

25TH SYMPOSIUM ON PHOTONICS AND OPTICS SPO 2024

Tuesday, November 5, 2024

Workshop on Sustainable Materials and Technologies: Opening - Room 103 (8:05 AM - 8:15 AM)

-Conveners: Volodymyr Dzhagan; Serhiy Kondratenko

Workshop on Sustainable Materials and Technologies: Plenary Session - Room 103 (8:15 AM - 8:55 AM)

-Conveners: Serhiy Kondratenko

time	[id] title	presenter
8:15 AM	[103] Challenges to Carbon Neutrality	Prof. YOSHIDA, Tsukasa

Workshop on Sustainable Materials and Technologies: Emerging Trends in Perovskite Science and Technology 1 - Room 103 (9:00 AM - 10:45 AM)

-Conveners: Volodymyr Dzhagan

time	[id] title	presenter
9:00 AM	[96] Optoelectronic Applications of Metal Halide Perovskites	Dr YAKUNIN, Sergii
9:30 AM	[114] High-throughput compositional screening of new sustainable (green) perovskite materials for energy conversion (light harvesting and emission)	Dr STROYUK, Oleksandr
10:00 AM	[123] Tuneable Excitonic Luminescence in 2D hybrid perovskites	Mr SHCHERBAKOV, Andrii
10:15 AM	[70] 3D semiconducting hybrid perovskites with aziridinium cation	Dr GURAL'SKIY, Il'ya
10:30 AM	[71] Chiral 2D hybrid perovskites with amino acid cations	Ms KUCHERIV, Olesia I.

Workshop on Sustainable Materials and Technologies: Emerging Trends in Perovskite Science and Technology 2 - Room 103 (11:00 AM - 12:10 PM)

-Conveners: Sergii Golovynskyi

time	[id] title	presenter
11:00 AM	[127] Perovskite-based electrode materials for solid oxide fuel cells	Dr KOLKOVSKYI, Pavlo
11:20 AM	[125] Low dimensional perovskites for quantum optics and polaritonics	Dr MUNOZ MATUTANO, Guillermo
11:40 AM	[131] Spectral stability of CsPbX ₃ (Br, I) perovskite nanocrystal for single photon emission	Dr GORJI, Setatira
11:55 AM	[37] First-principles calculations to investigate the optical properties of ASnO ₃ (A = Ba, Ca, Sr, and Mg) perovskite oxides for the optoelectronic applications	ELALAOUI, YOUNES

Workshop on Sustainable Materials and Technologies: Frontiers in MoS₂ and Two-Dimensional Materials - Room 103 (12:40 PM - 2:30 PM)

-Conveners: Serhiy Kondratenko

time	[id] title	presenter
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12:40 PM	[11] 2-dimensional MoS ₂ for photonic applications	Dr SERAVALLI, Luca
1:00 PM	[111] Impact of sulfur vacancies on the light emission and transport properties of MoS ₂ structures	Dr FABBRI, Filippo
1:20 PM	[17] Exciton and trion photoluminescence properties in 2D molybdenum disulfide	Dr GOLOVYNSKYI, Sergii
1:40 PM	[126] CuFe ₂ O ₄ / reduced graphene oxide nanocomposites: effect of synthesis conditions on structure, morphology, magnetic, electrical and electrochemical properties	Prof. KOTSIUBYNSKYI, Volodymyr
2:00 PM	[119] Tailoring MoS ₂ Optical Response: A Plasmonic Nanoparticle Approach	Ms IRFAN, Iqra
2:15 PM	[59] CVD Synthesis of 2D-MoS ₂ for Heterostructure Development in Optoelectronic Devices	Ms ESPOSITO, Fiorenza

Workshop on Sustainable Materials and Technologies: Innovative Materials for Energy Conversion and Photonic Applications 1 - Room 103 (2:40 PM - 4:20 PM)

-Conveners: Sergii Golovynskyi

time	[id] title	presenter
2:40 PM	[121] Physics and modeling of quantum dot solar cells	Prof. CAPPELLUTI, Federica
3:00 PM	[135] Luminescent carbon dots: critical review	Dr VASIN, Andrii
3:20 PM	[124] "Green" Aqueous Synthesis, Structural and Optical Properties of Quaternary Cu ₂ ZnSnS ₄ and Cu ₂ NiSnS ₄ Nanocrystals	Ms IVAKHNO-TSEHELNYK, Oleksandra
3:35 PM	[12] The luminescence of aluminate spinels: overview and application to dosimetry	Prof. JACOBSON, Luiz
4:05 PM	[90] Structural and optical properties of β -Ga ₂ O ₃ thin films obtained by spray pyrolysis	Ms SHAMROVSKA, Polina

Workshop on Sustainable Materials and Technologies: Innovative Materials for Energy Conversion and Photonic Applications 2 - Room 103 (4:30 PM - 6:30 PM)

-Conveners: Serhiy Kondratenko

time	[id] title	presenter
4:30 PM	[24] Progress in gallium oxide solar blind UV-C detectors	Dr BOSI, Matteo
4:50 PM	[115] Facts and Artifacts in Optical and Structural Characterization of Emerging Materials for Renewable and Sustainable Energy	Dr GALCA, Aurelian Catalin
5:10 PM	[20] Proposal for iterative cycles to obtain solar cell parameters, in the model of a solar cell diode.	Dr RANGEL KUOPPA, Victor Tapio
5:30 PM	[86] A novel approach for the precise control of growth kinetics in GaN(0001) epilayers	Mr CANCIANI, Matteo
5:45 PM	[4] Synthesis and Optical Characterization of Gd ₃ M ₂ Al ₃ O ₁₂ : M=Ce ³⁺ , Fe ³⁺	Ms TEJASWI RAMCHANDRA, Dewasthali
6:00 PM	[5] Enhancing Optical and Electrical Performance of ZnO Thin Films by Mg dopant	Ms BAKSHI, Shruti
6:15 PM	[36] Optimization of Back Surface Field (BSF) Layers for Efficiency Enhancement in CZTS Thin-Film Solar Cells	FATIHI, DOUNIA

Workshop on Sustainable Materials and Technologies: Event Closure - Room 103 (6:30 PM - 6:35 PM)

-Conveners: Serhiy Kondratenko