Poster Presentations
14th International Symposium on Modern Optics and Its Applications (ISMOA) 2023

Poster Presentation 01: Fabrication and application of thin film lithium niobate microdisk based on focused ion beam direct writing
Xiaona YE (State Key Laboratory of Advanced Optical Communication Systems and Networks, School of Physics and Astronomy, Shanghai Jiao Tong University, China)

Poster Presentation 02: Application of Rice Husk as a Carbon Source for Substitution of Sensitizer and Counter Electrode Components in Dye-Sensitized Solar Cell
Tika PARAMITHA (Department of Chemical Engineering and Centre of Excellence for Electrical Energy Storage Technology, Sebelas Maret University, Indonesia)

Poster Presentation 03: Investigation of Nickel Oxide/Perovskite Interfacial for Inverted Perovskite Solar Cell with MAPbI3 as the Absorber Layer
Ahmad Muhajer A. AZIZ (Faculty of Electronic and Computer Engineering, Universiti Teknikal Malaysia Melaka (UTeM), Malaysia)

Poster Presentation 04: Investigation of Zinc Cobaltite (ZnCO2O4) as A Hole Transport Layer (HTL) for Perovskite Solar Cell using OghmaNano Software
Iskandar D. RUMMAJA (Physics of Magnetism and Photonics Research Division, Faculty of Mathematics and Natural Sciences, Institut Teknologi Bandung, Bandung, Indonesia)

Poster Presentation 05: Preparation of GO/RGO/TiO2 Composite Films as Counter Electrode in Dye Synthesis Solar Cells
Fauziah Siti AJIZAH (Institut Teknologi Bandung, Indonesia)

Poster Presentation 06: A Brief Study of ZnO/PEDOT:PSS Counter Electrode in DSSC Based on Solid Electrolyte YSZ
Anissa Chairani Alfin NADHIRA (Department of Physics, Faculty of Mathematics and Natural Sciences, Universitas Negeri Malang, Indonesia)

Poster Presentation 07: Visible Light trapping in dye-sensitized solar cell with Vanadium-doped ZnO as back reflector layer
Lia YULIANTINI (Research Centre for Electronics, National Research and Innovation Agency Republic of Indonesia (BRIN), Indonesia)

Poster Presentation 08:  *Enhancement Efficiency of ZnO-based Dye-Sensitized Solar Cell using TiO2:ZnO Composite as Photoanode Layer*

Euis Siti NURAZIZAH (Department of Physics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran)

Poster Presentation 09:  *Detection of Envelope Glycoprotein Domain III (EDIII) Based on Surface-Enhanced Raman Scattering for Dengue Diagnosis*

Aldo Novaznursyah COSTRADA (Research Group of Instrumentation & Computational Physics, Bandung Institute of Technology, Indonesia)

Poster Presentation 10:  *Fabrication of Low-Cost SERS Substrate for Explosives Detection*

Syifa H. TSANIYA (Instrumentation and Computational Physics, Institut Teknologi Bandung, Indonesia)

Poster Presentation 11:  *Classification of Animal Fats Using Principal Component Analysis on Raman Spectra Data for Halal Authentication*

Annida AMANI (Faculty of Mathematics and Natural Sciences, Institut Teknologi Bandung, Indonesia)

Poster Presentation 12:  *Nb2CTx Niobium-Based MXenes as a Saturable Absorber for Passively Generating Q-Switched Fiber Laser at 2 µm*

LIP Zhan Hong (School of Engineering, UOW Malaysia KDU University College, Malaysia)

Poster Presentation 13:  *Numerical Study of the Early Detection of Tuberculosis with High Sensitivity Plasmonic Sensor*

Khaikal RAMADHAN (Department of Physics, Faculty of Mathematics and Natural Sciences, Institut Teknologi Bandung, Indonesia)

Poster Presentation 14:  *Surface Plasmon Resonance of Green Synthesized Fe3O4/rGO Composite Nanoparticles for Biosensor Application*

Muthia Fauzia MAULIDA (Department of Physics, Universitas Gadjah Mada, Yogyakarta, Indonesia)
Poster Presentation 15: **Tuning Optical Properties of Au Thin Film Using Electric Field for Surface Plasmon Resonance-based Biosensor**
Muhammad RISWAN (Department of Physics, Universitas Gadjah Mada, Yogyakarta, Indonesia)

Poster Presentation 16: **On SPR-based configurations for Strong Coupling Observation: Kretschmann vs Otto**
Muhammad Asif Ahmad KHUSHAINI (Institute of Microengineering and Nanoelectronics, Universiti Kebangsaan Malaysia, Malaysia.)

Poster Presentation 17: **Localized Surface Plasmon Resonance Effect of 3-Mercaptopropionic capped on Silver Nanoparticles for Sensing Probe Application**
Setiya RAHYAU (Physics of Magnetism and Photonics Research Division, Bandung Institute of Technology, Indonesia.)

Poster Presentation 18: **Development of ZnO-Based Optical Sensor for Profenofos Detection**
Natasya SALSABIILA (Faculty of Electrical and Electronic Engineering, Universiti Tun Hussein Onn Malaysia, Malaysia)

Poster Presentation 19: **Synthesis of Gold Nanoclusters Stabilized by Human Serum Albumin and Its Application as Glucose Detection**
Boy Marsaputra PANJAITAN (Research Center for Advanced Materials, National Research and Innovation Agency (BRIN), Indonesia)

Poster Presentation 20: **Effect of Polyaniline Concentration on TiO2 Synthesis for Cork Ball Photocatalytic Application in Degrading River Water under UV Light**
Annisa Miftakhul JANNAH (Department of Physics, Faculty of Mathematics and Natural Sciences, Universitas Negeri Malang, Malang, Indonesia)

Rizal Ahmad FAUZI (Department of Physics, Faculty of Science and Technology, UIN Sunan Gunung Djati, Bandung, Indonesia)

Poster Presentation 22: **Charge Transport Properties of Single Crystal Perovskite Synthesized by Antisolvent Vapor-Assisted Crystallization (AVC)**
Ayi BAHTIAR (Department of Physics, Universitas Padjadjaran, Indonesia)
Poster Presentation 23: Optical Properties of Carbon Dots Synthesized from Seaweeds by Facile Microwave-assisted Techniques
Muhandis SHIDDIQ (Research Center for Photonics, National Research and Innovation Agency (BRIN), Indonesia)

Poster Presentation 24: Spray Coated of ZnO particles on ePA Nylon-Carbon Fiber Substrate and Evaluation of its Photocatalytic Activity
Muhammad Fahmi HASYIM (Physics Study Programee, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia)

Amalia Rohmah FAJARIAH (Department of Physics, Universitas Padjadjaran, Indonesia)

Poster Presentation 26: Comparative Study of Photocatalytic Performance between TiO2/ZnO Film and TiO2/ZnO Particulate
Inovasari ISLAMI (Magister Physics Study Programme, Universitas Padjadjaran, Indonesia)

Poster Presentation 27: Effect of rGO/TiO2 Composition on Optical Properties of Methylene Blue and Its Degradation under UV Irradiation
Tri Komala JUNITA (Department of Physics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, West Java, Indonesia)

Poster Presentation 28: Electrodeposition of Zn-Doped Cu 2 O-Cu/Ni and Its Application for Methylene Blue Photodegradation
Mega Gladiani SUTRISNO (The Centre for Science Innovation, Department of Chemistry, Faculty of Mathematics and Natural Sciences, Universitas Negeri Jakarta, Indonesia)

Poster Presentation 29: Scattering Characteristics of Nanoparticle Chain and Cluster
Deni RAMDANI (Physics of Magnetism and Photonics Research Division, Faculty of Mathematics and Natural Sciences, Institut Teknologi Bandung, Indonesia)

Poster Presentation 30: Optimization of Semiconductor-Based SRR Metamaterials as Sensors
Yan SOERBAKTI (Department of Physics, Universitas Riau, Indonesia)
Poster Presentation 31: Low-index Dielectric Meta-lattices with Tunable Narrow Resonance
Suhandoko D. ISRO (Physics of Magnetism and Photonics Research Division, Faculty of Mathematics and Natural Sciences, Institut Teknologi Bandung, Indonesia)

Poster Presentation 32: Probing Optical Properties of a Λ-Type Three-Level System Quantum Dot: Theoretical Study
Bintoro S. NUGROHO (Physics Department, Universitas Tanjungpura, Indonesia)

Poster Presentation 33: First-principle investigation of doped ZnO and its effect to the U-dependent optical and electronic properties
Salwa Anindhita KHANSA (Department of Chemical Engineering, UPN “Veteran” Yogyakarta, Indonesia)

Poster Presentation 34: Optical properties of three phases of beryllia as calculated by DFT method with three different functionals
Qoriana ZULINDRA (Department of Chemical Engineering, UPN “Veteran” Yogyakarta, Indonesia)

Poster Presentation 35: Anisotropic Optical Properties of Bilayer Rhenium Disulfide (ReS2) from First-principles Calculations
Finantius RAHANGIAR (Departement of Physics, Gadjah Mada University, Indonesia)

Poster Presentation 36: Suppressing the Self-Reversal Effect on the Resonance Lines of Various Elements in UV Laser-Induced Breakdown Spectroscopy using Air Spark-Assisted Excitation
Marvin Yonathan HADIYANTO (Department of Electrical Engineering, Krida Wacana Christian University, Indonesia)

Poster Presentation 37: Characteristics of Li I 610.4 nm emission line in laser-induced plasma at reduced pressure
Ivan TANRA (Department of Electrical Engineering, Krida Wacana Christian University, Indonesia)

Poster Presentation 38: Laser-Induced Periodic Nanoripples on Gallium Nitride Using Near-infrared Ultrashort Pulsed Laser
Nursidik YULIANTO (Research Center for Photonics, National Research and Innovation Agency (BRIN), Indonesia)

Poster Presentation 39: Fast Fabrication of Superhydrophobic Copper Alloy Fabricated by Commercial Fiber Laser-1062 nm and Stability of Superhydrophobic 
M. B. HARYONO (School of Materials Science and Innovation, Faculty of Science, Mahidol University, Thailand)

Poster Presentation 40: Multi-wavelength Brillouin Erbium Fiber Laser 
Hasanain Naser A. ALI (Department of Electrical, Electronic and Systems Engineering, Faculty of Engineering and Built Environment, Universiti Kebangsaan Malaysia, Malaysia)

Poster Presentation 41: Q-Switched Erbium-Doped Fiber Laser with Titanium Silicon Carbide-Based Saturable Absorber 
Nurul Athirah M. A. GHAFAR (School of Electrical Engineering, College of Engineering, Universiti Teknologi MARA, Malaysia)

Poster Presentation 42: Q-Switched Erbium-Doped Fiber Lasers with Aluminium (III) Oxide Based Saturable Absorber 
Nur Farhanah ZULKIPLI (Department of Engineering and Built Environment, Tunku Abdul Rahman University of Management and Technology Penang Branch, Malaysia)

Poster Presentation 43: Q-switched Pulse Generation with Molybdenum Disulfide Saturable Absorber 
Rosmalini Ab KADIR (School of Electrical Engineering, College of Engineering, Universiti Teknologi MARA, Malaysia)

Poster Presentation 44: Q-switched Erbium Ytterbium co-doped Fiber Using Multimode Interference Effect 
Mingzhi CHI (Department of Electrical Engineering, University of Malaya, Malaysia)

Poster Presentation 45: Q-Switched Fiber Laser Generation with Molybdenum Titanium Aluminum Carbide (Mo2TiAlC2) Film as Saturable Absorber 
Anas A. LATIFF (Photonics Engineering Research Group (PERG), Fakulti Kejuruteraan Elektronik dan Kejuruteraan Komputer (FKEKK), Universiti Teknikal Malaysia Melaka (UTeM), Malaysia)
Poster Presentation 46: Electrical current sensor based on optical fiber on magnetic fluid (OFMF)
Siti N. Mohd ASSERI (Department of Physics, International Islamic University Malaysia, Malaysia)

Poster Presentation 47: D-shaped Fiber Optic Biosensor for Peptide Concentration Detection
Siti Nurul F. AZAHAN (IIUM Photonics and Quantum Centre (iPQC), Kulliyyah of Science, International Islamic University Malaysia, Malaysia)

Poster Presentation 48: Improved Sensitivity of Vaporized Acetone Gas Sensing using ZnO Nanorod Coated with TiO2 on A Multimode Fiber
Norazlina SAIDIN (Department of Electrical and Computer Engineering, International Islamic University Malaysia, Malaysia)

Poster Presentation 49: Microfiber Ring Resonator for Optical Liquid Sensing
Yaoxian YANG (Department of Electrical Engineering, University of Malaya, Malaysia)

Poster Presentation 50: Soliton Pulse Generation with MoS2 Saturable Absorber
Nurul Izzah S. WADI (School of Electrical Engineering, College of Engineering, Universiti Teknologi MARA, Malaysia)