



# 25TH SYMPOSIUM ON PHOTONICS AND OPTICS SPO 2024

## Friday, November 8, 2024

### Poster Session - Room 103 (4:00 PM - 5:25 PM)

time	[id] title	presenter
4:00 PM	[7] Recovery of germanium optical elements for infrared technique devices	Dr MALANYCH, Galyna Prof. PEKAR, Grygoriy
4:03 PM	[58] Tetragonal scheelite structure and bright luminescence of NaBi(MoO <sub>4</sub> ) <sub>2</sub> doped with europium(III) Single Crystals	Mrs POPOVYCH, Anastasiia
4:06 PM	[15] Creation of nano-objects for nanoelectronics and spintronics	MELNICHENKO, Mykola
4:09 PM	[80] Intermolecular interaction of (CH <sub>3</sub> ) <sub>2</sub> CO•••HCl complex: IR spectra, DFT method, QTAIM, NCI, RDG, ELF, LOL, FMO analyses.	Ms NURMURODOVA, Gulshan
4:12 PM	[46] Modification of Borophosphate Glass Composition for Joint Thermal Processing with Molybdenum Oxide for Development of Solar Cell Coatings	Mrs SAIENKO, Liliia
4:15 PM	[25] Spectroscopic study of ibuprofen interaction with polyethylene glycol matrix	RUDENOK, Tetiana
4:18 PM	[42] Dynamical Diffraction Model for Analyzer-Based Imaging	Dr LIZUNOV, Vyacheslav
4:21 PM	[45] Effect of MoO <sub>3</sub> Content on Structural, Thermal and Luminescent Properties of Potassium Phosphomolybdate Glasses	Mr VOINALOVYCH, Artem
4:24 PM	[48] Fractal Resonators for Use in a Microwave Kinetic Inductance Detector	Dr KALENYUK, O.A.
4:27 PM	[72] Green body composition for layered ceramic composites	Mr KLENIN, Mykola
4:30 PM	[74] Optical Band Gap Tuning in Mixed B-site and X-site Aziridinium Perovskites	PETROSOVA, Hanna
4:33 PM	[79] Spontaneous and stimulated UV laser-induced excitonic luminescence from ZnO nanopowder	Dr IZMAILOV, Igor
4:36 PM	[83] Optical Properties of Luminescent Centers in Bi-Doped Glass-Ceramics: A TD-DFT Study	BORYSIUK, Viktor
4:39 PM	[88] Isotope effects on the IR spectrum of the CX <sub>3</sub> Y•••HCl complex in liquefied argon: DFT calculations, topological analyses, and electronic properties	Mr KHUJAMOV, Utkir
4:42 PM	[95] Electronic structures and optical properties of different phases of polyvinylidene fluoride (PVDF) crystals	BARANCHICOV, Zahar
4:45 PM	[122] IMPEDANCE SPECTROSCOPY OF GeSn/Ge/Si STRUCTURES AT DIFFERENT TEMPERATURES	KONDRATENKO, Serhiy
4:48 PM	[21] Characterization of novel solar energy converters based on meta-heuristic algorithms	Prof. OLIKH, Oleg
4:51 PM	[6] Nonlinear Spatial Frequency Chirping Of Quadruple Gaussian Laser Beams Interacting with Narrowband Gap Semiconductors: Effect of Self Focusing	MALIK, Nishu
4:55 PM	[44] Structural and spectroscopic insights into Sodium-Europium(III) orthophosphate	Mrs NESMIAN, Kateryna

4:58 PM	[10] Gouy Phase Shift of Bessel Gauss Laser Beams in Plasmas with Axial Temperature Ramp: Effect of Self Focusing	BRAR, Rajnoor Singh
5:01 PM	[22] Molten salt synthesis of Bi <sub>2</sub> WO <sub>6</sub> :Eu	Dr TEREBILENKO, Kateryna Mr ORIEKHOV, Stanislav
5:04 PM	[30] Fluorescence spectra of Ukrainian beers: machine learning exploratory study	DANILIUK, Dmytro
5:07 PM	[31] The theory of structure formation of electron-hole liquid in dichalcogenides under optical pumping	Dr CHERNYUK, Andriy
5:10 PM	[38] Optimization of Cd <sub>x</sub> TeyO <sub>z</sub> Nanocomposite Film Synthesis via the SILAR Method for Controlled Structural and Phase Properties	Mr POPOV, Anatoli
5:13 PM	[57] The Role of GeO <sub>2</sub> in the Glass-Ceramic Formation and Microstructure of Sodium Phosphate-Molybdate Glasses	Mr PASHYNSKYI, Yehor
5:16 PM	[63] Study of noncovalent interactions in various solutions of thiophene-2-carboxylic acid	KHUDAYKULOV, Bekzod
5:19 PM	[75] QUANTUM CHEMICAL CALCULATIONS OF CHEMICAL BOND DEVIATION IN CLO <sub>2</sub>	FURMAK, Illia
5:22 PM	[109] Optical thermometry: fluorescence of rear-earth ions in aluminum nitride thin films	KRAVCHENKO, Vladyslav