

5th Annual UK Porous Materials
Conference
UKPorMat 2022

University of Strathclyde, Glasgow
13th – 14th June



UKPorMat 2022 Programme
Day 1 – Monday, 13th June 2022

Time	Event
08:30 - 09:50	Conference Registration in the main foyer of the Technology and Innovation Centre (TIC), University of Strathclyde
09:50 - 10:00	Miguel Jorge , University of Strathclyde <i>Welcome and opening remarks – TIC Auditorium B/C</i>
Session 1	Chair: Miguel Jorge
10:00 - 10:40	<u><i>Dalton Transactions Lecture</i></u> Stefan Kaskel , TU Dresden <i>Dimensionally controlled chemistry of Metal-Organic Frameworks: From 2D to 4D</i>
10:40 - 11:00	C. Ye , University of Edinburgh <i>Efficient ion-sieving polymer membranes enable long-life organic redox flow batteries</i>
11:00 - 11:40	<i>Coffee Break – TIC foyer</i>
Session 2	Chair: Alexandros Katsoulidis
11:40 - 12:00	M. W. S. Chong , University of Strathclyde <i>Elucidating the mechanism of metal-organic framework formation via non-invasive Raman spectroscopy</i>
12:00 - 12:20	Michael R. Hafner , Graz University of Technology <i>App-based Quantification of Crystal Phases and Amorphous Content in ZIFs Biocomposites</i>
12:20 - 12:40	L. McHugh , University of Cambridge <i>Mechanochemically Synthesised Dicyanamide Hybrid Organic-Inorganic Perovskites and their Melt-Quenched Glasses</i>
12:40 - 13:00	P. W. Doheny , University of Kent <i>Magnetocaloric and Thermal Expansion Studies of a Family of Ln Adipate Metal-Organic Framework Materials</i>
13:00 - 14:30	<i>Lunch and RSC Porous Materials Interest Group Annual Meeting – TIC foyer</i>
Session 3	Chair: Lauren McHugh
14:30 - 15:10	Rebecca Greenaway , Imperial College London <i>New Phases and Transitions – From Organic Cages to Porous Liquids and Glasses</i>
15:10 - 15:30	A. Carné-Sánchez , Universitat Autònoma de Barcelona <i>Surface Functionalization and Assembly of Rh(II)-based Metal-Organic Polyhedra (MOPs)</i>
15:30 - 15:50	A. Fernandez-Mato , University of Loughborough <i>Single crystals of a complex hierarchical micro- and macroporous molecular framework</i>
15:50 - 16:10	E. H. Wolpert , Imperial College London <i>Coarse-grained modelling to predict the packing of porous organic cages</i>
16:10 - 16:40	<i>Coffee Break – TIC foyer</i>
Session 4	Chair: Jamie Gould
16:40 - 17:00	T. Stavert , University of Strathclyde <i>Creating Order in Bio-Inspired Silica with Multi-scale Modelling</i>
17:00 - 17:20	J. A. Mason , Harvard University <i>Manipulating Porosity in Metal–Organic Liquids</i>
17:20 - 18:00	Thomas Bennett , University of Cambridge <i>Non-Crystalline Metal-Organic Frameworks : Formation, Characterisation and Porosity</i>
18:00 - 21:00	<i>Poster Session and Networking Buffet – TIC foyer</i>

Day 2 – Tuesday, 14th June 2022

Time	Event
Session 5	Chair: Petra Szilágyi
09:00 - 09:40	<u>ACS Omega Lecture</u> Veronique Van Speybroeck , Ghent University <i>Modelling realistic nanoporous materials at operating conditions</i>
09:40 - 10:00	M. Asgari , University of Cambridge <i>Understanding the functionality of metal-organic frameworks in chemical separation and conversion applications</i>
10:00 - 10:20	J. Manning , University of Manchester <i>A new reporting standard for material syntheses for large-scale data exploration</i>
10:20 - 10:50	Coffee Break – TIC foyer
Session 6	Chair: Constantina Papatriantafyllopoulou
10:50 - 11:30	Andrew Goodwin , University of Oxford <i>Correlated Vacancy Disorder in Porous Crystals</i>
11:30 - 11:50	E. Salisbury , University of Warwick <i>Synthesis of porous GelMA polyHIPE scaffolds for 3D in vitro modelling</i>
11:50 - 12:10	A. Eskandari , University of Glasgow <i>Ultrasml curcumin nanoparticles loaded UiO-66/Zr metal organic framework to target pancreatic cancers</i>
12:10 - 12:30	G. P. Matthews , University of Plymouth <i>Nanopores integrated with macropores: modelling weight loss in nuclear reactor cores and the relative permeability of tight-oil shale</i>
12:30 - 13:50	Lunch – TIC foyer
Session 7	Chair: Rob Dawson
13:50 - 14:00	Ross Forgan , Glasgow University <i>Message from RSC Porous Materials Interest Group Chair + Poster Prizes</i>
14:00 - 14:20	G. Mínguez Espallargas , Universidad de Valencia <i>Semiconductor porous Hydrogen-bonded Organic Frameworks</i>
14:20 - 14:40	J. W. Gittins , University of Cambridge <i>Enhancing the Performance of Layered Metal-Organic Framework Supercapacitors by Coordination Modulation</i>
14:40 - 15:00	A. M. Lister , University of Oxford <i>Electrochemical Synthesis of Metal-Organic Frameworks for High Sensitivity Gas Sensing</i>
15:00 - 15:20	A. C. Wood , University of Sheffield <i>Phage display against a novel two-dimensional metal-organic nanosheet to demonstrate systematically tunable biosensors</i>
15:20 - 15:50	Coffee Break – TIC foyer
Session 8	Chair: Andrea Laybourn
15:50 - 16:10	C. Papatriantafyllopoulou , National University of Ireland Galway <i>NUIG MOFs: A Family of MOFs with Extraordinary Drug Delivery Properties</i>
16:10 - 16:30	R. Newar , IIT Delhi <i>Amino Acid-Functionalized Metal-Organic Frameworks for Asymmetric Base-Metal Catalysis</i>
16:30 - 16:40	M. Benson , Rigaku <i>Rigaku Advances in X-ray and Electron Crystallography</i>
16:40 - 17:20	María Giménez López , Universidade de Santiago de Compostela <i>A New Porous Supramolecular Liquid for Energy-Storage Applications</i>
17:20 - 17:25	Closing Remarks

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