



Friday, May 16, 2025 (Poster Session 17:00-18:00)
Faculty of Technology Conference Hall

Poster No	Title and Authors
P - 1	Exploring Cd_xZn_{1-x}S Nanocomposites: Physical Properties and Synthesis via Sonochemical and SILAR Approaches <i>Gahramanli; L.R. *, Muradov M.B., Eyvazova G.M.</i>
P - 2	Polarization-based Optical Fiber Sensors for Electrical Current Measurement <i>Hasanlou M. *, Bayat A., Nouroozi R.</i>
P - 3	Examining the Thermal Characteristics of Solder Used Between the Heatsink and Substrate in High Power Fiber Coupled Laser Diodes and Investigating the Effects of Solder Characteristics on the Laser <i>Bulut GEZER, Dr. Muhitdin Ahmetoğlu</i>
P - 4	Printing High Reflectance Fiber Bragg Gratings on 30/400 Double-Clad Fibers for Fiber Laser System <i>Baran AY, Dr. Muhitdin Ahmetoğlu</i>
P - 5	Simulation of Interference Pattern Formed by Light Scattering from a Plasmonic Nanoparticle and a Dielectric Nanoparticle <i>Bakhtiari Haftlang F. *, Rezvani Jalal M., Mohebbi Far M.R.</i>
P - 6	Investigation of the Effect of Plasma Exposure Time on the Functionalization of Glass Substrates <i>Hosseini S. *, Shadafrooz H., Ahadi Akhlaghi E., Azizian-Kalandaragh Y.</i>
P - 7	The investigation of photosensitivity sensors based of the quaternary metal-oxide (ZnCdNiTiO₂) semiconductor structures <i>YILDIZ Kevser*, ALTINDAL YERİŞKİN Seçkin</i>
P - 8	The performed Au/n-Si (MS) structures with/without Mo:PVC interlayer, and investigation electric and negative dielectric properties of them <i>ÇAĞDAŞ Fahri Aydın, ALTINDAL YERİŞKİN Seçkin</i>
P - 9	Calibrating Nanometer Displacement with Fresnel Diffraction from Phase Step <i>Nozaripak E. *, Moghadam G., Bayat A.</i>
P - 10	Comparative Study of Photoluminescence in CdS Nanoparticles: Powder vs.Film Emission Profiles and Influencing Factors <i>Gahramanli L.R., Alakbarova S.S. *</i>
P - 11	Design of IR zoom lens system for longrange detection in cooled MWIR camera <i>Mahmut Çağlayan</i>
P - 12	Development Of a Paper-Based Nh₃ Gas Sensor Via Aerosol Jet Printing for Food Packaging Applications <i>Özdemir K.E. *, Dengiz K. *, Aydın M. *, Alpay R., Serbest B., Pashaei P., Akın Sönmez N.</i>
P - 13	Quantum Metrology on a Remote Network <i>Mustafa Mert Ozyılmaz, Merve Rumelli</i>



P - 14	Investigating Quantum Reservoir Computing for Time Series Forecasting <i>Merve Rumelli, Mustafa Mert Ozyılmaz</i>
P - 15	Microstructural and Characterization of $Al_xGa_{1-x}N/GaN$ Structures Using Williamson–Hall and Chemical Bond Techniques <i>Sariarslan O., Çatıkkaş B., Öztürk M.K.</i>
P - 16	Spectral analysis of alterations in pepper plant induced by Tomato brown rugose fruit virus using hyperspectral imaging <i>Golizadeh sh. *, Shokri M., Bayat A., Koolivand D.</i>
P - 17	Holographic simulation of point dipoles with a hologram recorded by an array detector <i>Bakhtiari Haftlang F., Rezvani Jalal M. *, Mohebbi Far M.R.</i>
P - 18	Simulation and computational validation of an optical cavity composed of point dipoles <i>Beyranvand G., Karami P., Rezvani Jalal M. *</i>
P - 19	Numerical Simulation of Thermal Lens process in Diethyl Ether and Ethanol and Analysis of Its Temperature Distribution Using FlexPDE Software <i>Karami P. *, Mohebbifar M. R., Souri D</i>
P - 20	Simulation of Thermal Lens Characteristic Time and Thermal Conductivity of C_2H_5OH, CH_3OH, and CCl_4 Using Finite Element Method <i>Karami P. *, Mohebbifar M. R., Souri D</i>
P - 21	Photoresponse and photosensitivity properties $Au/TiO_2/p-GaAs$ (MIS) diode <i>İrfan Ünal, Adem Tataroğlu</i>
P - 22	Detailed SEM Analysis of $Au/Ta_2O_5/Al$ Thin Films Fabricated by RF Sputtering for Reflective Color Filter Applications <i>Çekerek Y. *, İnan E.D., Hazer A., Dönmez Kaya M.</i>
P - 23	Alloy Nanoparticle Generation by Laser Ablation of Pure Metals <i>Korkmaz Z.E. *, Taylan U., Mutlay Z.G., Ortaç B.</i>
P - 24	ZnO Nanorod Arrays for High-Performance Photonic Devices: Synthesis, Characterization, and Applications <i>Senguler Y. G. *, Altat C.T., Karagoz E., Sankir N.D., Yildiz E., Elmali A., Karatay A.</i>
P - 25	Investigation of f/# and MTF Relationship of Double Gauss Design for Lightweight and Low Volume Objectives <i>R. İslam *, D. Anıl, Y. Azizian-Kalandaragh</i>
P - 26	Effect of Sn Doping on MoS_2 Thin Films for Photovoltaic Applications <i>Mert Tekmen*, Ayşe Çiçek, Dilara Nur Yücel, Naime Sude Börekci, Meltem Dönmez Kaya</i>
P - 27	SWIR 10x Continuous Zoom Lens Design <i>Mert Tekmen*, Devrim Anıl, Meltem Dönmez Kaya</i>



P - 28	Development of Flexible Temperature Sensors in Wearable Technology Using Aerosol Jet Printing Technique <i>Çağan G. *, Dönmez E.E., Sunar H., Serbest B., Alpay R., Ataşer T.</i>
P - 29	Simulation of Quantum Teleportation and Denial-of-Service (DoS) Attacks in Small-Scale Quantum Networks <i>TURAN O.S., ASAR T.</i>
P - 30	Development Of an Interference Microscope Using Diffuser and Polystyrene Materials <i>Bilge Ozkan*, Yashar Azizian Kalandaragh</i>
P - 31	Quantum Algorithms for Satellite Threat Detection <i>Eker S. K. *, Karataş M. E. *, Özçelik S.</i>
P - 32	Development and Characterization of CdS-Polymer Nanocomposites- Based Optical Filters and Semiconductor Materials via SILAR Method <i>Muhammet Enes Aydın*, Yashar Azizian Kalandaragh</i>
P - 33	Investigation Of the Corrosion Resistance Performance Of Moc Thin Film Coating for Pem Type Fuel Cells <i>Kesik Oğul Deha*, Ceylan Abdullah</i>
P - 34	Microwave-Assisted Synthesis of Nitrogen-Doped Carbon Dots from PET Waste for Photonic Applications <i>Acar H.S. *, Yeşil T., Diker H.</i>
P - 35	Effect of Resistivity and Structural Properties of Gallium-Doped CZ Silicon on Perc Solar Cell Performance <i>Ece Çamkara*, Nurhayat Yıldırım, Elif Toker, Ömer Bozkurt, Özlem Coşkun, Kaan Görgişen, Burcu Gümüş, Taner Türker, Meriç Çalışkan Arslan, Hilmi Ünal, Süleyman Özçelik</i>
P - 36	Synthesis and Characterization of Protective, Anti-Reflective Diamond-Like Carbon (DLC) Thin Films <i>Menevşe A.M. *, Ceylan A.</i>
P - 37	Development of a Ray-Tracing Software for Simulation and Analysis of Optical Systems <i>YENER N.N. *, YILDIRIM S. *, KARCI Ö., HATİPOĞLU İ.</i>
P - 38	Enhanced Refractive Index Metrology: Integrating Computational Fresnel Diffraction and Image Processing for Liquids and Thin Films <i>KARAKAYA G.C. *, AZIZIAN-KALANDARAGH Y</i>
P - 39	First-Principles and SCAPS-1D Analysis of TISnCl₃ for Photovoltaic Applications <i>Eren C. Coban, İrem A. Gemici, Yasemin O. Ciftci</i>
P - 40	The Optical and Electrochromic Properties of Indium Tin Oxide (ITO) Thin Films Deposited by RF Magnetron Sputtering <i>Tozlu H. *, Coşkun Ö.D., Cinali M.B.</i>
P - 41	Simulation of lattice circular Airy beams (LCAB) for spatiotemporal resolution enhancement in fluorescence microscopy imaging <i>Zahra Hajipoor*, Mostafa Aakhte, Ehsan A. Akhlaghi</i>



P - 42	Investigation of the Effect of Plasma Exposure Time on the Functionalization of Glass Substrates <i>Hosseini S. *, Shadafrooz H., Ahadi Akhlaghi E., Azizian-Kalandaragh Y.</i>
P - 43	Morphological and Conductive Optimization of Silver Nanofibers Produced by Electrospinning <i>Merve Çorak*, Furkan Bayraktar, Zeynep Aslı Alan, Yusuf Taha Yener, Furkan Tuncer, Süleyman Özçelik</i>
P - 44	Electrospun SiO₂/TiO₂-Based Dielectric Nanofibers for Optical Enhancement of Glass Surfaces <i>Merve ÇORAK*, Süleyman ÖZÇELİK, Muzaffer Balbaşı</i>
P - 45	Determination of Responsivity of NiO Photodetector Structures <i>Demirbas E.B. *, Ocut B.S., Dicle C.A., Ayaglar M., Efkeri H.I., Ozen Y., Aydın S.S.</i>
P - 46	Hybrid ASE Light Source Design: Impact of Erbium-Doped Fiber Length on Spectral and Thermal Stability for IFOG Applications <i>Bozkuş N.B. *, Alaçakır Demir, E., Civan, M., Pavlov, I.</i>
P - 47	Morphology-Controlled Plasmonic Coloring of Ag and Au Thin Films on Glass Substrates <i>Yazıcıoğlu N. *, Öztürk H. A., Bayram Y. Akın Sönmez N., Özçelik S.</i>
P - 48	Substrate-dependent Investigation of CuI/Cs₃Sb₂I₉/Nb₂O₅/AgNW Structures for the Development of Lead-Free Perovskite Solar Cells <i>Yıldırım S. *, Yazıcıoğlu N., Alpay, R., Serbest, B. Kara, S.G., Akın Sönmez N.</i>
P - 49	Design and Development of Modular Black Body Source for Infrared Calibration Systems <i>Başak NACAR*, Süleyman ÖZÇELİK</i>
P - 50	Simulation of x-ray diffraction from titanium quantum dots <i>Kazemi Z., Souri D. *, Rezvani Jalal M.</i>
P - 51	Scattering of light from $\chi^{(2)}$ active sphere and simulation of angular distribution of second harmonic <i>Pouladkhay, E., Torkashvand, M., Rezvani Jalal, M. *</i>