

POSTER SESSION 1

2 SEPTEMBER (15:00 - 15:30)

Chairs
Assoc.Prof.Dr. Doğan Kaya - Assoc.Prof.Dr. Ayşegül Dere

Poster No	Title
P01	<i>Thickness Dependent Optoelectronic and Interfacial Response of ETL Free and CdS Based AgBiS₂ Solar Cells</i> <u>A. Karaca</u> , D. Esra Yıldız
P02	<i>Passive Thermal Runaway Mitigation in UAV Battery Packs via FGM Cell Holders</i> <u>Resul Demir</u> , Rasiha Nefise Mutlu, Nedim Uğur Bakoğlu, Murat Aydın
P03	<i>Investigation of the Properties of Waste Mullite Powder Reinforced EPDM Composites</i> <u>M. Işın</u> , İ. Köprü, S.H Yetgin
P04	<i>Effects of Polyethylene Glycol (PEG) Additives with Different Molecular Weights on the Rheological and Physical Properties of EPDM Rubber</i> <u>S. Çiftçi</u> , İ. Köprü, F. Ulusal
P05	<i>Electrospun YBCO Superconductors: From Precursor Nanofibers to Functional Superconducting Structures</i> <u>A. Ekicibil</u> , V. Guckan, A.O. Ayas, F. Karadag, M. Akyol
P06	<i>Novel 1,4-Dihydropyridine Bioactive Scaffolds: Microwave-Assisted Synthesis and Evaluation of Dual α-Glucosidase Inhibitory and Antioxidant Activities</i> <u>A. Ayvaz Karaca</u> , Ö. Faiz, N. Demirbaş
P07	<i>Theoretical Analysis of CaF₂ Thin-Film Antireflectance Coatings on Sapphire in the 900–3000 nm</i> <u>Birsen Kesik Zeyrek</u> , Ahmed Medhat, E. Şenadım Tüzemen
P08	<i>Design-Structure-Performance Relationships in Polymer Matrix Hybrid Composite Bone Plates: A Critical Review</i> <u>E. Pesen</u> , C. Kaboğlu
P09	<i>Density Functional Theory Investigation of Adsorption Mechanisms and Electronic Properties on Pd-Co Surfaces</i> <u>Faruk Karadağ</u> , Çağatay Yalçın, Zafer Eroğlu, Onder Metin, Ruveyda Beyza Uğuz, Emre Can Tayfun, Ahmet Ekicibil, Dogan Kaya
P10	<i>Synthesis of a novel 1,4-anthraquinone derivative molecule, its use as a sensor material, and its effects on pro-inflammatory cell death</i> Kıymet Berkil Akar, Oguz Özbek, Caglar Berkel, <u>İsa Mert Eski</u> , Oguzhan Bebek, Onur Cem Altunoluk
P11	<i>First Report on the Green Synthesis of Silver Nanoparticles Using Magnolia Grandiflora Leaf Extract as a Sustainable Biogenic Reducing Agent</i> R. Sanayeva, E. Kasapoglu, <u>M.B. Yücel</u>
P12	<i>Machine Learning Informatics for Targeted Glioblastoma Photodynamic Therapy using optimized Yb/Er doped Upconversion Nanomaterials: A Multi-Photosensitizer Theranostic Framework</i> Syed Mujtaba ul Hassan , Rukan Genc Alturk

P13	<i>Surface characterization and electrochemical applications of chromium(III)–selective sensors based on a newly synthesized spironolactone derivative molecule</i> <u>Onur Cem Altunoluk</u>, Ali Aydin Kogu, Oguz Özbek, Meliha Burcu Gürdere
P14	<i>Ball-Milled Recycled PET/Slag and PET/Clinker Composite Materials: Synthesis, Characterization, and Dye Adsorption Performance</i> E. Buran, <u>S. Sismanoglu</u>
P15	<i>Growth and Optical Characterization of Sapphire/NiO/Ga₂O₃ and Sapphire/Ga₂O₃/NiO Heterostructures for Solar-Blind UV Photodetectors</i> <u>E. E. Bulut</u>, E. Şenadım Tüzemen
P16	<i>Optimization of Nitrogen-doped Ga₂O₃ Films Produced by Magnetron Sputtering Method</i> <u>E. Şenadım Tüzemen</u>
P17	<i>Solution Combustion Synthesis of Alkaline Earth Borate Phosphors for Dosimetric Applications</i> <u>N. Soydal</u>, Z.Yegingil, V.Altunal
P18	<i>Improving the Performance of PEO-Based Solid Electrolytes with Environmentally Friendly DOBHTP Plasticizer for Solid-State Lithium Batteries</i> <u>E. Yıldız</u>, A. Magasinski, W. Fu, G. Yushin
P19	<i>Effect of Magnetic Field on the Confinement Potential and Total Optical Absorption of a Symmetric Hyperbolic Quantum Well</i> Habibe Sayraç, <u>Fatih Ungan</u>
P20	<i>Numerical Analysis of p-Type Diffusion Depth on InGaAs/InP SPAD Characteristics Using Silvaco TCAD</i> R. Delvia, İ. Demir, <u>M. Köksal</u>

POSTER SESSION 2

3 SEPTEMBER (15:00 - 15:30)

Chairs

Assoc.Prof.Dr. Doğan Kaya - Assoc.Prof.Dr. Ayşegül Dere

Poster No	Title
P21	<i>Synthesis and Mesomorphic Characterization of a Novel Cholesteryl-Based Chalcone Liquid Crystal Mesogen</i> <u>B. Korkmaz</u>
P22	<i>Green Synthesis Method for Industrial Coffee Waste-Based Activated Carbon/Fe₃O₄ Nanocomposites and Their Applications in Waste Dye Adsorption</i> G. Karakuş, S. Bayyar, B. Gültekin, S. Baykul, M. Akbuz, <u>B. Korkmaz</u>
P23	<i>Effect of Silane-Modified Mullite and 2Si69 Coupling Agent on the Cure Characteristics, Mechanical Properties and Wear Performance of EPDM Composites</i> <u>M. Işın</u> , İ. Köprü, S.H Yetgin
P24	<i>Investigation of the Potential Use of Recycled Lithium-Ion Battery Powder as a Functional Filler in Chloroprene Rubber (CR) Composites</i> <u>S. Çiftçi</u> , İ. Köprü, F. Ulusal
P25	<i>The Effect of Adding Waste Slag on the Mechanical and Wear Behavior of EPDM/CaCO₃-Slag Composites</i> <u>A. Öteles</u> , İ. Köprü, S.H. Yetgin
P26	<i>Hydrogen-Bonded Cholesteryl Carbamate–Imidazole/Poly(styrene-co-maleic acid) Supramolecular Liquid Crystalline Polymer Complexes</i> Eda Küçük Aydın, Merve Ünal, Burak Korkmaz, Yeşim Hepuzer Gürsel, <u>Bahire Filiz Şenkal</u>
P27	<i>Effect of Silane-Treated and Untreated Micronized Glass Fiber on the Rheological, Mechanical, and Tribological Properties of EPDM/CaCO₃ Composites</i> <u>Çağrı Çokaçar</u> , İlker Köprü, Salih Hakan Yetgin
P28	<i>DFT and TD-DFT Investigation of the OLED Properties of a Triazole-Based Molecule</i> Z. Ş. Turhan, M. Beytur, <u>E Yıldız</u>
P29	<i>Luminescence Properties of Flourine and Phosphour Doped LiAlO₂ Ceramics Synthesized by Green Synthesis</i> <u>İ.S. Yener</u> , Z. Yegingil, V. Altunal
P30	<i>Optical and Catalytic Evaluation of Ni₂FeO₄ Nanoparticles for Efficient Dye Degradation and Water Oxidation</i> <u>Mehmet Eren Mercanlı</u> , Hasan Huseyin Isik, Dogan Kaya, Faruk Karadag, Ahmet Ekicibil
P31	<i>Re-modeling S-doped Li₃P for solid-state electrolyte in battery systems: stronger bonds and thermodynamic reinforcement via computationally guided simulation</i> <u>M.Özcan</u> , A. K. Havare, Z. Yeğingil
P32	<i>Systematic Investigation of Structural, Morphological, and Magnetic Properties in Doped Perovskite Manganite</i> <u>Y. Samancioğlu</u>

P33	<i>Melt-Spun Recycled Polyethylene terephthalate Multifilaments Containing Transition Metal Oxide for Multifunctional Applications</i> S. Özbakış Mısırlıoğlu, <u>P. Terzioğlu</u>
P34	<i>Rheological Behavior and Modulation of Biomineralization in Injectable Bioactive Glass Bone Grafts via Incorporation of a Therapeutic Agent</i> C. Özel, A.C. Özarslan, <u>S. Yücel</u>
P35	<i>Effect of Superlattice Period Number on the Structural, Optical, and Surface Properties of $\text{In}_{0.68}\text{Ga}_{0.32}\text{As}/\text{In}_{0.21}\text{Al}_{0.79}\text{As}$ Heterostructures</i> <u>Ferhan Kübra Özbakır</u> , İsmail Altuntaş, İlkay Demir
P36	<i>Optimization of AsH_3 Flow Rate for High-Quality MOCVD-Grown $n\text{-InGaAs}/\text{InP}$ Epitaxial Layers</i> <u>M. Alyosuf</u> , G. Yolcu, İ. Demir
P37	<i>Density Functional Theory Analysis of a Novel Naphthalene-Carboxylic-Acid Interfacial Material for Organic Photovoltaic Cells</i> <u>A.K. Havare</u> , M. Ozcan, Z. Yeğingil
P38	<i>Synthesis and Thermal Degradation Kinetics of 2,2,2-Trifluoroethyl Methacrylate/Ethyl Methacrylate-Based Copolymer/TiO_2 Nanocomposites</i> <u>G. Barim</u> , M. Kofteci Kotan, E. Barim
P39	<i>Epitaxial Growth of High-Indium Content InGaAs Layers via MOVPE for Extended-SWIR Applications</i> <u>İsmail Altuntaş</u> , Ferhan Kübra Özbakır, Merve Nur Koçak, İlkay Demir
P40	<i>Impact of ALD-Deposited ZnO Interlayer on the Dielectric Response and Electric Modulus of $\text{Al}/p\text{-Si}$ Junctions</i> <u>A. Karaca</u>