



International Conference on Emerging Photovoltaic Materials and Technologies,

ICEPV–2022, 27th – 29th April, 2022, Ankara, Turkey

Programme

DATE/TIME		28 April 2022
CENTRAL EUROPEAN TIME ZONE (CET)	ISTANBUL TIME ZONE	
8.30-9.20	9.30-10.20	<p>Keynote Session 2 Session Chair: Faruk Ballipinar</p> <p>Niyazi Serdar Sariciftci, JKU Linz, Linz Institute for Organic Solar Cells (LIOS), Austria <i>“From organic photovoltaics towards bio-organic systems for CO₂ recycling”</i></p>
		<p>Plenary Session 2 Session Chair: Faruk Ballipinar</p> <p>Jacinto Sa, Uppsala University, Sweden <i>“Plasmonics photophysics basics and their photovoltaic application”</i></p>
9.55-10.10	10.55-11.10	Break
10.10-10.35	11.10-11.35	<p>Invited Session 3 Session Chair: Dounya Barrit</p> <p>Serap Gunes, Yildiz Technical University, Turkey <i>“Perovskite Solar Cells: Rising Star of The Emerging PV Technologies”</i></p>
		<p>Sule Ertan Ela, Ege University, Turkey <i>“Emerging Photovoltaic Materials: Design and Characterization from Material to Solar Cell Device Technology”</i></p>
11.00-11.25	12.00-12.25	<p>Dogukan H. Apaydin, Vienna University of Technology, Austria <i>“Organic Semiconductors in Artificial Photosynthesis Applications”</i></p>
11.25-12.10	12.25-13.10	Lunch Break
12.10-12.35	13.10-13.35	<p>Invited Session 4 Session Chairs: Serap Gunes-Sule Ertan Ela</p> <p>Dounya Barrit, GEP (IRESEN), Morocco <i>“Monitoring the formation processing and the performance of perovskite solar cells with in-situ real-time grazing-incidence x-ray scattering methods”</i></p>
		<p>Ivan S. Babichuk, National Academy of Sciences of Ukraine, Ukraine <i>“Elimination of the secondary phases in CZTS thin films by plasma”</i></p>
12.35-13.00	13.35-14.00	



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13.00-13.25	14.00-14.25	Alwin Daus, RWTH Aachen University, Germany <i>“Transition Metal Dichalcogenide Solar Cells”</i>
13.25-13.50	14.25-14.50	Syed Ghufran Hashmi, University of Oulu, Finland <i>“Technological Development of Carbon-Based Printable Perovskite Solar Cell Technology”</i>
13.50-14.15	14.50-15.15	Mustafa Kulakci, Eskisehir Technical University, Turkey <i>“Cost Reduction Approaches to GaAs Based III-V Solar Cells by Hetero - Epitaxial Lift-off Technique”</i>
14.15-14.30	15.15-15.30	Break
14.30-14.55	15.30-15.55	Bryon W. Larson, NREL, Golden, CO, USA <i>“Combined Spectroscopy and Machine Learning Efforts to Accelerate Optimization of Photocurrent Extraction in OPVs”</i>
14.55-15.20	15.55-16.20	Recep Zan, Nigde Omer Halisdemir University, Turkey <i>“CVD-grown Single Layer Graphene Integrated CZTS Thin Film Solar Cells”</i>
15.20-15.35	16.20-16.35	Oral Session 2 Session Chairs: Alwin Daus-Recep Zan
		Vasanth B., SSN Research Centre, Sri Sivasubramaniya Nadar College of Engineering, India <i>“Microwave assisted hydrothermal Synthesis and characterization of TiO₂ microspheres as a light scattering layer for efficient dye-sensitized solar cells”</i>
15.35-15.50	16.35-16.50	Hossein Movla, University of Tabriz, Iran <i>“The Role of Spatial Distribution of Plasmonic Nanoparticles on Photovoltaic Parameters in Organic Bulk Heterojunction Solar Cells”</i>
15.50-16.05	16.50-17.05	P. Sanjitha Banu, Manonmaniam Sundaranar University, India <i>“A nontoxic and low cost hydrothermal route for synthesis of Wide band gap trigonal Fe doped Cu₂BaSnS₄ for Multi junction Solar Cell application”</i>
16.05-16.20	17.05-17.20	Kunjal Patel, The Maharaja Sayajirao University Baroda, India <i>“Electrochemical Photovoltaic cell and Photodetector based on Tin Selenide single crystals”</i>
16.20-16.35	17.20-17.35	Trupti Patel, SRICT-ISR, UPL University of Sustainable Technology, India <i>“Photo Electrochemical Solar Cell Study of DVT Synthesized Rhenium Doped Tin Selenide Crystals”</i>



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16.35-16.50	17.35-17.50	D. S. Jayalakshmi, Sathyabama Institute of Science and Technology, India <i>“Indium and Lanthanum Intermetallics for Thermal Photovoltaic Applications – Abinitio Study”</i>
16.50-17.05	17.50-18.05	Cagdas Yavuz, Ege University, Solar Energy Institute, Turkey <i>“Photocatalytic activities of α-Fe₂O₃/CdS/g-C₃N₄ composite material for degradation of MB dye and H₂ evaluation”</i>
17.05-17.20	18.05-18.20	Break
17.20-18.45	18.20-19.45	Poster Session 2 Session Chairs: Fatma P. Choi -Ankita Saini-Ismail Muhammed
PP-13		P. Kavitha, SRM Institute of Science and Technology, India <i>“Light soaking free solution processable metal oxide cathode interfacial layer enables high efficiency in bulk heterojunction polymer solar cell”</i>
PP-14		Ritwik Mukherjee, M. S. Ramaiah Institute of Technology, India <i>“Comparative Review of the Performance of ZnO & ZnO-CeO₂ Composite Based Dye-Sensitized Solar Cells”</i>
PP-15		Denet Davis, Optoelectronics Device Simulation Research Laboratory, India <i>“Numerical simulation study on P3HT:PCBM based bulk heterojunction organic solar cell with graphene as a hole transport layer”</i>
PP-16		Montiel-Perales S., CICATA Altamira, Mexico <i>“Study of the electronic structure of PbSe_{1-x}S_x alloys”</i>
PP-17		Ramarajan Ramanathan, Indian Institute of Science (IISc), India <i>“Zinc Stannate (Zn₂SnO₄) Based Electron Transport Layer for Dye-Sensitized Solar Cell Application”</i>
PP-18		G. Kiruthiga, Bharathiar University, India <i>“Influence of higher annealing temperature on the properties of MTO (magnesium tin oxide) substrate for DSSC applications”</i>
PP-19		Sudip Mandal, Vignan's Foundation for Sci., Tech. and Research, India <i>“Replacing Aromatic π-System with Cycloalkyl in Triphenylamine Dyes to Impact ICT in Dyes Pertaining to DSSCs”</i>
PP-20		K. S. Shalini Devi, Acad. of Sci. and Innovative Research (AcSIR), India <i>“Amino Silicate Surrounded Silver Nanoparticles Coupled Oxide Perovskites Based Photoanodes for Dye-Sensitized Solar Cells”</i>



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PP-21	Sreelakshmi M R., SRM Institute of Science and Technology, India <i>“Solution processed ZnO-CuI heterojunction for Ultraviolet based photovoltaic cell application”</i>
PP-22	S. Shenbagavalli, Kalasalingam Acad. of Research and Education, India <i>“AC impedance studies on PVP/PEO/(NH₄)₂Ce(NO₃)₆ based on solid polymer electrolyte film”</i>
PP-23	Khaled Fahima, Mohamed El Bachir El Ibrahimi University, Algeria <i>“Numerical simulation of graded CIGS solar cells”</i>
PP-24	Beddiaf Zaidi, University of Batna 1, Algeria <i>“Simulation of the electrical characteristics of CZTS based solar cells: Using the SCAPS simulator”</i>