Friday, May 17, 2024							
Address: 75. Yıl Conference Hall, Faculty of Science, Gazi University							
Session 1							
Chair: Prof. Alpan Bek							
Middle East Technical University, Türkiye							
09:00 – 09:50	9 – 09:50 Plenary Speaker / Prof. Tayfun AKIN Middle East Technical University, Türkiye Title of talk: Evaluation of Infrared Detector and ROIC Development Activities in Türkiye						
09:50 - 10:00		Short Break					
	HALL 1	HALL 2	HALL 3				
	Chair: Prof. Alpan Bek	Chair: Dr. Daryoush Abdollahpour	Chair: Prof. Arash Sabatyan				
	Middle East Technical University, Türkiye	Department of Physics, Institute for Advanced Studies in Basic Sciences (IASBS), Zanjan, Iran	Urmia University, Iran				
10:00 – 10:30	Invited Speaker / Prof. Benedetta Marmiroli	Invited Speaker / Prof. Abdollah Borhanifar	Invited Speaker / Dr. Zeynep Demircioğlu				
	Graz University of Technology, Graz, Austria Title of talk: Deep X-ray Lithography for Optics and Photonics	University of Mohaghegh Ardabili (UMA), Iran Title of talk: Interaction and efficiency of three optical pulses in optical fiber	Tübitak, SAGE Title of talk: Production and characterization of amorphous Silicon thin film solar cells on flexible substrates				
10:30 – 11:00	Invited Speaker / Prof. Alina Manshina Institute of Chemistry, St. Petersburg state university, Russia	Invited Speaker / Dr. Berna Morova Istanbul Technical University	Invited Speaker / Dr. Nesrin Töre Şen Kalyon PV, Türkiye				
	Title of talk: How to make optical and electrochemical sensors with laser	Title of talk: Tailored Light Beams: An Innovative Approach in Micromachining	Title of talk: Technological roadmap of KalyonPV R&D Center				
11:00 – 11:20	11:00 – 11:20 Coffee Break						
11:20 – 11:40	Speaker / Barbara Sartori	Speaker / Sabreen A. Hameed	Speaker / Buğra Yalçın				
	Graz University of Technology, Institute of Inorganic Chemistry Title of talk: Synchrotron Radiation for Structural Biology	Department of Physics, College of Science, University of Diyala, Diyala, Iraq Title of talk: Intersection behavior in the forward bias I-V curves and current	Nanotechnology Research Center, Bilkent University Title of talk: Raman OTDR Based Distributed Temperature Sensing for				
	, and a summary	transport mechanisms (CTMs) in the Al/Al2O3/Ge/p-Si heterostructures in temperature range of 90-420 K	Environmental and Structural Monitoring				
11:40 – 12:00	Speaker / Erkut Emin AKBAŞ	Speaker / Mina Mollaei	Speaker / Behnaz Javidi				
	Gazi University, Ankara, Türkiye Title of talk: Design Of All-Fiber Er-Doped Ase Source For Fiber Optic Sensors	Department of Physics, Institute for Advanced Studies in Basic Science (IASBS), Zanjan, Iran Title of talk: Optimization of photolithography exposure by Lensletlens	Physics Department, Urmia University, Urmia, Iran Title of talk: Impact of Astigmatism on diffractive features of spiral checkerboard zone plate				
12:00 - 12:20	Speaker / Uğur Özçelik	Speaker / Mohammad Khanjani	Speaker / Maryam Fatehi				
	Gazi University, Ankara, Türkiye Title of talk: The investigation of frequency dependent electrical	Department of Physics, Institute for Advanced Studies in Basic Science (IASBS), Zanjan, Iran Title of talk: Improving Illumination and Enhancing the Accuracy of White Light	University of Urmia - Faculty of Science - Optics & Laser Group Title of talk: Innovative Optical Beam Shaping with One-Dimensional Fresnel-				
	parameters and density distribution of interface-traps (Dit) of the	Interferometry Using Array Lenses	Zone Plates: Novel Complex Structures				
	Au/(ZnO:CeO2:PVP)/n-Si (MPS) Schottky diodes (SDs) by utilizing impedance spectroscopy model in the frequency range of 2kHz-						
	1MHz						

Lunch Break

12:20 – 13:30

		<u>Session 2</u> Chair: Prof. Luis L. Sánchez-Soto				
		Faculty of Physics, Complutense University of Madrid, Spain				
13:30 – 14:20	Plenary Speaker / Prof. Gerd Leuchs	, , ,				
	Max Planck Institute, Germany Title of talk: Improving the sensitivity of an interferometer	r hevand shot naise using Kerr squeezed light				
Title of talk: Improving the sensitivity of an interferometer beyond shot noise using Kerr squeezed light 14:20 – 14:30 Short Break						
	HALL 1	HALL 2	HALL 3			
	Chair: Prof. Luis L. Sánchez-Soto Ity of Physics, Complutense University of Madrid, Spain	Chair: Dr. Sumea Klokic Ceric-Eric, Trieste, Italy	Chair: Dr. Nihan Akın Sönmez Department of Photonics, Faculty of Applied Sciences, Gazi University, Ankara, Türkiye			
14:30 – 15:00	Invited Speaker / Prof. Saifollah Rasouli Department of Physics, Institute for Advanced Studies in Basic Sciences (IASBS), Zanjan, Iran Title of talk: Diffraction from periodic structures, Talbot effect, and beam shaping	Invited Speaker / Dr. Ehsan Ahadi-Akhlaghi Department of Physics, Institute for Advanced Studies in Basic Sciences (IASBS), Zanjan, Iran Title of talk: Optical Metrology: 3D imaging	Invited Speaker / Prof. Şemsettin Altındal Gazi University, Ankara, Türkiye Title of talk: The investigation of basic current transportation mechanisms and energy dependence profiles of interface traps(NSS) and relaxation times of the Au/n-Si structures with (PVA-Fe3O4) interlayer			
15:00 – 15:20	Speaker / Mozhgan Hashemi Department of Physics, Institute for Advanced Studies in Basic Science (IASBS), Zanjan, Iran Title of talk: Polarimetric Analysis of Whitefly Larvae on Pomegranate Leaves via Mueller Matrix Imaging	Speaker / Sina Zeynali Department of Physics, Institute for Advanced Studies in Basic Science (IASBS), Zanjan, Iran Title of talk: SPR simulation of exosome with different drugs	Speaker / Parisa Pashaei Gazi University, Ankara, Türkiye Title of talk: Flexible Interdigital Ag Electrode Fabrication for UV-photodetectors: A Comparative Study of Aerosol Jet Printing and Thermal Evaporation Methods			
15:20 – 15:40	Speaker / Mahkame Abolfathi Department of Physics, Institute for Advanced Studies in Basic Science (IASBS), Zanjan, Iran Title of talk: Using the highly sensitive surface plasmon resonance sensors to accurately determine organic dyes and some inorganic minerals in water	Speaker / Alireza Shafiei Department of Physics, Institute for Advanced Studies in Basic Science (IASBS), Zanjan, Iran Title of talk: Investigation of SPR in single-layer and double-layer systems of silver nanoparticles infiltrated by EAFD method in soda-lime glasses	Speaker / Mohammad Reza Ataii Department of Physics, Institute for Advanced Studies in Basic Science (IASBS), Zanjan, Iran Title of talk: Periodic SPR Nano-Sensors in Form of a 6-Point Shuriken			
15:40 – 16:00	Speaker / Sinan Genç Middle East Technical University Title of talk: Using optical interference and machine learning to categorize microbeads in water	Speaker / Zahra Akbarpour Institute for Advanced Studies in Basic Sciences (IASBS) Title of talk: Investigating the Mechanical Properties of Biological Cells using Dualbeam Optical Tweezers	Speaker / Abdulkadir Yentur TOBB University of Economics and Technology Title of talk: SOA-based broadband light source relative intensity noise suppression			
16:00 – 17:00		Coffee Break and Poster Presentations				

Session 3

HALL 1		HALL 2 Chair: Dr. İsa Hatipoğlu Department of Photonics, Faculty of Applied Sciences, Gazi University, Ankara, Türkiye	HALL 3 Chair: Dr. Barbara Sartori Graz University of Technology, Institute of Inorganic Chemistry
Chair: Prof. Hamidreza Khalesifard Department of Physics, Institute for Advanced Studies in Basic Sciences (IASBS), Zanjan, Iran			
17:00 – 17:30	Invited Speaker / Prof. Alpan Bek Middle East Technical University, Türkiye Title of talk: Environmental Photonics: From ultrafast IR laser material processing to trace molecule detection	Invited Speaker / Dr. Sumea Klokic Ceric-Eric, Trieste, Italy Title of talk: Structural dynamics in photo-responsive crystalline film systems: a multi-technique approach	Invited Speaker / Dr. Sevilay Sevinçli Department of Photonics, İzmir Institute of Technology, Türkiye Title of talk: Ultra-cold Rydberg Atoms and Quantum Technologies
17:30 – 17:50	Speaker / Ferhat Hanife Gazi University, Photonics Application and Research Center Title of talk: Utilizing Interference Microscopy to Determine Micro- Sized Objects	Speaker / Narges Rezaei Department of Physics, Institute for Advanced Studies in Basic Science (IASBS), Zanjan, Iran Title of talk: Fabrication and Calibration a Spectral -Domain Optical Coherence Tomography in Infrared range	Speaker / Utku TOPCU Gazi University, Photonics Application and Research Center Title of talk: Fabrication of Different Patterns of Diffraction Grating with Aerosol Jet Printing System
17:50 – 18:10	Speaker / Zahra Ashuri Department of Physics, Institute for Advanced Studies in Basic Science (IASBS), Zanjan, Iran Title of talk: Cancer biomarker detection by surface plasmon resonance(SPR)	Speaker / Sara Aminian Department of Physics, Institute for Advanced Studies in Basic Science (IASBS), Zanjan, Iran Title of talk: Refractometry based on reflection phase step spectroscopy	Speaker / Mahammad Baghir Baghirov Baku State University Title of talk: Study of optical properties of asymmetric AgNWs/PVA/Ag2S nanocomposites by vapor phase sulfidation process
18:10 – 18:30	Speaker / Ömer Faruk Ding Nanotechnology Research Center, Bilkent University Title of talk: Pulse Distortion Optimization Caused by EDFA Transient Effect	Speaker / Sharareh Jalali Umia University Title of talk: Exploring Novel Techniques for Optical Vortex Beam Generation and Detection Using Mach-Zehnder Interferometer and Spiral Zone Plate	Speaker / Fateme Gheibi Department of Physics, Institute for Advanced Studies in Basic Science (IASBS), Zanjan, Iran Title of talk: White light spectroscopy of the structured surface plasmon resonance biosensors
18:30 – 18:50	Speaker / Yiğit Levent Çeçen Department of Photonics, Gazi University Graduate School of Natural and Applied Sciences Title of talk: Investigation of Quantum Confinement Effects in Cadmium Sulfide Polymer Nanocomposites and Their Role in Optoelectronic Device Applications	Speaker / Sima Hosseini Department of Physics, Institute for Advanced Studies in Basic Science (IASBS), Zanjan, Iran Title of talk: Surface Topography Measurement through Fringe Visibility Analysis	Speaker / Lamiya Balayeva Baku State University Title of talk: Determination of conductivity in Ga0.95B0.05Se crystal in the dark and under the influence of light