

OVERVIEW PROGRAMME

Monday 3 July 2023

11:30		Refreshments & registration							
12:00		Lunch							
12:45		O'Reilly Hall Welcome & introductions Silvia Vignolini, University of Cambridge and David Scanlon, University College London (Co-chairs) Session chair: David Scanlon							
13:00		O'Reilly Hall Electrocatalytic Materials and Interfaces for the Production of Solar Fuels and Chemicals Peter Strasser Technical University Berlin, Germany							
14:00		Time for delegates to move between theatres							
		George Moore Auditorium Approaches to material design and discovery Session chair: Miriam M. Unterlass		O'Reilly Hall Future materials Session chair: Izzar Oyarzabal Epelde		Theatre D Materials for energy Session chair: Alex Cowan			
						Theatre E Materials for life Session chair: Susan Quinn			
14:10	Keynote	K01	Data-driven chemical understanding and machine learning of materials properties Janine George Federal Institute for Materials Research and Testing, Friedrich-Schiller University Jena, Germany	K02	New Materials from High Pressure Paul Attfield CSEC and School of Chemistry, University of Edinburgh, UK Winner: 2022 John B Goodenough Award	K03	Tailored Electrocatalyst Materials for Renewable Fuels and Chemicals Maria Escudero-Escribano ICREA and Catalan Institute of Nanoscience and Nanotechnology, Spain Winner: 2021 Journal of Materials Chemistry Lectureship	K04	New materials-based strategies for advanced therapeutics and ultrasensitive biosensing Molly Stevens Imperial College London, UK
14:40	Contributed	DD01	Autonomous millimeter scale high throughput battery research system (Auto-MISCHBARES) Fuzhan Rahmaman Helmholtz Institute Ulm at the Karlsruhe Institute of Technology, Germany	F01	Computer-aided understanding of phase changes in two-dimensional transition metal dichalcogenides Katherine Inzani University of Nottingham, UK	E01	Templated synthesis of porous single atom electrocatalysts with high atomic utilization Jesus Barrio Imperial College London, UK	L01	Morphogenetically active polyphosphate, an unexpected nano-bio-material for successful tissue regeneration Werner E.G. Müller University Medical Center of the Johannes Gutenberg University Mainz, Germany
15:00	Contributed	DD02	On the Largest Possible Mobility of Molecular Semiconductors and How to Achieve It Tahereh Nematlaram University of Strathclyde, UK	F02	New high-entropy oxides in a mullite-type structure Andrea Kirsch University of Copenhagen, Department of Chemistry and Nanoscience Center, Denmark	E02	Rational design of cathode materials for the electrocatalytic hydrogenation of organic substrates by modulating the binding strength of H surface coverages Anna Ciotti Trinity College Dublin, Ireland	L02	Inorganic-Organic Hybrid Nanoparticles as Theranostic High-Load Drug Carriers Claus Feldmann Karlsruhe Institute of Technology (KIT), Germany
15:20	Contributed	DD03	Locating novel polyanionic cathode materials for Li-ion batteries in underexplored chemical spaces Bonan Zhu University College London, UK	F03	Epitaxial growth, optical and electrical conductivity and electronic structure of metallic pyrochlore Bi ₂ Ru ₂ O ₇ heterostructures Marita O'Sullivan University of Liverpool, UK	E03	Tuning the Catalytic Activity of Bifunctional Metal Boride Nanoflakes for Overall Water Splitting Veronica Sofianos University College Dublin, Ireland	L03	In-situ FTIR monitoring of sarcosine N-carboxyanhydride from a lysine dendrimer macroinitiator Richard England AstraZeneca, UK
15:40		Refreshments							
		George Moore Auditorium Approaches to material design and discovery Session chair: Andrew Beale		O'Reilly Hall Future materials Session chair: Paul Attfield		Theatre D Materials for energy Session chair: David Scanlon		Theatre E Materials for life Session chair: Cameron Alexander	
16:20	Contributed	DD04	Exploring the configurational space of amorphous graphene with machine-learned atomic energies Zakariya El-Machachi University of Oxford, UK	F04	Thermally conductive h-BN/polymer composites for textiles thermal management Chengning Yao Imperial College London, UK	E04	Phase segregation and nanoconfined fluid O ₂ in a layered lithium rich oxide cathode material Kit McColl University of Bath, UK	L04	Controlled polymerisation of water-soluble monomers towards the fabrication of soft cellular scaffolds Maria Chiara Arno University of Birmingham, UK
16:40	Contributed	DD05	Combining Theoretical Approaches in Understanding the Ionisation Potentials of Metal Oxides Xingfan Zhang University College London, UK	F05	Characterisation of cation order in A-site doped polar hexagonal multiferroic MnAMo ₃ O ₈ (A ₂₊ = Fe, Co, Zn) Holly L. McPhillips University of Kent, UK	E05	Room Temperature Electrochemical Cycling of F-ions in CsMnFeF ₆ Brent Melot University of Southern California, USA	L05	3D printing, wet spinning and cell culture on carbohydrate low molecular weight supramolecular hydrogels Julette Fitremann CNRS - IMRCP - University of Toulouse, France
17:00	Contributed	DD06	Density Functional Theory (DFT): A tool for rational design of crystalline piezoelectrics Geetu Kumari University Of Limerick, Ireland	F06	Weaving the future: dynamic designs of active textiles using liquid crystalline elastomer yarn Pedro Emanuel Santos Silva Aalto University, Finland	E06	The Baseline of Prussian White: Exploring the Electrochemical and Physical Properties for Thick Structured Electrodes Halima Khanom University of Birmingham, UK	L06	Magnetically responsive hydrogels with high and reproducible hyperthermic performance Karina Nigoghossian University College Dublin, Ireland
17:20	Contributed	DD07	Investigating oxygen reduction kinetics at Au-water interfaces via neural network potential accelerated metadynamics Xing Yang Technical University of Denmark, Denmark	F07	Computational prediction and experimental realisation of earth-abundant transparent conducting oxide Ga-doped ZnSb ₂ O ₆ Joe Willis University College London, UK	E07	Best practices for photo-assisted batteries: Decoupling Heat and Light Arvind Pujari Cavendish Laboratory, Department of Physics, University of Cambridge, UK	L07	Fabrication of Polysaccharide-based pH Responsive Anti-inflammatory Nanofibers and Their Characterization for Wound Dressing Applications Bestie Elveren University of Maribor, Slovenia
17:40		Poster session (sponsored by Journal of Materials Chemistry)							
19:30		Close							

Tuesday 4 July 2023

		Session chair: Andrew Dove							
		O'Reilly Hall							
		Polymers and nanocomposites to treat vascular disease without a trace							
		Julia Kornfield							
		California Institute of Technology, USA							
		Time for delegates to move between theatres							
		George Moore Auditorium	O'Reilly Hall	Theatre D	Theatre F				
		Approaches to material design and discovery	Future materials	Materials for energy	Materials for life				
		Session chair: Kim Jeffe	Session chair: Jenni Garden	Session chair: Kevin Sivula	Session chair: Silvia Giordani				
09:00	Plenary	PL02							
10:00									
10:10	Keynote	K05	Digital Polymer Chemistry on The Rise Tanya Junkers Monash University, Australia	K06	Controlling Polymer Properties with Stereochemistry Andrew Dove University of Birmingham, UK Winner: 2022 Corday-Morgan Prize	K07	Understanding Operation of Halide Perovskite Photovoltaics on Different Length Scales Sam Stranks University of Cambridge, UK	K08	Material and Devices for Bioelectronic Medicine George Malliaras University of Cambridge, UK
10:40	Contributed	DD08	On-demand upgrading of material properties with universal polymer crosslinkers Jeremy Wulff University of Victoria, Canada	F08	Hydroamination as a Sustainable Process to Amine Functionalized Materials Sabrina S. Scott University of British Columbia, Canada	E08	Nanostructured coordination polymers for high performing solar cells Kezia Sasitharan Newcastle University, UK	L08	Hybrid fabrication of multimodal intracranial implants for electrophysiology and local drug delivery Johannes Gurke University of Potsdam, Germany
11:00	Contributed	DD09	Autonomous optimization of liquid-handling parameters for accurate transfer of viscous liquids using automated pipette robots Pablo Quijano Velasco Institute of Materials Research and Engineering, A*STAR (Agency for Science, Technology and Research), Singapore	F09	Switchable spin crossover material for passive control of temperature fluctuations in buildings Esther Resmes-Unen IMDEA Nanociencia, Spain	E09	Efficiency Bottleneck in Antimony Chalcogenide Solar Cells Xinwei Wang Imperial College London, UK	L09	Laser-fabricated sustainable porous carbon electrodes for electrochemical biosensing Sanghwa Moon Max Planck Institute of Colloids and Interfaces, Germany
11:20			Refreshments						
			George Moore Auditorium	O'Reilly Hall	Theatre D	Theatre F			
			Approaches to material design and discovery	Future materials	Materials for energy	Materials for life			
			Session chair: Paul Atfield	Session chair: Kyoko Nozaki	Session chair: Kevin Sivula	Session chair: Julia Kornfield			
12:00	Contributed	DD10	Hyperfluorescence from 2,1,3-benzothiadiazole-containing oligomers Christopher Riggs University of Glasgow, UK	F10	Exploiting supramolecular chemistry for self-healing organic semiconductors Bob Schroeder University College London, UK	E10	Asymmetric Supercapacitors using Hybrid Bi and Ni-based Materials Neil Robertson University of Edinburgh, UK	L10	Polymeric microneedle technologies for minimally invasive biomarker monitoring and drug delivery Hannah Leese University of Bath, UK
12:20	Contributed	DD11	System-based product design: An integrative paradigm for the realisation of sustainable and scalable functional nanomaterials Robert Pilling University of Sheffield, UK	F11	New strategies for self-healing electronics Fabio Cicora Polytechnique Montreal, Canada	E11	Covalently attached ruthenium-porphyrin complexes on aminated reduced graphene oxide for enhancing stable photocatalysis Roberto Gonzalez Gomez University of Galway, Ireland	L11	Flexible, transparent electrodes based on AgNW/ZnO nanocomposites for localized heating of lab-on-chip devices David Muñoz-Rojas Laboratoire des Matériaux et du Génie Physique Grenoble INP-CNRS, France
12:40	Contributed	DD12	Sizing up Materials Design: Predicting the Effect of Particle Size on the Optical Properties of Nanoparticles Martijn A. Zwijnenburg University College London, UK	F12	Two-dimensional Semiconductor Ni3TeO6: From Theoretical Prediction to Shape-controlled Synthesis Javier Fernández-Catalá* UOULU-NANOMO Unit, Finland	E12	Electrochemical formation of ammonia from nitrates in wastewater using a liquid metal electrode Anthony O'Mullane Queenstand University of Technology, Australia	L12	Magnetic motors in inhomogeneous environments Miguel A Ramos Docampo Aarhus University, Denmark
13:00			Lunch and posters						
14:00			George Moore Auditorium						
			Making science greener – Community perspectives and solutions						
			George Moore Auditorium	O'Reilly Hall	Theatre D	Theatre F			
			Approaches to material design and discovery	Future materials	Materials for energy	Materials for life			
			Session chair: Jamie Neilson	Session chair: Jenni Garden	Session chair: Alex Cowan	Session chair: Cameron Alexander			
14:30	Keynote	K09	Syntheses of complex halide perovskites: mosaic perovskites and perovskite heterostructures Hema Karunadasa Stanford University, USA	K10	Polymer Synthesis and Degradation for Sustainability Kyoko Nozaki The University of Tokyo, Japan	K11	The development of new ionic electrolytes for energy storage devices Jenny Pringle Deakin University, Australia	K12	
15:00	Contributed	DD13	Phase behaviour and driving forces behind ferroelectricity in MDABCO-based perovskites Hamish Yeung University of Birmingham, UK	F13	Sustainability and quality: Hydrothermal injection synthesis of magnetic nanomaterials for medicine Annie Regan Trinity College Dublin, Ireland	E13	Ion-Conductive Metal-Organic Framework Membranes for Lithium Metal Batteries Rui Tan Imperial College London, UK	L13	Polyvalent glycan-nanoparticles as a powerful new biophysical platform for multivalent lectin glycan interactions Dejian Zhou University of Leeds, UK
15:20	Contributed	DD14	Structural Chemistry of Molecular Perovskites: Towards the Design of Stimuli Responsive Behaviour Gregor Kleihs Technical University of Munich, Germany	F14	Piezoelectric Biomolecules for Lead-Free, Reliable, Eco-Friendly Electronics Sarah Guerin University of Limerick, Ireland	E14	Structural Complexity in Prussian Blue Analogue K-ion Cathode Materials John Cattermull University of Oxford, UK	L14	Multimodal theranostic amyloid-β targeted upconversion gadolinium-based nanoprobe for Alzheimer's disease Man Shing Wong Hong Kong Baptist University, Hong Kong
15:40	Contributed	DD15	Identifying the ground state structures of point defects in solids Irea Mosquera Lois Imperial College London, UK	F15	Aluminum formate, Al(HCOO)3: An earth-abundant, scalable, and highly selective material for CO2 capture Hayden Evans NIST Center for Neutron Research, USA	E15	Improving Lithium metal battery performance by pulsed current charging and discharging Katarina Cicvaric Helmholtz Institute Ulm, Karlsruhe Institute of Technology, Germany	L15	Lignin-based polymers and colloids for functional bio-based materials Mohammad Morsali Stockholm University, Sweden
16:00	Contributed	DD16	Quantitative detection of Force-Fluorescence correlation by self-assembled nanostructures at Nanoscale Brajati Das University of Tokyo, Japan	F16	SUPRABEADS for Catalysis Susanne Wintzheimer Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany	E16	Low Temperature Graphitic Carbon from Cellulose for Li-ion Batteries Emily Hayward* University of Birmingham, UK	L16	Antimicrobial and degradable triazolinone (TAD) crosslinked polypeptide hydrogels Scott Kimmins Pontificia Universidad Católica de Valparaíso, Chile
16:20			Refreshments						
			Session chair: Susan Quinn						
			O'Reilly Hall						
			Repurposing the Blueprint for Life Through Colloidal Crystal Engineering with DNA						
			Chad Mirkin						
			Northwestern University, USA						
			Winner: 2021 de Gennes Prize						
18:00			Poster session (sponsored by Journal of Materials Chemistry)						
19:30			Close						

Wednesday 5 July 2023

		Session chair: David Scanlon							
		O'Reilly Hall Computation-guided discovery of supramolecular materials Kim Jelts Imperial College London, UK							
		Time for delegates to move between theatres							
		George Moore Auditorium Approaches to material design and discovery Session chair: Miriam M. Unterlass	O'Reilly Hall Future materials Session chair: Nicholas Chilton	Theatre D Materials for energy Session chair: David Scanlon	Theatre F Materials for life Session chair: Susan Quinn				
09:00	Plenary	PL04							
10:00									
10:10	Keynote	K13	Finding Thermodynamic Shortcuts with Hyperdimensional Chemistry Jamie Neilson Colorado State University, USA	K14	Unlocking the potential of molecule-based magnets at room temperature and above Izhar Oyarzabal BCMaterials, Spain	K15	Coordination complexes and polymers for Hybrid Photovoltaics Marina Freitag Newcastle University, UK Winner: 2022 Harrison-Meldola Memorial Prize	K16	Polymer Therapeutics – New Materials with Applications from Oncology to Infection Cameron Alexander University of Nottingham, UK
10:40	Contributed	DD17	The layering and subsequent patterning of electrospun polymer mats to improve membrane properties Graham Reid School of Chemical Sciences, Ireland	F27	Impact of Finite Phonon Lifetimes on the Spin Dynamics of Single-Molecule Magnets Rizvan Nabi University of Manchester, UK	E17	Cation Disorder in AB₂ Chalcogenide Photovoltaics (NaBiS₃ & AgBiS₃) Seán Kavanagh University College London & Imperial College London, UK	L17	Designer therapeutic and diagnostic tools: From cancer to chemical weapons Gemma-Louise Davies University College London, UK
11:00	Contributed	DD18	Computational analysis and design of precursors for thin film deposition Simon Elliott Schrodinger, USA	F28	Magnetised MOFs – an attractive solution to carbon capture Luke Woodliffe University of Nottingham, UK	E18	Luminescent waveguide-encoded lattices for light harvesting Takashi Lawson University of Cambridge, UK	L18	
11:20			Refreshments						
			George Moore Auditorium Approaches to material design and discovery Session chair: Miriam M. Unterlass	O'Reilly Hall Future materials Session chair: Nicholas Chilton	Theatre D Materials for energy Session chair: Kevin Sivula	Theatre F Materials for life Session chair: Cameron Alexander			
12:00	Contributed	DD19	Resonant Properties of Polycrystalline Biomolecular Assemblies Tara Ryan University of Limerick, Ireland	F19	Stimuli responsive complex salts with ferroelectric switching and thermistor properties Lidija Andros Dubraja Rudjer Boskovic Institute, Croatia	E19	Atomistic Simulations of Microporous Polymer Membranes for Energy Storage and Conversion Charlotte Breakwell Imperial College London, UK	L19	
12:20	Contributed	DD20	Interstitial Hydrides of High Entropy Alloys Aaron Keith Queen Mary, University of London, UK	F20	Symmetry-Induced Singlet-Triplet Inversions Beyond Azaphenalenones: New Molecular Emitters from Known Chemistry J. Terence Blaskovits École polytechnique fédérale de Lausanne, Switzerland	E20	A New Generation of Designed (Electro-)Catalysts for Sustainable Energy Production Cristina Giordano Queen Mary University of London, UK	L20	Functional mesoporous silica nanoparticles towards oral delivery of insulin Claudia Iriarte-Mesa* Department of Inorganic Chemistry – Functional Materials, Faculty of Chemistry, University of Vienna, Austria
12:40	Contributed	DD21	Spectroscopic in situ studies of the mechanochemical formation of luminescent complexes directly from metal (hydr)oxide precursors Thomas Auray University of Birmingham, UK	F21	Stability and diffusion dynamics of TiW/Cu heterostructures investigated by X-ray photoelectron spectroscopy Anna Regoutz University College London, UK	E21	Nanocellulose Electrolyte Membranes for Fuel Cells Stephen Lyth University of Strathclyde, UK	L21	Influence of the swollen lyotropic liquid-crystalline emulsions phase on the penetration rate of active ingredients into the skin Mateo Michel Torino* University of Buenos Aires, Argentina
13:00			Lunch and posters						
			George Moore Auditorium Approaches to material design and discovery Session chair: Tanja Junkers	O'Reilly Hall Future materials Session chair: Izhar Oyarzabal Egelde	Theatre D Materials for energy Session chair: Alexander Cowan	Theatre F Materials for life Session chair: Cameron Alexander			
14:00	Keynote	K17	High-Throughput Approaches for the Discovery of Organic Materials Becky Greenaway Imperial College London, UK	K18	Dissolving Boundaries: Water as Near-Universal Solvent for Materials Miriam Unterlass University of Konstanz, Germany	K19	Materials for direct solar-to-fuel energy conversion using semiconductor photoelectrochemistry Kevin Sivula Ecole Polytechnique Fédérale de Lausanne, Switzerland	K20	Sustainable Mono-Material Product Design with Biodegradable and Recyclable Polymers Eugene Chen Colorado State University, USA
14:30	Contributed	DD22	Towards accelerated, experimental-theoretical discovery of novel porous liquids Austin Mroz Imperial College London, UK	F22	Artificial synthesis of covalent triazine frameworks for local structure and property determination Catherine Mollart Lancaster University, UK	E22	Developing BIVO₄-based photoelectrochemical water splitting devices using chemical vapour deposition Andreas Kafizas Imperial College London, UK	L22	Valorizing Post-consumer Cotton Fabrics through the Extraction of Cellulose Nanocrystals Maria-Ximena Ruiz-Caldas Stockholm University, Sweden
14:50	Contributed	DD23	Coarse-grained modelling for materials design Emma Wolpert Imperial College London, UK	F23	Solvothermal synthesis of soluble, surface modified metal oxide nanocrystals Peter Dunne Trinity College Dublin, Ireland	E23	A comprehensive study of in-situ Nb-doping and microwave-assisted Co(OH)₂ cocatalyst for enhancing photoelectrochemical water splitting of hematite photoanodes Periyasamy Anushikaran Division of Biotechnology, Jeonbuk National University, South Korea	L23	Waste-based materials for environmental remediation Ivano Alessandri INSTM and University of Brescia, Italy
15:10	Contributed	DD24	Device-scale atomistic modelling of phase-change memory materials using a machine-learned interatomic potential Yuxing Zhou University of Oxford, UK	F24	N-containing silica spherical particles: one-pot synthesis, particularities of structure, and extended applications Inna Melnyk Institute Of Geotechnics SAS, Slovakia	E24	Templated 2D polymer heterojunctions for improved photocatalytic hydrogen production Catherine Althison University of Oxford, UK	L24	The circular economy of calcium phosphates: sources, opportunities and application in cosmetic. Alessio Adamiano Consiglio Nazionale delle Ricerche, Italy
15:30	Contributed	DD25	Metal organic framework synthesis in a modular robotic system driven by a chemical programming language Dongling He University of Glasgow, UK	F25	Carbene-Metal-Amide Materials Design for application in Deep-Blue and near-IR Energy Efficient OLEDs Alexander Romanov* University of Manchester, UK	E25	Photoelectrocatalysis on sulfur-doped carbon nitride hybrid materials Pablo Jimenez Calvo Department of Materials Science WW4-LKO, University of Erlangen-Nuremberg, Germany	L25	Towards recyclable 2D material-based nanofiltration membranes for water purification Aine Coogan Trinity College Dublin, Ireland
15:50			Refreshments						
16:20			George Moore Auditorium Careers from chemistry Session chair: Cameron Alexander						
17:00	Plenary	PL05	O'Reilly Hall Towards life-inspired soft matter dynamics and functionalities Olli Ikkala Aalto University, Finland						
18:00			O'Reilly Hall Poster prize winners announced						
18:15			Close						
19:30			Coaches depart University College Dublin						
20:00			Drinks reception at Guinness Storehouse						
20:45			Upon arrival, guests will be invited to undertake a self-guided tour of the ground and first floors of Guinness Storehouse.						
20:45			Conference banquet						
23:00			Coaches depart Guinness Storehouse and return to University College Dublin						

Thursday 6 July 2023

		George Moore Auditorium Approaches to material design and discovery Session chair: Olli Ikkala		O'Reilly Hall Future materials Session chair: Itzar Oyarzabal Epelde		Theatre D Materials for energy Session chair:		Theatre F Materials for life Session chair:	
09:00	Keynote	K21	Green Chemistry through the Solid State: Sky is the Limit Tomislav Friščić University of Birmingham, UK	K22	Practising Reticular Chemistry with Titanium-Organic Frameworks Carlos Mari-Gastaldo Universidad de Valencia/Instituto de Ciencia Molecular, Spain	K23	Hyperdimensional imaging of functional materials under operando conditions Andy Besle University College London, UK Winner: 2022 Peter Day Award	K24	Carbon nano-onions for biomedical applications Silvia Giordani Dublin City University, Ireland
09:30	Contributed	DD26	Structure control using bioderived solvents in electrochemical metal-organic framework synthesis Stephen Worrall Aston University, UK	F26	Metal Organic Frameworks: A novel material for the detection of radioactive gases Sharvaneer Mauree CEA Saclay/LIST/Université Paris-Saclay, France	E26	Controlling the heat transport in thermoelectric materials Jonathan Skelton University of Manchester, UK	L26	DNA binding and luminescent response of carbon dots Clara Zehe University College Dublin, Ireland
09:50		Refreshments							
10:30		George Moore Auditorium Publishing with impact							
		George Moore Auditorium Approaches to material design and discovery Session chair: Olli Ikkala		O'Reilly Hall Future materials Session chair: Susan Quinn		Theatre D Materials for energy Session chair: Martijn Zwijnenburg		Theatre F Materials for life Session chair:	
11:10	Contributed	DD27	Sustainable water treatment solution: 3D printed and fully biobased water purification filters Natalia Fijol Stockholm University, Sweden	F27	Enhancement of Circularly Polarized Luminescence (CPL) Dissymmetry Factor by a Guest-Host Interaction in Chromophore Encapsulated Homochiral Gyroidal MOFs Kazuya Nakashima Nagoya University, Japan	E27	Tailoring the Properties of Luminescent Downshifting Layers with POSS Nanoparticles Helen Tunstall-Garcia University of Cambridge, Dept. Materials Science & Metallurgy, UK	L27	Zirconium-based MOFs and their biodegradable polymer composites for controlled and sustainable delivery of herbicides Sanjit Nayak University of Bradford, UK
11:30	Contributed	DD28	A near-universal design concept for waterborne high-performance polyimides Daniel Alonso Cerron Infantes Universität Konstanz, Germany	F28	How does the spin transition affect electrical transport in 3D crystalline MOFs? Ana Martínez IMDEA Nanociencia, Spain	E28	Understanding aluminium graphite dual-ion batteries: anode-electrolyte interface evolution Anastasia Teck Imperial College London, UK	L28	
11:50	Contributed	DD29	Stability of single metal atoms on defective and doped diamond surfaces Shayantan Chaudhuri University of Warwick, UK	F29	Development of luminescent forensic security materials utilising ionic liquid technology Anthony Fitzpatrick Nottingham Trent University, UK	E29	Exploring the Potential of 2D Chalcogenide Films to Operate at Scale as Electrocatalysts for Hydrogen Production in Proton Exchange Membrane Electrolysers Arun Kumar Samuel University of Glasgow, UK	L29	Nano-Structured Poly amic acid Membranes for Enhanced Water Filtration Naumih Noah School of Pharmacy and Health Sciences, United States International University, Kenya
12:10		Time for delegates to move between theatres Session chair: Nicholas Chilton							
12:20	Plenary	PL06	O'Reilly Hall Magnetic molecules in quantum nanoscience Roberta Sessoli Università degli Studi di Firenze, Italy						
13:20		Chairs' summary							
13:30		Close of conference							
14:00-17:00		Post-event online networking							