

8th ACAP Annual Conference – 2 & 3 December 2020

Day 1. Wednesday 2 December – Online

	Join via online invitation sent by APVI
Keynote session - Chair: Richard Corkish (ACAP/UNSW)	
10.15 – 10.45	Plenary Speaker – Paul Burn, topic: “2D or not 2D – that is the perovskite question’
	ACAP Stream Posters
ACAP Poster session – Chairs: Nathan Chang, Richard Corkish	
11.00 – 12.30	ACAP Poster presentations (refer to posters and presenters on page 3)
12.30 – 13.30	Lunch Break
ACAP breakout session - Chairs: Fiacre Rougieux, David Jones	
13.30 – 13.42	ANU: Cheng Cheng "Renewable energy in Japan"
13.45 – 13.57	UoM: Dr Saghar Masoomi-Godarzi "Photoenergy conversion with singlet fission materials"
14.00 – 14.12	UNSW: Alison Lennon "Module Metallisation and Interconnection"
14.15 – 14.27	UQ: Dr Wei Jiang Development of materials for organic homojunction photovoltaics"
14.30 – 14.42	UoM: Dr James Bullock "Selective-contacts for high efficiency silicon solar cells"
14.45 – 14.57	UQ: Dr Hui Jin “Efficient flexible organic solar cells with a transparent graphene anode
15.00 – 15.30	Afternoon Break
ACAP Breakout session continued... Chairs:-Mei Gao, Udo Bach	
15.30 -15.42	Monash: Adam Surmiak “2D to 3D Perovskite Gradient Deposition System for Rapid Combinatorial Solar Materials Screening”
15.45 – 15.57	ANU: Hieu Nguyen “Recent progress in the characterization of various materials (silicon, perovskite, tandem, and 2D materials)”
16.00 – 16.12	UNSW: Jae Sun Yun "Nanoscale Functional Imaging of Emerging Solar Cells via Scanning Probe Microscopy"
16.15 – 16.27	Monash: Dr. Wenxin Mao “Light-Induced Reversal of Ion-Segregation in Mixed-Halide Perovskites”
16.30 – 16.42	CSIRO: Dechan Angmo “Materials and process development towards roll-to-roll fabrication of perovskite solar cells: a progress report
16.45 – 16.57	CSIRO: Hasitha Weerasinghe / Régine Chantler "A Case Study of the Degradation of Flexible Photovoltaic Modules”
17.00 – 17.30	ACAP Awards Presentations

Day 2. Thursday 3 December – (online only)

8.45-9:00	Join zoom meeting via invitation sent by ACAP
9.00 - 9.15	ACAP Director's Welcome (Martin Green)
9.15 - 9.35	PP1 Summary - Kean Chern (ANU)
9.35 - 9.55	PP2 Perovskite Summary - Shujuan Huang (UNSW)
9.55 to 10.25	Morning Break
10.25 - 10.40	PP2 OPV Summary – Paul Burn (UQ)
10.40 - 11.00	(CZTS) Xiaojing Hao (UNSW)
11.00 -11.15	PP3 Summary Hieu Nguyen (ANU)
11.15- 11.30	PP4 Summary - Pablo Ribeiro Dias , Marina Lunardi , Nathan Chang (UNSW)
11.30 -11.45	PP5 Summary - Richard Corkish (UNSW)
11.45 -12.00	8th ACAP Conference Closing (Martin Green , ACAP Director)
12.00	Lunch Break
12.15-2.00	ACAP Steering Committee Meeting (online)
2.00-3.30	ACAP Management Committee Meeting (online)

ACAP Poster Presentations - 2 December		
UQ	Dr Neil Mallo	"Fluorinated non-fullerene acceptors"
	Hui Li	"Fluorinated additives for high efficiency perovskite solar cells"
UNSW	Li Wang	"Hydrogen passivation for SiGe solar cells grown on Silicon substrate"
	Phillip Hamer	"Extended analysis of hydrogen re-distribution and surface-related degradation"
	Bram Hoex	"PV Manufacturing org: A free online research for PV manufacturing education"
UoM	Jegadesan Subbiah	"Effect of solid additive on the performance of non-fullerene organic solar cells"
	Calvin Lee	"Molecular packing and orientation in OPV thin films: The analysis of small molecular semiconductors through X-ray scattering"
	Gagandeep Ahluwalia	"Controlled polymerization of fully conjugated donor-acceptor block copolymer"
	Yanlin Wang	"Triplet harvesting polymers"
ANU	Md Arafat Mahmud	"In-situ Formation of Mixed-dimensional Surface Passivation Layers in Perovskite Solar Cells with Dual-isomer Alkylammonium Cations"
	YiLiang Wu	"The role of the MA ₂ Pb ₃ I ₈ .2DMSO intermediate phase on the passivation of grain boundaries in halide perovskites"
	Jingnan Tong	"Role of interfacial oxide layer in carrier-selective metal oxide contacts for silicon solar cells"
CSIRO	Mei Gao	"Novel Hole Transport Materials as a Replacement for PEDOT:PSS in Perovskite Solar Cells"
	Juan Benitez Rodriguez	"Stability Study of Air Processed, Roll-to-Roll Compatible Perovskite Solar Cells"
	Juengeun Kim:	"Vacuum-Free Roll-to-Roll Processed Perovskite Solar Cells Enable Ultra-Fast Composition Screening".
Monash	Dr. Narendra Pai	"Perovskite solar cells: new prospects beyond lead"
	Dr. Gaveshana Sepalage	"Carbon challenges gold: A Universal and laminatable carbon electrode for perovskite solar cells"
	Boer Tan	"The Impact of Spiro-OMeTAD Photodoping on the Reversible Light-Induced Transients of Perovskite Solar Cells"
	Dr. Tian Zhang	"Vacuum assisted fabrication of Tin/Lead perovskite solar cell"
	Dr. Xiongfeng Lin	"Efficient charge extraction dynamics in back-contact perovskite photovoltaics with mesoscopic architecture"
	Dr. Sebastian Furer	"Naphthalene Diimide Self-Assembled Monolayers for Perovskite Solar Cells"