Poster Programme

Wednesday, April 2, 2025

Poster Session A

Chair: **Sophie Pain**, University of Warwick

P1 The Impact of Crystallinity in Low-cost Donor Blends on Charge Generation for Organic Photovoltaics
Keren Ai, Imperial College London

P3 Development of fully non-toxic ink for the scalable deposition of perovskite thin layers
Ehsan Rezaee, University of Surrey

P5 Low synthetic complexity and scalable donor polymers for organic solar cells
Martina Rimmele, Imperial College London

P7 Development of Novel Photovoltaic Devices Combining Ferroelectric Nanostructures with Perovskite Solar Cells
Raphael Viana, Queen Mary University of London

P9 Photovoltaics for Nigerian Rice Processing – Social Perspective
Abdul-Azeez Yusuf, University of Exeter

P11 Correlation of soiling losses of distinct mega cities considering accumulation variance
Ali Alqahtani, University of Exeter

P13 Theoretical Study on the Effect of Doped Carbon Back Electrode on Lead-Free and Hole Transport-Free in $CsSnGeI_3$ -Based Concentrating Perovskite Solar Cells
Mai Alharbi, University of Exeter

P15 High-Performance Indoor Photovoltaic Mini-Modules with Carbon Electrodes for Sensor Power Generation
Sahil Verma, St Andrews University

P17 ZnO nanorod hemispherical light scatters for thin film solar cell applications
Yongtao Qu, Northumbria University

P19 Deposition and Characterization of RF Magnetron Sputtered High Mobility ITiO for PV Devices
Ana Jurado Estrada, Crest - Loughborough University

P21 Optical dependency characterization of semi-transparent solar module for Agrivoltaics
Yusuf Nadabo Chanchangi, University of Exeter

P23 Enhancing Non-fullerene Organic Photovoltaics Performance via Prethermal Treatment: Interface Morphology Optimization and Trap Suppression
Enas Moustafa, Imperial College London

P25 Synthesis and characterization of Ce-doped BaSnO3 for performance enhancement of concentrated perovskite solar cells
Nouf Alkathran, University of Exeter

Thursday, April 3, 2025

Poster Session B

Chair: **Nigel Mason**, PV Consulting

P2 Mind the sub-gap: exploring the impact of sub-gap features on the thermodynamics of disordered photovoltaics.
Drew Riley, Swansea University

P4 Building Integrated Photovoltaics (BIPV): A Comprehensive Review of Architecture, Technical Advancements, Lifetime Cost and Industrial Progress
Qandeel Rehman, University of Engineering and Technology

P6 Ambient and Solution Processable Organic Photovoltaic for Indoor Application
Ram Datt, Swansea University

P8 Encapsulation of perovskite devices using UV-curable ink jetted materials
Walter Stroud, University of Surrey

P10 Proton Radiation Hardness of Solar Cells and Ion Beam Analysis Investigation by Experiments Performed using particle accelerators
Pierre Couture, Surrey Ion Beam Centre

P12 Complex formation of ferrocene derivatives with electron-transporting layers enables improved performance and photostability in organic solar cells
Zhuoran Qiao, Imperial College London

P14 Combining Machine Learning with Physics-based Models for Day-Ahead Solar Forecasting
Rong Gu, Department of Engineering Science, University of Oxford

P16 Evaluating Biochar-Based Carbon Electrodes in Printed Mesoscopic Perovskite Solar Cells
Amy Neild, Newcastle University

P18 Enhancing Energy Estimation for Floating Photovoltaic Systems Using Machine Learning Techniques
Yiliao Zhou, University of Southampton

P20 Perovskite Printing for Flexible Thin-Film Microgroove Modules
Samual Ngombe, Specific Ikc

P22 Accurate Yield Modelling of a Semi-transparent Façade Agri-PV System
Lavanya Malarkannan, National Physical Laboratory

P24 Understanding the growth kinetics of MAPbI3 thin films on metal oxide vs organic semiconductor charge extraction layers and their indoor photovoltaic properties.
Edwin Pineda De La O, University of St Andrews

P26 Advancements in Solar Spectral Irradiance Modelling for Photovoltaic Systems: A Machine Learning Approach Utilizing On-Site Data
Haoxiang Zhang, University of Southampton