Coffee break

Session: Photonics - Optoelectronics I

Chair: M. Kafesaki

11:40 M. Kandyla (Invited)

Laser micro/nano processing for photonics, optoelectronics, and smart surfaces

A. Laskarakis (Invited)

12:05 *Optimizing large area fabrication of printed nanolayers for Organic Electronics by In-Line Metrology*

K. Kosma, K. Konstantinos, E. Kaselouris, M. Kaniolakis-Kaloudis, M. Bakarezos, M. Tatarakis, V. Dimitriou, N.A. Papadogiannis

12:30 *Pump-probe Reflectivity Studies of Ultrashort Laser-induced Acoustic Strains in Layered Materials*

G. Antoniou, P. Yuan, L. Koutsokeras, P.E. Keivanidis

12:45 *Triplet-excited State Fusion as a Tool to Photostimulate Vertically-configured Organic Photodetectors*

A. Bardakas, A. Segkos, G. Katsikis, G. Vekinis, C. Tsamis

13:00 *Performance of SiC-doped 3D printed PLA for triboelectric energy harvesting*

A.D. Koulouklidis, A.C. Tasolamprou, S. Doukas, E. Kyriakou, C. Daskalaki, M. Said Ergoktas,

13:15 E.N. Economou, E. Lidorikis, M. Kafesaki, C. Kocabas, S. Tzortzakis
THz Self-induced Actions on a Graphene Based Thin Film Absorber

M. Gioti, D. Tselekidou, K. Papadopoulos, V. Kyriazopoulos, K.C. Andrikopoulos,

13:30 A.K. Andreopoulou, J.K. Kallitsis
Single-layer white OLEDs: blended polymers and copolymers as emitting films

13:45 **Lunch break**

Session: Nanomaterials I

Chair: M. Katsikini

S. Gardelis (Invited)

14:45 *Silver-decorated silicon nanostructures for plasmon-induced enhancement of Raman scattering and fluorescence*

P.E. Stamatopoulou, S. Fiedler, C. Wolff, N.A. Mortensen, C. Tserkezis, A. Assadillayev,

15:10 S. Raza, H. Sugimoto, M. Fujii
Transition radiation in cathodoluminescence spectra of silicon nanoparticles

15:25 N. Sorogas, K. Papagelis, A.N. Anagnostopoulos, J. Arvanitidis, D. Christofilos
Comparative Study of Sn_{Sx}Se_{2-x} alloys by High Pressure Raman Spectroscopy

15:40 I. Konidakis, E. Stratakis
Post-melting encapsulation for the development of advanced composite glasses

M.P. Minadakis, R. Canton-Vitoria, C. Stangel, N. Tagmatarchis, R. Arenal

15:55 *Exfoliated WS₂ interfacing Ni-porphyrin with (photo)electrocatalytic activity for the oxygen evolution reaction*

16:10 M.-A. Apostolaki, S. Gardelis, V. Likodimos, E. Sakellis, P. Tsipas, N. Boukos, A. Dimoulas
Co-assembly of Heterojunction WO₃/TiO₂ Inverse Opal Films for Photoinduced Applications

16:25

Coffee break

Session: Polymers

Chair: E. Pavlopoulou

16:45 **T. Krasia-Christoforou (Invited)**
Polymer-based electrospun fibrous nanocomposites

17:10 **M. Chatzichristidi (Invited)**
Fluoropolymer surfaces modification via lithographic techniques

17:35 A. Rissanou, A.F. Behbahani, V. Harmandaris
Study of Polybutadiene/Silica Nanocomposites through Molecular Dynamics Simulations

17:50 A.A. Barmdaki, E.E. Zavvou, M.A. Botzakaki, N.J. Xanthopoulos, A. Giannakas, C.E Salmas,
P.K. Karahaliou, P. Svarnas, A. Ladavos, C.A. Krontiras
Influence of filler and/or ZnO-coating on the physical properties of Poly(lactic acid)/TiO₂ bionanocomposites

18:05 Th.-M. Chatzaki, F. Krasanakis, K. Chrissopoulou, S.H. Anastasiadis
Utilizing Polymer Coatings for the Development of Superhydrophobic and Water Repellent Surfaces

18:20 S.X. Drakopoulos, J. Cui, M. Asandulesa, S. Bronnikov, A. Nogales, K. Asadi
Charge Transport and Interfacial Dipolar Effects in Conjugated Polymers

Session: Posters I

18:45 Posters and discussion

Tuesday, 27/09/2022

Session: Biomaterials

Chair: S. H. Anastasiadis

- 09:00 G. Malliaras (Keynote)**
New Materials and Devices for Bioelectronic Medicine
- 09:40 A.A. Bakopoulou (Invited)**
Applications of Advance Therapy Medicinal Products in Oral Medicine
- 10:05 Ch.E. Lekka, (Invited)**
Anti-bacteria Ti- based alloys for bone implants
- 10:30 K. Loukelis, G.-I. Kontogianni, D. Vlassopoulos, M. Chatzinikolaidou**
3D bioprinted constructs for bone tissue regeneration
- 10:45 G.K. Pouroutzidou, E. Kontonasaki, D. Bikiaris**
Incorporation of Moxifloxacin-Loaded Silica-Based Mesoporous Nanocarriers in Electrospun PLGA Fibers for Periodontal Regeneration
- 11:00 A. Kordas, P. Manganas, A. Ranella, M. Farsari**
3D scaffolds via Multi-Photon Polymerization for the directed neurite development in co-culture systems
- 11:15 Coffee break**

Session: Energy

Chair: E. Kymakis

- 11:45 F. Farmakis (Invited)**
Micro and nano-engineered silicon for high energy density lithium-ion cells
- 12:10 P.S. Ioannou, E. Kyriakides, O. Schneegans, J. Giapintzakis**
Lithionic two-terminal resistive switching devices with analog memory and a nanobattery architecture based on $Li_{1-x}CoO_2$ cathode, SiO_x electrolyte and $Li_{4+3x}Ti_5O_{12}$ anode
- 12:25 E. Glynos, G. Nikolakakou, D. Kritsiotakis, C. Pantazidis, G. Sakellariou**
High Performance Single-ion Polymer Electrolytes via Macromolecular Engineering
- 12:40 D.K. Manousou, S.B. Atata, M. Calamiotou, S. Gardelis, Y.J. Sohna, K. Friese**
Phase evolution of $V_{1-x}Fe_xO_2$, ($x=0, 0.5, 0.75, 1.0$ %) system as a function of temperature
- 12:55 A. Kostopoulou, K. Brintakisa, D. Vernardou, E. Stratakis**
Advanced photonic processes for low-cost and safe perovskite-based energy storage devices
- 13:10 L. Zouridi, E. Gagaoudakis, E. Mantsiou, A. Vourros, J. Garagounis, G.E. Marnellos, V. Binas**
Mechanochemical synthesis, processing and printability of $La_{1-x}Sr_xTi_{1-y}Mn_yO_{3+\delta}$ perovskites as mixed ion-electron conducting (MIEC) materials
- 13:25 G. Viskadouros, K. Rogdakis, I. Kalogerakis, E. Spiliarotis, E. Kymakis**
Integration of two-dimensional materials-based perovskite solar panels into a stand-alone solar farm
- 13:40 Lunch break**

Session: Strongly Correlated Systems

Chair: C. Stoumpos

- 14:45** R. Frantzeskakis, J. Van Dyke, S. Economou, E. Barnes
Time-crystalline behavior in central-spin models with Heisenberg interactions
- Z. Viskadourakis, G. Kenanakis, J. Giapintzakis
- 15:00** *Magnetic field effect on the thermoelectric properties of semiconducting $\text{LaNi}_{0.2}\text{Co}_{0.8}\text{O}_3$ and metallic $\text{LaNi}_{0.7}\text{Co}_{0.3}\text{O}_3$*
- 15:15** S. Komineas, N. Papanicolaou
Skyrmions in antiferromagnets
- M. Kaitatzi, A. Deltsidis, A. Missiul, E.S. Bozin, A. Lappas
- 15:30** *Hybrid networks based on the interplay of Au nano-particles and CuPcSu ligands-electronic transport in mesoscopic scale*
- 15:45** O. Manos, A. Sigalos, D. Niarchos
COMSOL simulations of assemblies of sub-millimeter NdFeB -based magnets
- 16:00** **Coffee break**

Session: Photonics - Optoelectronics II

Chair: J. Parthenios

L.C. Palilis (**Invited**)

- 16:20** *Metal oxides and organic molecules for interface engineering in high performance polymer solar cells*
- M. Maniadi, B. Cucco, X. Wang, S. Li, A. Pantousas, M. Kepenekian, P. Guo, G. Volonakis,
- 16:45** C.C. Stoumpos
'Breathing' 2D Hybrid Double Halide Perovskites consisting of non-toxic elements
- A.E. Mavropoulis, N. Vasileiadis, T. Tsiamis, C. Theodorou, L. Sygelloud, P. Normand,
- 17:00** G.Ch. Sirakoulis, P. Dimitrakis
On the effect of SOI substrate in silicon nitride resistance switching MIS structures
- 17:15** P. Pascariu, L. Georgescu, E. Koudoumas, M.P. Suchea
Electrospinning of TiO_2 based semiconductor nanofibers with enhanced photocatalytic properties
- N. Mouti, A. Kaidatzis, K. Giannakopoulos
- 17:30** *Superhydrophilic low temperature TiO_2 ultra thin films deposited on CSP mirrors by magnetron Sputtering*

Session: Posters II

18:00 Posters and discussion

21:00

Conference dinner

Wednesday, 28/09/2022

Session: Theory and Simulations

Chair: P. Kelires

- 09:00** G.M. Kavoulakis
Quantum droplets in mixtures of cold atomic gases
- 09:15** E.G. Karvelas, Christos Liosis, I. Sarris, T.E. Karakasidis
Evaluation of the Tesla valve as a micromixer for Fe₃O₄ nanoparticles and contaminated water
- 09:30** O. Tsilipakos, M. Kafesaki, E.N. Economou, C.M. Soukoulis, T. Koschny
Artificial multiresonant sheet materials for broadband wave manipulations
- 09:45** A. Theodosi, O. Tsilipakos, C.M. Soukoulis, E.N. Economou, M. Kafesaki
Hybrid Graphene – Gold Metasurfaces for Enhanced Third Harmonic Generation Efficiency
- G.D. Tsibidis, P. Lingos, E. Stratakis
10:00 *The synergy of electromagnetic effects and thermophysical properties of metals in the formation of laser induced periodic surface structures*
- M. Arnittali, A.N. Rissanou, V. Harmandaris
10:15 *Nanostructured Systems of Diphenylalanine Peptides and Graphene Sheets: an Atomistic Simulation Study*
- E. Pervolarakis, D. Katerinopoulou, G. Kiriakidis, Z. Łodziana, E. Iliopoulos, G.A. Tritsarlis, P. Rosakis, I.N. Remediakis
10:30 *Case-Studies for Computer-aided Materials Design: alloyed Hausmanites and Gold Nanoparticles*
- R.M. Giappa, A. Pantousas, G. Kopidakis, I.N. Remediakis, C.C. Stoumpos
10:45 *Modelling catalyst materials for CO₂ reduction: from metal nanoparticles to halide perovskites*
- 11:00** **Coffee break**

Session: Nanomaterials II

Chair: E. Lidorikis

- 11:30** D. Mantione, E. Istif, L. Vallan, G. Dufil, D. Parker, E. Stavrinidou, E. Pavlopoulou
Novel Conducting Trimers for In Vivo Electronic Functionalization of Tissues
- 11:45** G.G. Gkikas, V. Spanou, C.C. Stoumpos, A. Lappas
Phase transitions and electric dipole moments in hybrid halide perovskite single crystals
- G. Zyla, S. Gorb, A. Ostendorf
12:00 *Nature as an inspiration for printing angle-insensitive structural colors using two-photon polymerization*
- 12:15** K. Papadopoulos, K. Manousakis, G.K. Angeli, C. Tsangarakis, E. Loukopoulos, P.N. Trikalitis
Design and Development of Functionalized PillarLayered MOFs
- I. Vamvasakis, E.K. Andreou, G.S. Armatas
12:30 *Co-catalyst assisted mesoporous II-VI metal sulfide nanocrystal assemblies for highly efficient photochemical water-splitting and hydrogen production*

C. Floraki, K. Brintakis, A. Kostopoulou, E.Stratakis, D. Vernardou

12:45 *Spray Deposition of LiFePO₄ on Al foil as cathode for Li-ion batteries*

Industrial Session & Closing

13:00 *Industrial session*

13:30

Closing Remarks

14:00

Light Lunch

Posters I - Monday

Surfaces, nanomaterials, and low-dimensional systems

- E.K. Andreou, I. Vamvasakis, G.S. Armatas
P1.1 *Mesoporous Architectures of Spinel Chalcogenide Nanoparticles Coupled with Transition Metal Phosphides for Photochemical Water Splitting and Hydrogen Production*
- G.K. Angeli, C. Tsangarakis, P.N. Trikalitis
P1.2 *Novel Metal Organic Frameworks for Desulfurization of Oil based Fuels*
- S.B. Atata, I. Lelidis
P1.3 *Phase diagram and Freedericks transition in nanocomposites of a liquid crystal and quantum dots*
- N. Balakeras, K. Filintoglou, A. Michail, K. Stergiou, I. Parthenios, K. Papagelis
P1.4 *Scaling up the synthesis of single layer MoS₂ crystals*
- K. Brintakis, A. Kostopoulou, E. Stratakis,
P1.5 *Laser-assisted processes on metal halide perovskite nanocrystals: Shape/dimensionality transformations and conjugation with 2D materials*
- M. Charalampakis, E. Loukopoulos, E. Skliri, G. Kyriakidis, P.N. Trikalitis, V. Bina
P1.6 *Formation of Black Titania by Ammonolysis for Photocatalytic Hydrogen Production*
- N. Dimogerontaki, K. Turlouki, E. Svinterikos, N. Kehagias
P1.7 *Development of novel Nanostructured surfaces using Residual Layer Free Nanoimprint Lithography and Metal Assisted Chemical Etching*
- A. Douloumis, C.C. Stoumpos, G. Kopidakis, I.N. Remediakis
P1.8 *Electronic structure of photocatalytic materials: doped ZnO and gold-perovskite interfaces.*
- K.G. Froudas, G.K. Angeli, P.N. Trikalitis
P1.9 *Implementation of Hard-Soft Chemistry for one-Pot Synthesis of Bimetallic MOFs Suitable for Xe/Kr Separation*
- K. Giannaris, S. Stefa, V. Binas, M.M. Stylianakis, K. Chrissopoulou, S.H. Anastasiadis
P1.10 *Dispersibility Determination of Stable g-C₃N₄ Colloidal Suspensions in Common Solvents*
- F. Gojda, L. Papoutsakis, M. Loulakis, S. Tzortzakis, K. Chrissopoulou, S.H. Anastasiadis
P1.11 *Development of Functional Materials Surfaces*
- I. Karnis, F. Krasanakis, A.N. Rissanou, K. Karatasos, K. Chrissopoulou
P1.12 *Polymer / Graphene Oxide Nanocomposites: Investigating the Effect of the Interfacial Interactions on Structure and Properties*
- D. Katrisioti, E. Katsipoulaki, E. Stratakis, G. Kioseoglou
P1.13 *Photochemically doped MoSe₂ monolayers*
- E. Katsipoulaki, I. Demeridou, E. Stratakis, G. Kioseoglou
P1.14 *Control of electron density in WSe₂ monolayers via photochlorination*
- I. Kochylas, M.A. Apostolaki, V. Likodimos, S. Gardelis, A. Dimitriou, L. Patsiouras,
P1.15 M.C. Skoulikidou, N. Papanikolaou, G.Geka, A. Kanioura, P.Petrou
SiNWs/Ag nanostructures fabricated by a single step MACE process for the detection of biological substances
- G. Kourmoulakis, S. Psilodimitrakopoulos, G.M. Maragkakakis, L. Mouchliadis, A. Michail,
P1.16

- J.A. Christodoulides, J. Parthenios, K. Papagelis, E. Stratakis, G. Kioseoglou
Identification of non-uniform strain in WS₂ monolayers using P-SHG
C.G. Livas, G.E. Froudakis, E. Tylianakis
- P1.17** *Enhancing of CO uptake in Metal-Organic Frameworks by linker functionalization; A Multi-scale theoretical study*
E. Loukopoulos, M. Charalampakis, K. Papadopoulos, E. Skliri, V. Binas, P.N. Trikalitis
- P1.18** *Development of TiO₂/MOF Nanostructured Composites Towards Photocatalytic Hydrogen Conversion*
S. Loukopoulos, S. Gardelis, V. Iliodimos, Z. Sideratou, F. Katsaros, E. Sakelis, A.G. Kontos
- P1.19** *Heterostructured Au/Ag-MoS₂-TiO₂ inverse opal photocatalysts*
E. Gagaoudakis, E. Mantsiou, L. Zouridi, X. Maragaki, E. Aperathitis, G. Kiriakidis, V. Binas
- P1.20** *Study of the thermochromic performance of hydrothermally synthesized Vanadium dioxide powder for energy efficient buildings*
G.M. Maragkakis, S. Psilodimitrakopoulos, L. Mouchliadis, A.S. Sarkar, A. Lemonis,
- P1.21** *Nonlinear Optical Imaging of In-Plane Anisotropy in Two-Dimensional SnS*
G. Kioseoglou, E. Stratakis
- P1.22** *Ferromagnetic Resonance in Ru/Co/MoPt multilayers*
P. Ntetsika, R. Gupta, R. Brucas, P. Svedlindh, G. Mitrikas, I. Panagiotopoulos
- P1.23** *Surface modification of Mo-BiVO₄ photonic crystal photocatalysts by Au and Ag plasmonic nanoparticles*
M. Pylarinou, S. Gardelis, V. Iliodimos, E. Sakellis, P. Tsipas, N. Boukos, A. Dimoulas
- P1.24** *Can accurate machine learning models pinpoint the best materials efficiently?*
A.P. Sarikas, G.S. Fanourgakis, G.E. Froudakis
- P1.25** *Chemically modified carbon nanostructures as carriers of enhanced qualities for fabrics performing under critical operational conditions*
I.K. Sideri, A. Kagkoura, C. Stangel, S. Vasilakos, D. Siamidis, S. Pavlidou, P. Perimenis, N.S. Heliopoulos, N. Tagmatarchis
- P1.26** *Highly active catalysts (Ni, Pt) supported on strontium titanate (SrTiO₃) for hydrogen evolution*
A.P. Souri, E. Skliri, I. Vamvasakis, G.S. Armatas, V. Binas
- P1.27** *Room temperature synthesis of hydrophilic, highly-fluorescent metal halide perovskite nanocrystals for biomedical applications*
M. Splinaki, A. Kostopoulou, K. Brintakis, E. Stratakis
- P1.28** *From Order to Disorder of Alkanethiol SAMs on Complex Au (211), (221) and (311) Surfaces: Impact of the Substrate*
D. Stefanakis, V. Harmandaris, G. Kopidakis, I. Remediakis
- P1.29** *Thermoelectric properties of n-type PbS nanocrystals doped with two-dimensional lead bromide perovskites*
M.E. Trantafyllou-Rundell, C. Fiedler, C.C. Stoumpos, M. Ibáñez
- P1.30** *Performance and stability improvement of inverted perovskite solar cells by interface modification of charge transport layers using an Azulene-pyridine molecule.*
N. Tzoganakis, B. Feng, M. Loizos, K. Chatzimanolis, M. Krassas, D. Tsikritzis, X. Zhuang, E. Kymakis
- P1.31** *Performance and stability improvement of inverted perovskite solar cells by interface modification of charge transport layers using an Azulene-pyridine molecule.*
D. Tsikritzis, N. Tzoganakis, B. Feng, M. Loizos, M. Krassas, X. Zhuang, and E. Kymakis

Surface engineering of charge transport in inverted perovskite solar cells with azulene derivatives

G. Vailakis, G. Kopidakis

P1.32 *Electronic band structure of Gr/MS₂ (M=Mo, W) and WX₂/MoX₂ (X=S, Se) van der Waals heterostructures*

M. Vlachos, E. Tylianakis, E. Klontzas, M. Severi, G. Turtù, F. Zerbetto, G. Froudakis

P1.33 *Multiscale Computational study of 5- Fluorouracil delivery by Zeolite Imidazole Frameworks (ZIFs)*

N.R. Vrithias, M. Sevastaki, G. Kenanakis

P1.34 *3D printed photocatalysts against liquid laundry detergents*

Structural, dynamical and mechanical properties of condensed matter

D. Fylaktopoulou, K. Kamarakis, A. Tsanios, P.S. Selinof, A. Kassas, D. Delali, P.M. Kiritsi,

P1.35 S. Rentzis, Y. Fortouna, A. Balerba, Ch. E. Lekka

Structural and electronic properties of β Ti-based alloys by density functional theory

K. Mavridou, F. Pinakidou, M. Katsikini, J. Arvanitidis, E.C. Paloura, M. Brzhezinskaya,

P1.36 M. Zervos

Raman and NEXAFS study of the oxidation of Cu₃N thin films during their growth procedure

P1.37 K. Manousakis, K. Papadopoulos, G.K. Angeli, E. Loukopoulos, C. Tsangarakis, P.N. Trikalitis

A Highly Stable, Flexible Metal Organic Framework for Selective Sorption Applications

P1.38 A. Michail, K. Filintoglou, N. Balakeras, N.N. Lathiotakis, J. Parthenios, K. Papagelis

Strain induced frequency shifts of the second order Raman modes of monolayer WS₂

M.E. Nousia, S. Papadoniou Chatzis, B. Liontos, A. Mosxou, Ch. Kourti, A.X. Galani,

P1.39 A. Delaporta, A. Balerba, Ch. E. Lekka

Ab initio calculations on β Ti-based implant surfaces

C. Papamichail, C.C. Stoumpos

P1.40 *Thermochemical properties of hybrid two-dimensional lead halide perovskites based on bulky aromatic spacer cations*

Ceramics, composites, minerals and metals

M. Apostolopoulou, C. Floraki, K. Anagnostou, A. Kostopoulou, K. Brintakis, E. Stratakis,

P1.41 E. Kymakis, D. Vernardou

Si-Graphene Oxide Heterostructures as Anode Material in Li-air Energy Storage Devices: Effect of the Si Loading

A. Bouranta, I.V. Tudose, L. Georgescu, N.R. Vrithias, G. Kenanakis, E. Sfakaki, N. Mitrizakis,

P1.42 G. Strakantounas, N. Papandroulakis, C. Romanitan, C. Pachiou, O. Tutunaru, L. Barbu -Tudoran,

M.P. Sucheana, E. Koudoumas

3D printed composite materials with antifouling properties for aquaculture applications

C. Gioti, I. Villis, A. Karakassides, S. Gkiouzel, G. Asimakopoulos, Maria Baikous, C.E. Salmas,

P1.43 Z. Viskadourakis, G. Kenanakis, M.A. Karakassides

Carbon-red mud foam/paraffin hybrid materials for thermal energy storage and electromagnetic interference shielding applications

P1.44 S. Gkiouzel, K.C. Vasilopoulos, I. Kitsou, E. Roussi, E. Kagiara, A. Tsetsekou, S. Agathopoulos,

M.A. Karakassides

MgO-C refractories containing nanoadditives: the effect of graphite content and of use modified graphite with Fe and Si.

- P1.45** D. Katerinopoulou, E. Pervolarakis, Z. Łodziana, I.N. Remediakis, E. Iliopoulos
Study of the electronic transport mechanism in MnZn-Ni spinel oxides
- P1.46** M. Moschogiannaki, E. Gagaoudakis, G. Kiriakidis, V. Binas
Ultra-stable CoV₂O₆ hydrogen gas sensor, operating at room temperature
- P1.47** A.C. Patsidis, S. Gioti, A. Sanida, G.C. Manika, G.C. Psarras, G.N. Mathioudakis, Th. Speliotis
Probing the Multi-Functional Performance of Magnetic Nanoparticles/Epoxy Resin Hybrid Nanocomposites
- P1.48** S. Gioti, A. Sanida, G.C. Manika, A.C. Patsidis, G.C. Psarras, G.N. Mathioudakis, Th. Speliotis
Ceramic Inclusions/Epoxy Resin Hybrid Nanodielectrics: Development, Characterization and Multi-Functional Performance
- P1.49** A. Symvoulidou, G. Vekinis
Mechanical and thermal properties of spinel refractories mixed with blast furnace waste slag

Posters II – Tuesday

Photonics and optoelectronics

- P2.1** Ch. Aivalioti, E. Manidakis, Z. Viskadourakis, N.T. Pelekanos, C.C. Stoumpos, M. Modreanu, E. Aperathitis
Cation and Anion co-doping of NiO for enhancing the UV-PV performance of NiO/TiO₂ heterostructures
- P2.2** N.G. Chatzarakis, A. Kostopoulos, G. Konstantinidis, G. Deligeorgis, G. Raino, M. Bodnarchuk, M.V. Kovalenko, N.T. Pelekanos
Reduced Stark effect in CsPbBr₃ Perovskite Nanocrystals
- P2.3** A. Dagkli, A. Chatzilari, S. Doukas, E. Lidorikis
Electro-optic free-space ultrafast pulse-shaping in a graphene-loaded Bragg resonator
- P2.4** E.M. Darivianaki, M. Androulidaki, K. Tsagaraki, M. Kayambaki, G. Stavrinidis, G. Konstantinidis, E. Dimakis, N.T. Pelekanos, C.C. Stoumpos
Hybrid GaAs nanowire/halide perovskite optoelectronic devices
- P2.5** I. Demeridou, M. Mavrotsoupakis, L. Mouchliadis, P.G. Savvidis, E. Stratakis, G. Kioseoglou
High room temperature valley polarization in WS₂/Graphite
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