Programme

Day 1 – Monday, 8th April

Oral Sessions (Auditorium)

Time	Event
08:30 - 09:30	Registration and coffee
09:30 - 09:45	Welcome talk
Session 1.1 Ch	aired by: Anja Roeding
09:45 - 10:30	Invited Talk 1.1 - Bruno Ehrler, AMOLF, Amsterdam, The Netherlands The path towards efficient and stable perovskite/silicon tandem solar cells
10:30 - 10:50	O1.1 Yifan Dong, Imperial College London The Impact of Driving Force on Recombination Dynamics in Nonfullerene Organic Solar Cells
10:50 - 11:30	Coffee break and Poster session 1.1 (room F16 CS6 & 7)
Session 1.2 Ch	aired by: Bruno Ehrler
11:30 - 11:50	O1.2 Vanira Trifiletti, Queen Mary University London In situ gel formation of high quality kesterite thin films
11:50 - 12:10	O1.3 Ross Hatton, Warwick University Light-catching silver window electrodes for high performance organic photovoltaics
12:10 - 12:30	O1.4 Mian Zahid Hussein, University of Exeter MOF derived Photocatalysts for high efficient solar-light-driven H ₂ evolution
12:30 - 12:50	O1.5 Liya Guo, Imperial College London Fine Control of Curie Temperature of La(Fe,Co,Si) ₁₃ Using Electrolytic Hydriding
12:50 - 14:00	Lunch
Session 1.3 Ch	aired by: Dibin Zhu
14:00 - 14:45	Invited Talk 1.2 - Robert Dorey, University of Surrey Towards sustainable manufacture of functional thick film energy harvesting devices
14:45 - 15:05	O1.6 Matias Carandell, Universitat Politècnica de Catalunya, Spain Kinetic energy harvester device for oceanic drifter applications
15:05 - 15:25	O1.7 Thibault Degousée, Queen Mary University London Thermal conductivity of isotropic and aligned polymer films for thermoelectric applications
15:25 - 16:00	Coffee break and Poster session 1.2 (room F16 CS6 & 7)
Session 1.4 Ch	aired by: Robert Dorey
16:00 - 16:20	O1.8 Jibran Khaliq, Northumbria University Fabrication of piezoelectric composites using high temperature di-electrophoresis technique
16:20 - 16:40	O1.9 Prateek Asthana, National Institute of Technology, Hamirpur, India A Model of a Wideband Microscale Piezoelectric Energy Harvester for extracting ambient vibrations
16:40 - 17:00	O1.10 Akshayaa Pandiyan, Imperial College London Performance Analysis of Amplified Piezoelectric Actuators (APA) for Energy Harvesting

Materials for Clean Energy Conference (MCEC 2019)

Programme

Day 1 – Monday, 8th April

Poster Session 1.1 and 1.2 (room F16 CS6 & 7)

P1.1	Eugenio Suena Galindez, Queen Mary University London
	Electrochemically Exfoliated Graphene Oxide for Thermoelectric Applications
P1.2	Kieran Spooner, University College London
	Predicting the Thermoelectric Properties of the Novel Half-Heusler, TaIrGe
P1.3	William Ferguson, University of Exeter
P1.3	Auxetic Design in Vibration Energy Harvesting
P1.4	Chris Bowen, University of Bath
	Electrical and mechanical self-healing in high performance dielectric elastomer actuator materials
	Tao Wen, University of Chester
P1.5	Integration and Characterisation of Piezoelectric Macro-Fibre Composite on Wind Turbine Blades for
	Vibration Energy Harvesting
D1 C	Pakinam el-Touby, Northumbria University
P1.6	Manufacturing of Advance Functional Materials for Sensing and Actuation Applications- A review
D4 7	Shane Davies, University of Exeter
P1.7	Nano-scale Patterning For Thermoelectric Applications
D4 0	Kavya Sadanandan, University of Exeter
P1.8	Fabrication of semi-transparent triboelectric nanogenerator for wearable devices
	Xue Yan, University of Bath
P1.9	In Situ Fabrication of Carbon Fibre Reinforced Polymer Composites with Embedded Macro Fibre
	Composites for Sensing and Energy Harvesting Applications
D4 40	Miwon Kang, Imperial College London
P1.10	Hybrid thermal energy harvesting mechanism
D4 44	Mayue Shi, Imperial College London
P1.11	Energy Harvesting Piezoelectric Wind Speed Sensor
D4 45	Sandra Dias, Instituto Superior Técnico, Lisbon, Portugal
P1.12	Flame-wall Interactions Influence on Thermoelectric Power Generation
	Edmund Chan, University of Exeter
P1.13	Optimisation of Band Gap Tuning of Hybrid Organic – Inorganic Perovskite Solar Cell
P1.14	Weidong Tang, Queen Mary University of London
	Doping halide perovskites single crystal for thermoelectric applications
	1

Programme

Day 2 – Tuesday, 9th April

Oral Sessions (Auditorium)

Time	Event
08:30 - 09:30	Registration and coffee
Session 2.1 Ch	aired by: Ana Neves
09:30 - 09:50	O2.1 Tianjun Liu, Queen Mary University London Thermoelectrics in halide perovskites
09:50 - 10:10	O2.2 Philip Bellchambers, Warwick Enhanced Oxidation Stability of Transparent Copper Window Electrodes for Organic Photovoltaics
10:10 - 10:30	O2.3 Kieran Walsh, University of Exeter Intercalated graphene electrodes for photovoltaic applications
10:30 - 11:00	Coffee break and Poster session 2.1 (room F16 CS6 & 7)
Session 2.2 Ch	aired by: Paolo Bondavalli
11:00 - 11:45	Invited Talk 2.1 Nuria Tapia-Ruiz, Lancaster University New design perspectives on electrode materials for Na-ion technology
11:45 - 12:05	O2.4 Heather Au, Imperial College London Structural influences on the performance and storage mechanisms in hard carbons for sodium-ion batteries
12:05 - 12:25	O2.5 Terence Liu, Northumbria University Superlight Electrode Materials for Polymer Electrolyte Fuel Cells
12:25 - 12:45	O2.6 Josh Bailey, University College London Multi-scale X-ray computed tomography of Thermal Ceramics for Energy Storage
12:45 - 13:45	Lunch
Session 2.3 Ch	aired by: Nuria Tapia-Ruiz
13:45 - 14:30	Invited Talk 2.2 - Paolo Bondavalli, Thales, France Graphene based supercapacitors fabricated using spray-gun deposition method
14:30 - 14:50	O2.7 Apostolos Panagiotopoulos, Imperial College London 3D printed microsupercapacitors from 2D material inks
14:50 - 15:10	O2.8 Barun Chakrabarti, Imperial College London Enhanced performance of a regenerative hydrogen/vanadium fuel cell using graphene modified electrodes
15:10 - 15:40	Coffee break and Poster session 2.2 (room F16 CS6 & 7)
Session 2.4 Ch	aired by: Ifan Stephens
15:40 - 16:00	O2.9 Mei-Chin Pang, Imperial College London Electrochemical Modelling of Relaxation Behaviour in Solid-state Lithium Batteries: From Measurements to Application Design
16:00 - 16:20	O2.10 Yang Xu, University College London A potassium-ion battery full cell based on highly nitrogen-doped carbon nanofibers
16:20 - 16:40	O2.11 Maria Crespo, Queen Mary University London Lignin-derived electrospun freestanding carbons as alternative electrodes for RFB

Materials for Clean Energy Conference (MCEC 2019)

Programme

Day 2 – Tuesday, 9th April

Poster Session 2.1 and 2.2 (room F16 CS6 & 7)

P2.1	Ned Taylor, University of Exeter
	Solving the Riddle of Colossal Permittivity
P2.2	Gopika Rajan, University of Exeter
	Flexible graphene- based temperature and humidity sensor on textile fibre
P2.3	Andrew Wain, National Physical Laboratory
	Electrodeposited Molybdenum Disulfide Films as Hydrogen Evolution Electrocatalysts
P2.4	Conor Price, University of Exeter
	Artificial Photosynthesis from Perovskite Materials: A SrSnO3 Case Study
	Daisy Thornton, Imperial College London
P2.5	Probing parasitic gas evolution reactions in nicke-rich LiNixMnyCo₂O₂ lithium-ion battery cathodes for
	electric vehicle applications
D2 C	Francis Davies, University of Exeter
P2.6	2D Rules: Band Gap Engineering in Weakly Interacting van der Waals Heterostructures
P2.7	Warda Rahim, University College London
	Understanding the phase behavior of pyrochlore Bi ₂ Sn ₂ O ₇
D2 C	Conor Murphy, University of Exeter
P2.8	FeCl₃ doped few-layer graphene as flexible electrode in solution processed OLED devices
22.6	James Dodwell, University College London
P2.9	Voltammetric measurements of platinum dissolution in PEM water electrolysers
	Keenan Smith, University College London
P2.10	Nanoscale investigation of PEM fuel cell materials with in-situ electrochemical atomic force microscopy
P2.11	Mo Qiao, Imperial College London
	Oxygenophilic Ionic Liquids Promote Oxygen Reduction/Evolution Catalysis in Nanocarbons

Programme

Day 3 – Wednesday, 10th April

Oral Sessions (Auditorium)

Time	Event		
08:30 - 09:00	Registration and coffee		
Session 3.1 Ch	Session 3.1 Chaired by: Maria Escudero-Escribano		
09:00 - 09:45	Invited Talk 3.1 – Magdalena Titirici, Imperial College London Black is the new green		
09:45 - 10:05	O3.1 Maria Sokolikova, Imperial College London Metastable phase for electrocatalytic hydrogen production: Direct synthesis of the metallic $1T'$ WSe_2		
10:05 - 10:25	O3.2 Xinhua Liu, Imperial College London Advanced Tough Gel Electrolytes for All-solid-state Flexible Energy Devices		
10:25 - 11:00	Coffee break and Poster session 3.1 (room F16 CS6 & 7)		
Session 3.2 Ch	aired by: Magdalena Titirici		
11:00 - 11:45	Invited Talk 3.2 – Maria Escudero-Escribano, University of Copenhagen, Denmark Enhanced oxygen electrocatalysis for renewable energy conversion		
11:45 - 12:05	O3.3 Servann Herou, Imperial College London Low-cost carbon nanofiber textiles as free-standing electrodes in supercapacitors		
12:05 - 12:25	O3.4 Jay Bullen, Imperial College London Bifunctional Photocatalyst-Sorbents For Remediation Of Arsenic Contaminated Groundwaters (and electrochemical determination of kinetics)		
12:25 - 12:30	Closing remarks		

Poster Session 3.1 (room F16 CS6 & 7)

P3.1	Rose Oates, Imperial College London
	Copper Nanoparticles for Electroreduction of CO₂ to Sustainable Fuels
P3.2	Alexander Dimitrijevic, University College London
	Study of degradation mechanisms within Ni-rich NMC cathode materials using imaging and X-Ray
	spectroscopy
P3.3	Nicholas Hillier, University of Southampton
	Textile Supercapacitors for E-Textile Applications
P3.4	Sally Luong, Queen Mary University London
	Thermoelectric Properties of Pristine and Modified CVD grown Single Layer Graphene
P3.5	Kening Wan, Queen Mary University London
	Flexible and Stretchable Self-Powered Multi-Sensors Based on Thermoelectric Effect