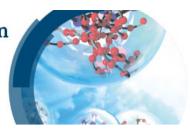
Faraday Discussion



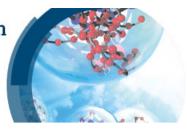
13-16 October 2020 Online

Please note all times in BST

Tuesday 13 October 2020

13:00	Welcome and Introductions
	Susumu Kitagawa and François-Xavier Coudert, co-Chairs of Scientific Committee
13:10	Outline of Discussion Format
	Caroline Knapp and Kirsten Hall, Royal Society of Chemistry Publishing Editors
13:15	Introductory Lecture (Session Chair: Susumu Kitagawa)
	Omar Farha
	Northwestern University, United States
14:15	Close of sessions

Faraday Discussion



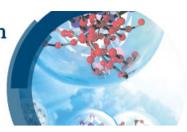
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Wednesday 14 October 2020

	Session 1: Advanced characterisation techniques: multi-scale, in situ, and time-resolved							
	(Session Chair: Christian Doonan)							
08:00	Molecular motion in the nanospace of a MOF upon gas adsorption investigated by in situ							
00.00	Raman spectroscopy							
	Ryotaro Matsuda							
	Nagoya University, Japan							
08:05								
00.00	Crystal Transformations							
	Christopher Sumby							
	University of Adelaide, Australia							
08:10								
	molecular simulations							
	Samantha Chong							
	University of Liverpool, UK							
08:15	Discussion							
09:15	Break							
	Session 2: Materials breaking the rules							
	(Session Chair: Masako Kato)							
09:45	The role of temperature and adsorbate on negative gas adsorption in the mesoporous							
	metal-organic framework DUT-49							
	Simon Krause							
	University of Groningen, Netherlands							
09:50	Cooperative phenomenon of vapochromism and proton conduction of luminescent Pt(II)							
	complexes for visualization of macroscopic proton conduction pathway							
	Atsushi Kobayashi							
00.55	Hokkaido University, Japan							
09:55	Face-selective adsorption of a prochiral compound on the chiral pore-surface of metal-							
	macrocycle framework (MMF) directed towards stereoselective reactions Shohei Tashiro							
	The University of Tokyo, Japan							
10:00	Discussion							
10.00	DISCUSSION							
11:00	Break							
11.00	Session 1 Continued: Advanced characterisation techniques: multi-scale, in situ, and							
	time-resolved							
	(Session Chair: Stefan Kaskel)							
11:30	Can 3D Electron Diffraction Provide Accurate Atomic Structures of Metal-Organic							
	Frameworks?							
	Zhehao Huang							
	Stockholm University, Sweden							
11:35	Multi-stimulus linear negative expansion of a breathing M(O ₂ CR) ₄ -node MOF							
	Lee Brammer							
	University of Sheffield, UK							
11:40	Discussion							
12:40	Lunch break							
	Session 2 Continued: Materials breaking the rules							

Faraday Discussion

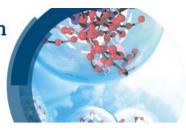


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	(Session Chair: Stefan Kaskel)						
13:40	Identifying the liquid and glassy states of coordination polymers and metal-organic						
	frameworks						
	Thomas Bennett						
	University of Cambridge, UK						
13:45	5 Trends in the Thermal Stability of Two-Dimensional Covalent Organic Frameworks						
	William Dichtel						
	Northwestern University, United States						
13.50 Function from configurational degeneracy in disordered frameworks							
	Andrew Goodwin						
	University of Oxford, UK						
13.55	Discussion						
14:55	Poster Session 1						
	Close of Sessions						
15:55	Close of Sessions						

Faraday Discussion



13-16 October 2020 Online

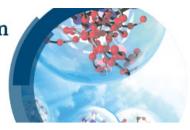
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Thursday 15 October 2020

	Session 3: Novel Computational Tools (Session Chair: François-Xavier Coudert, Masako Kato (part 2))
08:00	The micromechanical model to computationally investigate cooperative and correlated phenomena in metal-organic frameworks Sven Rogge Ghent University, Belgium
08:05	Cooperative and synchronized rotation in motorized porous frameworks: Impact on local and global transport properties of confined fluids Jack Evans TU Dresden, Germany
08:10	Discussion
08:50	Break
09:20	Atomistic insight in the flexibility and heat transport properties of the stimuli- responsive metal-organic framework MIL-53(AI) for water-adsorption applications using molecular simulations Veronique Van Speybroeck Ghent University, Belgium
09:25	Influence of Flexible Side-Chains on the Breathing Phase Transition of Pillared Layer MOFs: A Force Field Investigation Rochus Schmid Ruhr-Universität Bochum, Germany
09:30	Discussion
10:10	Poster Session 2
11.10	Close of Sessions

	Session 4: Towards complex systems and devices							
	(Session Chair: François-Xavier Coudert)							
13:00	Exploring the Dynamics of Zr-Based Metal-organic Frameworks Containing							
	Mechanically Interlocked Molecular Shuttles							
	Benjamin Wilson							
	University of Windsor, Canada							
13:05	Photoelectrochemical Alcohol Oxidation by Mixed-Linker Metal-Organic Frameworks							
	Amanda Morris							
	Virginia Tech, United States							
13:10	Adsorber heat exchanger using Al-fumarate beads for heat-pump application – a							
	transport study							
	David Farrusseng							
	CNRS, France							
13.15	Discussion							
14:15	Close of Sessions							

Faraday Discussion



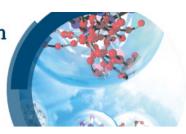
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Friday 16 October 2020

	Session 4: Towards complex systems and devices						
	(Session Chair: Christian Doonan)						
08:00	Crystal Melting and Vitrification Behaviors of the Three-Dimensional Nitrile-						
	Based Metal-Organic Framework						
	Satoshi Horike and Chinmoy Das						
	Kyoto University, Japan						
08:05	Inclusion of viologen cations leads to switchable metal-organic frameworks						
	Andrew Burrows, Laura Cadman and Mary Mahon						
	University of Bath, UK						
08:10	Discussion						
08:50	Closing remarks						
	Jianwen Jiang						
	National University of Singapore						
09:30	Acknowledgements						
	Scientific Committee						
09:40	Close of Meeting						

Faraday Discussion



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