



European Materials Research Society

2026 Spring Meeting

May 25 - 29
Strasbourg Convention Centre

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SYMPOSIUM L

Towards printed and stable organic photovoltaics
from non-fullerene acceptors

Oral sessions : LEICESTER - FIRST FLOOR
Poster sessions : ETOILE - FIRST FLOOR

Symposium Organizers:

Carsten DEIBEL (Main organizer), Institut für Physik, Technische Universität Chemnitz, Germany
Eva M. HERZIG, Dynamics and Structure Formation – Herzig Group, University of Bayreuth, Germany
Xabier RODRIGUEZ-MARTINEZ, Universidade da Coruña, Spain
Yanchun HAN, University of Chinese Academy of Sciences (UCAS), China

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Wednesday May 27

L09 Charge transport & Device Physics

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- 08:30 3287 Factors controlling charge pair generation in molecular photovoltaic devices based on fused-ring acceptors
NELSON Jenny (Invited)
- 09:00 244 Probing the invisible charge transfer states for low-offset organic photovoltaics
YAN Jun
- 09:15 3366 The Role of Interfacial Dimensions on Charge Carrier Dynamics and Device Performance in Organic Solar Cells
HE Yakun
- 09:30 101 Hot or Not? Bulk Heterojunction vs. Bilayer OPV
KEMERINK Martijn (Invited)

Wednesday May 27

L10 Charge transport & Morphology

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- 10:30 710 New Insights into the Solid-State Microstructure of High-Performing Polymers for Organic Solar Cells
MARTIN Jaime (Invited)
- 11:00 751 Morphology Control of All-PSCs Enabled by Novel Solid Additives
FENG Dinglong
- 11:15 314 Defects Manipulation in Organic Photovoltaics
WEI Li
- 11:30 1917 Accelerating Drift-Diffusion Simulations of Bulk Heterojunction Organic Solar Cells Using Fourier Neural Operators
LE PIANE Fabio
- 11:45 610 Suppressing transport loss in organic photovoltaics through tailored, multiscale morphology control of donor and acceptor phases
FU Yuang

Wednesday May 27

L11 Processing

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- 13:30 2739 Organic Photovoltaics Processed from Green Solvents
NGUYEN Thuc-Quyen (Invited)
- 14:00 2446 Photodegradation pathways in printed non-fullerene organic solar cells
SALADINA Maria
- 14:15 3317 Fast generation of charge-transfer states in Y6 and YSe dimers following photoexcitation
CREED Isabel
- 14:30 719 Enhancing the stability of OPVs without compromising their sustainability
PANIDI Julianna (Invited)

- 15:00 766 Blade-coated all-polymer organic solar cells with 15% efficiency using eco-friendly solvent systems
VIDELLOT-ACKERMANN Christine
- 15:15 2703 Oxide-Stabilized Metallic Nanowire Networks as Printed Transparent Electrodes for Stable Organic Photovoltaics
BELLET Daniel
- 15:30 121 Aggregation control of organic semiconductors toward high performance photovoltaics
WANG Tao (Invited)

Thursday May 28

L12 Upscaling

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- 08:30 1947 Development and Characterization of Semitransparent Organic Solar Cells and Modules
WÜRFEL Uli (Invited)
- 09:00 3271 Industrially scaled OPV for low light applications
ÖSTERBERG Thomsa (Invited)
- 09:30 1937 How to print solar cells — Challenges and opportunities through process engineering
HÜBLER Arved C. (Invited)

Thursday May 28

L13 Interlayers & Interfaces

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- 10:30 1624 Transforming NiOx in a useful HTL for non-fullerene organic solar cells
LOI Maria Antonietta (Invited)
- 11:00 2874 Chemically Tuned and Co-Assembled Carbazole SAM Interfaces for Printed, Stable High-Efficiency NFA Organic Photovoltaics
WANG Ergang
- 11:15 2736 ZnO-free organic solar cells with self-assembled monolayers as electron transport layer for improved stability.
ZALANI Chélia
- 11:30 1256 Improving multijunction RAINBOW solar cells by ternary mixing
CAPELLA-GUARDIÀ Francesc Xavier
- 11:45 1883 Charge Transport Governed by the Harmonic Mean and Transport Network in Donor-Acceptor Ratio Dependent PM6:Y12 Organic Solar Cells
WANG Chen

Thursday May 28

L14 Engineering of Materials & Modules

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- 13:30 2777 From Rapid Screening to Digital Twins: Accelerating OPV Stability Prediction via Machine Learning
HEUMUELLER Thomas (Invited)
- 14:00 2355 Increasing polymer molecular weight eases the electronic to transparency trade-off in semitransparent organic photovoltaics
MARTÍN-RUIZ Martín

14:15	624	Fabrication of High-Performance Thick-Film Organic Solar Cells CAI Yunhao
14:30	123	Scalable organic photovoltaics: From stable cells to building-integrated modules MADSEN Morten (Invited)
15:15	331	Quinoxaline-based Nonfullerene Acceptors for High Performance Organic Solar Cells LIU Feng
15:30	1247	A-DA'D-A Type Organic Photovoltaic Materials and Devices YINGPING Zou (Invited)
16:30	96	Layer-by-Layer vs. Bulk Heterojunction Processing for R2R-Upscaled Inverted OPV Devices BIBRACK Max

Thursday May 28
LPO4 Poster session 4

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16:30	02_140	Enhancing light scattering in low-temperature PDINO cathode interlayer of organic solar cells using plasmonic copper nanorods SEIMELA Thapelo Ephraim
16:30	03_1492	Microstructural Studies of Solution-Processed Organic Optoelectronic Materials ZHANG Rui
16:30	04_1656	Engineering the photoactive layer of organic solar cells towards 21% efficiency and above FU Jiehao
16:30	06_1772	Deciphering design rules and Realizing Ohmic Regime of HTL-SAM for High Performance Organic Solar Cell NG Ho Ming
16:30	07_1879	Optical Properties and Stability of Printed Organic Solar Cells Investigated by Spectroscopic Ellipsometry EHM Alexander
16:30	10_2332	Impact of Gravure Printing on Active Layer Formation and Device Performance in Organic Solar Cells TARANENKO Svitlana
16:30	11_2419	Device Engineering for Mechanical Robust and Efficient Flexible Organic Solar Cells MA Wei
16:30	13_3195	Small conjugated S,N-heteroacene as an acceptor system with enhanced charge transport through induced crystallization CESCON DOS SANTOS Thamis
16:30	14_3199	Assessment of density functional theory and many-body methods for charge-transfer excitations in designed donor/acceptor molecular systems VIEIRA DANTAS FILHO Reinaldo
16:30	15_3267	Spatially Resolved Characterization of Organic Solar Cells Schwanitz Paul
16:30	16_3348	Thermodynamic Design of NFA-Matrix Bulk-Heterojunctions for Stable Quadrupolar Organic Photovoltaics LEE Chihyung

16:30	17_498	Morphology Characterizations of Charge Transport Pathways in Organic Photovoltaics for IoT Applications XU Luhang
16:30	18_826	Quinoxaline-based Electron Acceptors — Powerful Core Functionalization Capability and Outstanding Photovoltaic Performance ZHU Xiaozhang
16:30	19_847	Polaritons in Non-Fullerene Acceptors for High Responsivity Angle-Independent Organic Narrowband Infrared Photodiodes QURESHI Hassan

Friday May 29
L16 Materials Synthesis

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09:00	408	A Reliable Strategy for Analyzing the Structure and Composition of Conjugated Donor-Acceptor Block Copolymers for Organic Solar Cell Applications DEMADRILLE Renaud (Invited)
09:30	233	From low band-gap materials to multi-length scale morphology GAO Ke (Invited)

Friday May 29
L17 New OPV concepts

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10:30	1834	Narrow and wide bandgap organics for a la carte photovoltaics CAMPOY QUILES Mariano (Invited)
11:00	2491	Organic Solar Cell Driven Hydrogen Production EISNER Flurin
11:15	1693	Assessing the intrinsic thermal stability of D18-based bulk-heterojunctions: morphology and device performance PEINADOR Alberto
11:30	2771	Stabilizing non-fullerene based organic solar cells with naturally occurring antioxidants ENGMANN Vida (Invited)