

OVERVIEW PROGRAMME

Monday 08 July 2019

11:00	Refreshments & registration								
12:00	Lunch								
12:45	Welcome & introductions								
Session chair	Ross Forgan								
13:00	<b>PL01: Title TBC</b> Stoddart, Fraser <i>Northwestern University, USA</i>								
14:00	Time for delegates to move between theatres								
Theme	Energy and environment			Magnetic, Electronic & Optical Materials		Nanomaterials & Porous Materials		Soft Matter & Biomaterials	
Session chair	David Scanlon			Fiona Meldrum		Martijn A. Zwijnenburg		Dwaipayan Chakrabarti	
14:10	Keynote	K01	<b>Charge carrier separation and transport in organic photovoltaics</b> von Hauff, Elizabeth <i>Vrije Universiteit Amsterdam, Netherlands</i>	K02	<b>Designing Photophysical Synergy into Hybrid Perovskites</b> Melot, Brent <i>University of Southern California, USA</i>	K03	<b>Growth of Iron Oxide Nanoparticles in Choline Chloride:Urea Deep Eutectic Solvents</b> Edler, Karen <i>University of Bath, UK</i>	K04	<b>Nanostructured MRI contrast agents: from structure-property design to responsive diagnostics</b> Davies, Gemma-Louise <i>University College London, UK</i>
14:40	Contributed oral	EE01	<b>Finger print vibrations of ferroelectricity in organic ferroelectrics for energy applications</b> Mukhopadhyay, Sanghamitra <i>ISIS Neutron and Muon Facility, UK</i>	MEO01	<b>Microscopic origin of the ultra-low thermal conductivity in hybrid perovskites</b> Skelton, Jonathan <i>University of Manchester, UK</i>	NPM01	<b>In situ synchrotron X-ray diffraction during hydrothermal synthesis of piezoelectric oxide materials</b> Marshall, Kenneth <i>Norwegian University of Science and Technology, Norway</i>	SM01	<b>Morphing spherical polymer nanoparticles into well-defined, high aspect ratio worms using supramolecular interactions</b> Wilks, Tom <i>University of Birmingham, UK</i>
15:00	Contributed oral	EE02	<b>Combining material databases and high-throughput computing for the discovery of new photo-sensitized ferroelectric materials</b> Plata, Jose J <i>Universidad de Sevilla, Spain</i>	MEO02	<b>Novel Semiconducting small molecules for Organic Electrochemical Transistors</b> Parr, Zachary <i>QMUL, UK</i>	NPM02	<b>Supraparticles – new functionalities via assembly of iron oxide building blocks to complex particulate entities</b> Wintzheimer, Susanne <i>Fraunhofer ISC, Germany</i>	SM02	<b>“Click”-Based LbL Selfassembled Films for Selective Bacteria Detection</b> Clavier, Gilles <i>PPSM CNRS / ENS Paris-Saclay, France</i>
15:20	Contributed oral	EE03	<b>Mixed anion A2SnX6 vacancy ordered double perovskites: structural and optical properties</b> Palgrave, Robert <i>University College London, UK</i>	MEO03	<b>Stable Blue Emitting Inorganic Halide Perovskite QDs/NCs</b> Tian, Jianjun <i>University of Science and Technology Beijing, China</i>	NPM03	<b>Radical polymerization as a tool to prepare mesostructured perovskite oxides with improved catalytic activity</b> Scholz, Jonas <i>University of Hamburg, Germany</i>	SM03	<b>Using polymer 3D architecture, size and chemistry to control nanoparticle distribution for Doxorubicin drug delivery in vitro and in vivo</b> Pearce, Amanda <i>University of Nottingham, UK</i>
15:40	Refreshments								
Theme	Energy and environment			Magnetic, Electronic & Optical Materials		Nanomaterials & Porous Materials		Soft Matter & Biomaterials	
Session chair	Saiful Islam			Brent Melot		Joaquin Calbo		Guosong Chen	
16:20	Contributed oral	EE04	<b>Engineering the Defect Properties of Bismuth Chalcogenide Systems for Photovoltaic Applications</b> Buckeridge, John <i>University College London, UK</i>	MEO04	<b>Enabling the Exploration of Copolymerisation Space with Machine Learning</b> Zwijnenburg, Martijn <i>University College London, UK</i>	NPM04	<b>Breathing-Dependent Redox Activity and Catalysis in a Hierarchical MOF</b> Minguez Espallargas, Guillermo <i>University of Valencia, Spain</i>	SM04	<b>3D Nanostructured Biocompatible Polymers for an in-vitro Blood Vessel Model</b> Jacak, Jaroslav <i>University of Applied Sciences, Austria</i>

16:40	Contributed oral	EE05	<p><b>Electron-hole recombination is enhanced by lone-pairs in kesterite solar cells</b> Kim, Sunghyun <i>Imperial College London, UK</i></p>	MEO05	<p><b>Evolutionary and high throughput crystal engineering based using computational structure prediction</b> Day, Graeme <i>University of Southampton, UK</i></p>	NPM05	<p><b>The importance of water in zeolite structure: framework lability, hydrolysis and Al-distributions</b> Heard, Christopher <i>Charles University in Prague, Czech Republic</i></p>	SM05	<p><b>The Visco-Elasticity of 2D Protein Networks – Implication for Stem Cell Expansion at Liquid-Liquid Interfaces</b> Gautrot, Julien <i>Queen Mary, University of London, UK</i></p>
17:00	Contributed oral	EE06	<p><b>Structural and mechanistic origins of light-induced phase segregation in organic-inorganic halide perovskite photovoltaic materials</b> Beal, Rachel <i>Stanford University, USA</i></p>	MEO06	<p><b>Computational Attempts to Approach Magnetism in Metal Organic Frameworks (MOFs)</b> Brivio, Federico <i>Charles University, Czech Republic</i></p>	NPM06	<p><b>Transversal reticular chemistry &amp; Zigzag ligands: unveiling new structural opportunities for metal-organic frameworks</b> Guillerm, Vincent <i>Institut Català de Nanociència i Nanotecnologia, Spain</i></p>	SM06	<p><b>Directing the Occurrence of Mechanochemistry using Manufacturing Flows</b> Fox, Niamh <i>University of Cambridge, UK</i></p>
17:20	Contributed oral	EE07	<p><b>The tip of a new iceberg: barocaloric organic-inorganic hybrid materials for ecofriendly refrigeration applications</b> Bermudez Garcia, Juan Manuel <i>University of Cambridge, UK</i></p>	MEO07	<p><b>Experimental and Theoretical studies of Pt(II) polyene incorporating bipyridiyl spacer groups with Re(CO)3Cl as Pendant sidechain</b> Al Balushi, Rayya <i>A'Sharqiyah University, Oman</i></p>	NPM07	<p><b>Water-based synthesis and phase-change CO2 adsorption behaviour of an ultramicroporous, perfluorinated Ce(IV) metal-organic framework</b> Taddei, Marco <i>Swansea University, UK</i></p>	SM07	<p><b>Designing Healable, Debond on Demand Adhesives</b> Greenland, Barny <i>University of Sussex, UK</i></p>
17:50	Early Career Researchers: How to network effectively								
18:20	Poster Session								
19:50	Close								

Tuesday 9 July 2019

08:00	Early Career Researchers: Identifying your transferable skills and how to market yourself effectively								
Session chair	Gemma-Louise Davies								
09:00	<b>PL02: Chiral Inorganic Nanostructures: Why and How</b> Kotov, Nicholas <i>University of Michigan, USA</i>								
10:00	Time for delegates to move between theatres								
Theme	Energy and environment			Magnetic, Electronic & Optical Materials		Nanomaterials & Porous Materials		Soft Matter & Biomaterials	
Session chair	Robert Palgrave			Brent Melot		Ross Forgan		Julien Gautrot	
10:10	Keynote	K05	<b>Understanding anharmonic lattice dynamics near phase transitions to control material stability and functionality</b> Delaire, Olivier <i>Duke University, USA</i>	K06	<b>Metal thiocyanate frameworks as a new platform for optical and magnetic functionality</b> Cliffe, Matthew <i>University of Nottingham, UK</i>	K07	<b>Employing Metal-Organic Frameworks to Control Reaction Processes</b> Champness, Neil <i>University of Nottingham, UK</i>	K08	<b>Carbohydrate-based Macromolecular Self-assemblies and their Biological Functions</b> Chen, Guosong <i>Fudan University, China</i>
10:40	Contributed oral	EE08	<b>Rational design of higher performing transparent conducting oxides for photovoltaics</b> Scanlon, David <i>University College London, UK</i>	MEO08	<b>Design of Bistable Gold@Spin-Crossover Core-Shell Nanoparticles Showing Large Electrical Responses for the Spin Switching</b> Giménez Marqués, Mónica <i>Universidad de Valencia-Institute of Molecular Science, Spain</i>	NPM08	<b>The Application of Bioinspired Green Chemistry to Design Sustainable and Scalable High Value Nanosilica</b> Patwardhan, Siddharth <i>University of Sheffield, UK</i>	SM08	<b>Hydrogel-based piezoresistive chemical and biochemical sensors</b> Erfkamp, Jan <i>Technische Universität Dresden, Germany</i>
11:00	Contributed oral	EE09	<b>Predicting the Thermoelectric Properties of the Novel Half-Heusler, TaIrGe</b> Spooner, Kieran B. <i>University College London, UK</i>	MEO09	<b>Hybrid BAM/Cdse liquid type Quantum Dots and phosphors for White Light-emitting Diodes</b> Verma, Akta <i>Indian Institute of Technology, India</i>	NPM09	<b>Production of Metal-Organic Frameworks using Microwave Technology: Science to Scale up</b> Laybourn, Andrea <i>The University of Nottingham, UK</i>	SM09	<b>Towards hydrazone based gel actuators</b> Hanton, Lyall <i>University of Otago, New Zealand</i>
11:20	Refreshments								
Theme	Energy and environment			Magnetic, Electronic & Optical Materials		Nanomaterials & Porous Materials		Soft Matter & Biomaterials	
Session chair	Olivier Delaire			Peter Skabara		François-Xavier Coudert		Tom Wilks	
12:00	Contributed oral	EE10	<b>Probe structure-based materials discovery</b> Collins, Christopher <i>University of Liverpool, UK</i>	MEO10	<b>Synthesis of New Organosulfur Donors based on BEDT-TTF and Related Systems.</b> Wallis, John <i>Nottingham Trent University, UK</i>	NPM10	<b>Control of Metal-Organic Framework Crystallization by Metastable Intermediate Pre-equilibrium Species</b> Yeung, Hamish <i>University of Oxford, UK</i>	SM10	<b>Using Stereospecific Nucleophilic Thiol-yne Click Chemistry to Tailor the Mechanical Properties of Hydrogels</b> Perez-Madrigal, Maria M. <i>University of Birmingham, UK</i>
12:20	Contributed oral	EE11	<b>Combining Chemical Heuristics, Machine Learning, and First-Principles Calculations for Rapid Materials Screening</b> Davies, Daniel <i>Imperial College London, UK</i>	MEO11	<b>Direct Heteroarylation Synthesis and Heteroatom Functionalization of Organic Materials</b> Welsh, Thomas <i>University of Calgary, Canada</i>	NPM11	<b>Using defect engineering in synthesis to create new phases of UiO family MOFs</b> Firth, Francesca <i>University of Cambridge, UK</i>	SM11	<b>Tuning Gels by Chirality</b> Adams, Dave <i>University of Glasgow, UK</i>

12:40	Contributed oral	EE12	<b>Pulsed electrodeposition and transfer of bismuth telluride thin films</b> Cicvaric, Katarina <i>University of Southampton, UK</i>	MEO12	<b>Twisted and 3D Molecular Structures for Organic Optoelectronic Applications</b> Wright, Iain <i>Loughborough University, UK</i>	NPM12	<b>Metal Organic Frameworks built up from (poly)phenolate ligands: from original inorganic building units to enhanced properties</b> Devic, Thomas <i>French National Centre for Scientific Research, France</i>	SM12	<b>Inorganic-organic Hybrid Nanoparticles: How to Realize Extremely High Drug Loads</b> Feldmann, Claus <i>Karlsruhe Institute of Technology (KIT), Germany</i>
13:00	Lunch and posters Early Career Researchers: Career panel discussion								
Theme		Energy and environment		Magnetic, Electronic & Optical Materials		Nanomaterials & Porous Materials		Soft Matter & Biomaterials	
Session chair		Elizabeth von Hauff		Cristina Giordano		Anthony Phillips		Paco Fernandez-Trillo	
14:30	Keynote	K09	<b>Design and synthesis of organic electronic materials</b> Jeffries-EL, Malika <i>Boston University, USA</i>	K10	<b>Low Dimensional and Frustrated Magnetism in Magneto-caloric Frameworks</b> Saines, Paul <i>University of Kent, UK</i>	K11	<b>Soft Porous Crystals: Extraordinary Responses to Stimulation</b> Coudert, Francois Xavier <i>Institut de Recherche de Chimie Paris, France</i>	K12	<b>Designing new degradable polymers for patient specific implants and devices</b> Becker, Matt <i>University of Akron, USA</i>
15:00	Contributed oral	EE13	<b>Encapsulated conjugated polymers based on Diketopyrrolopyrrole</b> Sharma, Lisa <i>University of Cambridge, UK</i>	MEO13	<b>Complex chemistry of metal-halide perovskite precursors</b> Shargaieva, Oleksandra <i>Helmholtz-Zentrum Berlin, Germany</i>	NPM13	<b>Computationally-inspired discovery of an unsymmetrical porous organic cage</b> Greenaway, Rebecca <i>University of Liverpool, UK</i>	SM13	<b>4D Printing of Biocompatible Polycarbonate Photopolymers</b> Weems, Andrew <i>Birmingham, UK</i>
15:20	Contributed oral	EE14	<b>Designing and preparing sustainable carbon hybrid materials</b> Gimenez Lopez, Maria <i>University of Santiago de Compostela, Spain</i>	MEO14	<b>Multifunctional layered magnetic materials: 2-D magnetic coordination polymers</b> Mulrooney, David <i>University College Dublin, Ireland</i>	NPM14	<b>Nanoporous materials for energy applications</b> Rochat, Sebastien <i>University of Bath, UK</i>	SM14	<b>Bioinspired liquid crystal network based light robots</b> Wani, Owies <i>Tampere University, Finland</i>
15:40	Contributed oral	EE15	<b>Flavin conjugated polydopamine: from small molecule photocatalysis towards photoelectrocatalysis applications</b> Crocker, Leander <i>University of Cambridge, UK</i>	MEO15	<b>Amide and thioamide functionalisation of Fe(II) complexes as a versatile method towards cooperative spin-crossover phenomena</b> Attwood, Max <i>University of Surrey, UK</i>	NPM15	<b>Sustained Solar H<sub>2</sub> Production from Thiazolothiazole-Covalent Organic Framework and Nickel Co-catalyst in Water</b> Biswal, Bishnu Prasad <i>Max-Planck-Institute for Solid State Research, Germany</i>	SM15	<b>Topology-directed nanoparticle disassembly for triggered drug delivery</b> Arno, Maria Chiara <i>University of Birmingham, UK</i>
16:00	Award Winner	AW01	<b>Black is the New Green: Nature Inspired Carbon Materials for Renewable Energy</b> Titirici, Magdalena <i>Imperial College London, UK</i>	AW02	<b>Twisted and other non-conventional conjugated architectures: switching functionality from charge transport to photonic applications</b> Skabara, Peter <i>University of Glasgow, UK</i>	AW03	<b>Evolutionary prediction of molecular materials</b> Jelfs, Kim <i>Imperial College London, UK</i>	AW04	<b>Bio-inspired Photonics: from nature to applications</b> Vignolini, Silvia <i>University of Cambridge, UK</i>
16:30	Refreshments								
Session chair		Graeme Day							
17:10	<b>PL03: 2D or not 2D? Molecular frameworks as platforms for solar energy conversion</b> Lotsch, Bettina <i>Max-Planck-Institut für Festkörperforschung, Germany</i>								
18:10	Poster Session								
19:40	Close								

Wednesday 10 July 2019

08:00	Early Career Researchers: Tips for applying for research grants								
Session chair	Aron Walsh								
09:00	<b>PL04: Interfacial Engineering and Scalable Technologies in Perovskite Solar Cells</b> Park, Nam-Gyu <i>Sungkyunkwan University (SKKU), South Korea</i>								
10:00	Time for delegates to move between theatres								
Theme	Energy and environment			Magnetic, Electronic & Optical Materials		Nanomaterials & Porous Materials		Soft Matter & Biomaterials	
Session chair	Doug McFarlane			Paul Saines		Karen Edler		Dave Adams	
10:10	Keynote	K13	<b>Interface design through manufacturing processes in batteries</b> Kendrick, Emma <i>University of Birmingham, UK</i>	K14	<b>Bottom-Up Design of Integrated Spectral Conversion Materials for Luminescent Solar Devices</b> Evans, Rachel <i>University of Cambridge, UK</i>	K15	<b>Drug Delivery from Surface Modified Metal-Organic Frameworks</b> Ross Forgan <i>University of Glasgow, UK</i>	K16	<b>Polypeptide-based Nanoconjugates as versatile Therapeutics</b> Vicent, Maria J <i>Polymer Therapeutics Lab. CIPF, Spain</i>
10:40	Contributed oral	EE16	<b>One-pot synthesis of electrospun hybrid fibers as binder-free electrodes for lithium-ion batteries</b> Tolosa, Aura <i>Leibniz-Institute for New Materials, Germany</i>	MEO16	<b>Triphenoxazoles: A New Class of Photoconducting, High Stokes Shift Fluorescent Liquid Crystals</b> Preece, Jon <i>University of Birmingham, UK</i>	NPM16	<b>Exploiting Precision Designed Polymers to Control Imaging Behaviour in MRI Contrast Agents</b> King, Aaron <i>University College London, UK</i>	SM16	<b>Polypeptide based hydrogels for tissue engineering</b> O'Brien, Shona <i>Royal College of Surgeons in Ireland, Ireland</i>
11:00	Contributed oral	EE17	<b>A new route to aqueous K-ion batteries based on Prussian blue thin films</b> Husmann, Samantha <i>INM-Leibniz-Institut für Neue Materialien, Germany</i>	MEO17	<b>A design rule for obtaining efficient near-IR TADF emission beyond 1000 nm</b> Congrave, Daniel <i>University of Cambridge, UK</i>	NPM17	<b>Genetically-engineered peptides for MOFs</b> Bradshaw, Darren <i>University of Southampton, UK</i>	SM17	<b>Antimicrobial nitric oxide peptide contact lens bandages</b> Aveyard, Jenny <i>University of Liverpool, UK</i>
11:20	Refreshments								
Theme	Energy and environment			Magnetic, Electronic & Optical Materials		Nanomaterials & Porous Materials		Soft Matter & Biomaterials	
Session chair	Emma Kendrick			Rachel Evans		Neil Champness		Matt Derry	
12:00	Contributed oral	EE18	<b>Stoichiometry in the alluaudite-type Na<sub>2</sub>+2xFe<sub>2</sub>-x(SO<sub>4</sub>)<sub>3</sub> cathode material for Na-ion batteries</b> Jungers, Thomas <i>University of Liège, Belgium</i>	MEO18	<b>Bio-Inspired Waveguide Encoded Lattices (WELs): from Slim Polymer Films with Wide Fields of View to Dynamic Lenses</b> Saravanamuttu, Kalaichelvi <i>McMaster University, Canada</i>	NPM18	<b>Generation of Porous Nanosheets from Non-stochastic Exfoliation of Layered Metal-Organic Frameworks</b> Au, Vonika Ka-Man <i>The Education University of Hong Kong, Hong Kong</i>	SM18	<b>Novel Broad-spectrum Virucidal Antivirals</b> Jones, Samuel <i>University of Manchester, UK</i>
12:20	Contributed oral	EE19	<b>Highly anisotropic thermal transport in lithium battery electrodes from first-principles</b> Yang, Hui <i>Imperial College London, UK</i>	MEO19	<b>3D Printing of Nonlinear Optical Lenses</b> Konu, Jari <i>University of Jyväskylä, Finland</i>	NPM19	<b>Mesoporous Metal-Organic Frameworks for the design of biocatalysts</b> Sicard, Clemence <i>Université de Versailles St-Quentin-en-Yvelines, France</i>	SM19	<b>Engineering Microbial Responses via Polymer Chemistry</b> Fernandez-Trillo, Paco <i>University of Birmingham, UK</i>
12:40	Contributed oral	EE20	<b>Intrinsic defect chemistry of the Lithium-Ion Solid Electrolyte Li<sub>7</sub>La<sub>3</sub>Zr<sub>2</sub>O<sub>12</sub>: A First-Principles Study</b> Squires, Alexander <i>University of Bath, UK</i>	MEO20	<b>Self-Assembled organic materials for chromic windows</b> Draper, Emily <i>University of Glasgow, UK</i>	NPM20	<b>Metal-Organic Frameworks - spin crossover complexes hybrid architectures for sensing applications</b> Tissot, Antoine <i>French National Centre for Scientific Research, France</i>	SM20	<b>Fluorescent nanoparticle sensor for hormones based on a native microbial transcription factor</b> Grazon, Chloe <i>Université de Bordeaux, France</i>
13:00	Lunch and posters								
	Early Career Researchers: How to Publish in High Impact Journals								
Theme	Energy and environment			Magnetic, Electronic & Optical Materials		Nanomaterials & Porous Materials		Soft Matter & Biomaterials	
Session chair	Samantha Husmann			Sandrine Heutz		Kim Jelfs		Paul Wilson	

14:30	Keynote	K17	<b>Electrocatalytic Materials and Electrolytes for Ambient Temperature Reduction of N<sub>2</sub> to Ammonia</b> MacFarlane, Doug <i>Monash University, Australia</i>	K18	<b>Graphene and related 2-dimensional layered materials for emerging printable electronics applications</b> Stoeva, Zlatka <i>DZP Technologies Ltd, UK</i>	K19	<b>Designing unusual pressure responses in framework materials</b> Cairns, Andrew <i>Imperial College London, UK</i>	K20	<b>Unique aqueous self-assembly behavior of a new thermoresponsive diblock copolymer</b> Armes, Steve <i>University of Sheffield, UK</i>
15:00	Contributed oral	EE21	<b>Understanding the behaviour of light metal imide ammonia decomposition catalysts</b> Makepeace, Josh <i>University of Oxford, UK</i>	MEO21	<b>n-Type small molecules and polymers for the organic electrochemical transistor</b> Borges-Gonzalez, Jorge <i>Queen Mary, University of London, UK</i>	NPM21	<b>Vapour-responsive covalent organic frameworks</b> Auras, Florian <i>University of Cambridge, UK</i>	SM21	<b>Fabrication of biocompatible nanostructures using 2-Photon Polymerisation</b> Delaney, Colm <i>University College Dublin, Ireland</i>
15:20	Contributed oral	EE22	<b>Pathways for fabrication of amorphous and crystalline multinary nanoparticles for electrocatalyst</b> Garzón Manjón, Alba <i>Max-Planck-Institut für Eisenforschung GmbH Germany</i>	MEO22	<b>Polymeric Conductive Fused MetalloPorphyrin Thin Films on Sensitive Substrate for Optoelectronic Devices: An oCVD approach</b> Bengasi, Giuseppe <i>Luxembourg Institute of Science and Technology, Luxembourg</i>	NPM22	<b>A real-time optical and electronic chemical sensor based on a <math>\beta</math>-amino enone linked, triazine-containing 2D covalent organic framework</b> Kulkarni, Ranjit <i>Humboldt University of Berlin, Germany</i>	SM22	<b>Olefins as (Organo-)Polymerization Catalysts: Access to Well-Defined Polyethers for Advanced Materials</b> Naumann, Stefan <i>University of Stuttgart, Germany</i>
15:40	Contributed oral	EE23	<b>Copper Foams as Electrocatalysts for the Reduction of CO<sub>2</sub> to C<sub>3</sub>-products</b> Rudd, Jennifer <i>Swansea University, UK</i>	MEO23	<b>Where exactly lies the "Goldilocks Zone" for the ideal polymer semiconductor?</b> Bojds, Michael J. <i>Humboldt-Universität zu Berlin, Germany</i>	NPM23	<b>Controlling the properties of porous liquids</b> Egleston, Benjamin <i>University of Liverpool, UK</i>	SM23	<b>A Nanomedicine toolbox based on the Crystallization Driven Self Assembly of Aliphatic Polycarbonates</b> Street, Steven <i>University of Bristol, UK</i>
16:00	Contributed oral	EE24	<b>Monitoring Capacity Losses through Operando X-ray Diffraction of Lithium Metal Anodes</b> Geise, Natalie <i>Stanford University, USA</i>	MEO24	<b>Silver gyroid metamaterials: self-assembly, chemical stability and optical properties</b> Abdollahi, S. Narjes <i>University of Fribourg, Switzerland</i>	NPM24	<b>New Type 2 Porous Liquids based on Coordination Cages</b> Crawford, Deborah <i>Queen's University Belfast, UK</i>	SM24	<b>Thermoreversible crystallization-driven aggregation of block copolymer nanoparticles in mineral oil</b> Derry, Matthew <i>University of Sheffield, UK</i>
16:20	Refreshments								
Session chair	Rachel O'Reilly								
17:00	<b>PL05: Functional Nanoscale and Hierarchical Materials by "Living" Crystallization-Driven Self-Assembly</b> Manners, Ian <i>University of Bristol, UK</i>								
18:00	<b>Poster prize winners announced</b>								
18:15	Close								
19:30	Conference banquet (ticket holders only)								

Thursday 11 July 2019

Theme		Energy and environment		Magnetic, Electronic & Optical Materials		Nanomaterials & Porous Materials		Soft Matter & Biomaterials	
Session chair		Daniel Davies		Zlatka Stoeva		Gemma-Louise Davies		Stefan Naumann	
09:00	Keynote	K21	<b>Conduction Mechanisms in Argyrodite Solid Electrolytes Li6PS5X</b> Morgan, Ben <i>University of Bath</i>	K22	<b>Functional molecular thin films for spintronics</b> Heutz, Sandrine <i>Imperial College London, UK</i>	K23	<b>Metallic ceramic based nanomaterials: a versatile tool box of applications</b> Giordano, Cristina <i>Queen Mary University of London, UK</i>	K24	<b>Bio-instructive Materials Chemistry of Polymers</b> Alexander, Cameron <i>University of Nottingham, UK</i>
09:30	Contributed oral	EE25	<b>Tunable Molecular-Material Hybrids at the Nanoscale for Catalytic Water Splitting</b> Xavier Sala <i>Autonomous University of Barcelona, Spain</i>	MEO25	<b>Pressure-induced distortion, bond formation and mechanics in a single component molecular conductor</b> Yeung, Hamish <i>University of Oxford, UK</i>	NPM25	<b>Carbon nanoreactors for environmental remediation</b> Astle, Maxwell <i>Nottingham University, UK</i>	SM25	<b>High Relaxivity Polymeric MRI Contrast Agents: Design, Synthesis and Polymerisation of Gd(III) Complexes</b> Berki, Thomas <i>Loughborough University, UK</i>
09:50	Contributed oral	EE26	<b>Amine-assisted Silicon Pillared Ti3C2 MXene for Hybrid Metal-Ion Capacitors</b> Maughan, Philip <i>Lancaster University, UK</i>	MEO26	<b>A photochromic coordination complex assembled from polyoxometallates and a diarylethene</b> Ritchie, Christopher <i>Monash University, Australia</i>	NPM26	<b>Sonication Enhanced Single-Walled Carbon Nanotube Selectivity in the Alignment Relay Technique</b> Kulak, Monika <i>University of Waterloo, Canada</i>	SM26	<b>POLYMERIC ARSENICALS AS A NEW PLATFORM FOR FUNCTIONAL (BIO)MATERIALS</b> Wilson, Paul <i>University of Warwick, UK</i>
10:10	Contributed oral	EE27	<b>Harvesting Waste Heat using Ionic Liquid-based Thermo-electrochemical Cells</b> Pringle, Jenny <i>Deakin University, Australia</i>	MEO27	<b>TBC</b>	NPM27	<b>Thiomolybdate clusters in carbon nanotubes towards electrocatalytic applications</b> Norman, Luke <i>University of Nottingham, UK</i>	SM27	<b>Making polymers from elemental sulfur</b> Hasell, Tom <i>University of Liverpool, UK</i>
10:30	Contributed oral	EE28	<b>Next-Generation Membrane Separators for Energy Conversion and Storage</b> Song, Qilei <i>Imperial College London, UK</i>	MEO28	<b>Tailoring superconducting properties in intercalated layered chalcogenides</b> Kamminga, Machteld <i>University of Oxford, UK</i>	NPM28	<b>Redox active metal organic frameworks</b> Calbo, Joaquin <i>Imperial College London, UK</i>	SM28	<b>Colloids Get Creative: Key to Open Crystals</b> Chakrabarti, Dwaipayan <i>University of Birmingham, UK</i>
10:50 Refreshments									
Theme		Energy and environment		Magnetic, Electronic & Optical Materials		Nanomaterials & Porous Materials		Soft Matter & Biomaterials	
Session chair		Qilei Song		David Scanlon		Nick Kotov		Tom Hasell	
11:30	Contributed oral	EE29	<b>Amorphization mechanism during Li-ion intercalation in battery electrode materials</b> Ravnsbæk, Dorthe <i>University of Southern Denmark, Denmark</i>	MEO29	<b>What limits the conductivity of ZnO:Al thin films? A new model to link electrical properties and deposition conditions</b> Muñoz-Rojas, David <i>Laboratoire des Matériaux et du Génie Physique Grenoble INP-CNRS, France</i>	NPM29	<b>Engineering polymers on the nanoscale</b> Willcock, Helen <i>Loughborough University, UK</i>	SM29	<b>Viruses as building blocks in functional materials</b> Cornelissen, Jeroen <i>University of Twente, Netherlands</i>
11:50	Contributed oral	EE30	<b>Quantitative in situ 2D/3D nanoimaging of functional materials with hard X-ray microscopy</b> Fam, Yakub <i>Karlsruhe Institute of Technology, Germany</i>	MEO30	<b>Layered transition metal trihalides MX<sub>3</sub> (X=Cl, Br, I): simulation and synthesis by chemical vapor transport of bulk flakes and nanosheets on substrates</b> Grönke, Martin <i>Leibniz Institute for Solid State and Materials Research Dresden (IFW Dresden), Germany</i>	NPM30	<b>Structural variation in metal formate perovskites under pressure</b> Phillips, Anthony <i>Queen Mary, University of London, UK</i>	SM30	<b>Catalytic Photoluminescent Bioinorganic Hybrids from Enzymes and Silicon Nanocrystals</b> Robidillo, Christopher Jay <i>University of Alberta, Canada</i>
12:10	Contributed oral	EE31	<b>Prospects and practical issues of large scale organic anode-free sodium-ion batteries</b> Orzech, Marcin <i>Swansea University, UK</i>	MEO31	<b>Interface chemistry and electrical characteristics of 4H-SiC/SiO<sub>2</sub> after nitridation in varying atmospheres</b> Regoutz, Anna <i>Imperial College London, UK</i>	NPM31	<b>SERS Biosensors based on Cucurbituril-mediated Nanoaggregates</b> Chio, Weng-I Katherine <i>UCL / A*STAR-SBIC, Singapore</i>	SM31	<b>Amphiphilic Janus Dendritic Liquid Crystals</b> Brailley-Partridge, James <i>University of York, UK</i>
12:30 Time for delegates to move between theatres									
Session chair Saiful Islam									
12:40 <b>PL06: New Materials for a New Age</b> Spaldin, Nicola <i>ETH Zurich, Germany</i>									
13:40 Chairs' summary									
14:00 Close of Conference									