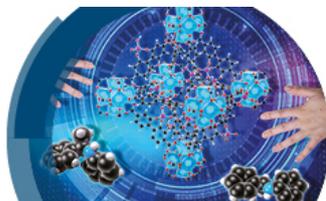


All times are BST

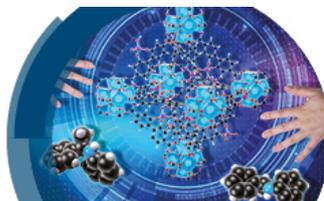
Wednesday 23 June

12:00	Welcome Martin Schröder, <i>University of Manchester</i>
12:10	Outline of Discussion format Eleanor Griffiths and Jack Washington, <i>Royal Society of Chemistry Publishing Editors</i>
12:15	Spiers memorial lecture (Session Chair: Stuart James, <i>Queens University Belfast, Ireland</i>) <u>Mike Zaworotko</u> , <i>University of Limerick</i>
13:00	Discussion
13:20	Break
	Session 1: Fundamental studies and design of MOFs (Session Chair: Stuart James, <i>Queen's University, Belfast</i>)
13:50	Monolithic metal-organic frameworks for carbon dioxide separation David Fairen-Jimenez, David Madden, Robin Babu, Ceren Camur, Nakul Rampal, Joaquin Silvestre-Albero, Teresa Curtin, <i>University of Cambridge</i>
13:55	On the Completeness of Three-Dimensional Electron Diffraction Data for Structural Analysis of Metal-Organic Frameworks <u>Zhehao Huang</u> , Meng Ge, Taimin Yang, Yanzhi Wang, Francesco Carraro, Weibin Liang, Christian Doonan, Paolo Falcaro, Haoquan Zheng, Xiaodong Zou, <i>Stockholm University</i>
14:00	Improved photodegradation of anionic dyes using a complex graphitic carbon nitride and iron-based metal-organic framework material <u>Huan Doan</u> , Xuan Nui Pham, Hoa Thi Nguyen, Valeska Ting, Shaoliang Guan, Jean-Charles Eloi, Simon Hall, <i>University of Bristol</i>
14:05	Discussion
15:05	Break
16:00	Strategic design and synthesis of star-shaped organic linkers for mesoporous MOFs <u>Rosa Fucci</u> , Christophe Vande Velde, <i>University of Antwerp</i>
16:05	Crystal growth of the core and rotated epitaxial shell of a heterometallic metal-organic framework revealed with atomic force microscopy Martin Attfield, Fajar Pambudi, Michael Anderson, <i>University of Manchester</i>
16:10	Discussion
	Session 2: RSC Prize and Award talk: 2020 Sustainable Water Award (Session Chair: Sihai Yang, <i>University of Manchester</i>)
16:50	Water Harvesting from Desert Air Explained from the 'Eye' of the Molecule" <u>Omar Yaghi</u> , Seungkyu Lee, <i>University of California, Berkeley</i>
17:20	Discussion
17:40	Close of formal sessions



Thursday 24 June

	Session 3: Applications and developments (Session Chair: Hoi Ri Moon, <i>Ulsan National Institute of Science and Technology</i>)
11:00	Substituent Effects on Through-Space Intervalence Charge Transfer in Cofacial Metal-Organic Frameworks Deanna D'Alessandro, Patrick Doheny, Carol Hua, Bun Chan, Floriana Tuna, David Collison, Cameron Kepert, <i>University of Sydney</i>
11:05	Chiral and Robust Zr(IV)-Based Metal-Organic Frameworks Built from Spiro Skeleton Yong Cui, Wei Gong, Yan Liu, <i>Shanghai Jiao Tong University</i>
11:10	Preparation of Hollow Metal-Organic Frameworks via Epitaxial Protection and Selective Etching Cheng Wang, Peican Chen, Jiawei Chen, Xuefu Hu, <i>Xiamen University</i>
11:15	Discussion
12:15	Break
	Session 4: Theory and modelling (Session Chair: Sihai Yang, <i>University of Manchester</i>)
12:45	Thermodynamic exploration of xenon/krypton separation based on a high-throughput screening François-Xavier Coudert, Emmanuel Ren, <i>Institut de Recherche de Chimie, Paris</i>
12:50	The application of machine learning for predicting methane uptake and working capacity of MOFs Mikhail Suyetin, <i>Karlsruhe Institute of Technology</i>
12:55	A high-throughput computational screening of porous materials for biogas purification Elena Besley, Joseph Glover, <i>University of Nottingham</i>
13:00	Discussion
14:00	Break
	Session 5: Applications and developments (Session Chair: Simon Humphrey, <i>University of Texas at Austin</i>)
14:30	Photoresponsive Frameworks: Energy Transfer in the Spotlight Natalia B. Shustova, Corey Martin, Kyoung Chul Park, Ryan Corkill, Preecha Kittikhunnatham, Gabrielle Leith, Abhijai Mathur, Sakiru Abiodun, Andrew Greytak, <i>University of South Carolina</i>
14:35	Understanding entrapped molecular photosystem and metal-organic framework synergy for improved solar fuel production Philip Stanley, Roland Fischer, Mykhaylo Parkulab, Bernhard Rieger, Julien Warnan, <i>Technical University of Munich</i>
14:40	Why conductivity is not always king – physical properties governing the capacitance of 2-D Metal-Organic Framework - based EDLC supercapacitor electrodes: Ni₃(HITP)₂ as a case study Mircea Dinca, Michal Borysiewicz, Jinhu Dou, Ivo Stassen, <i>Massachusetts Institute of Technology</i>
14:45	Discussion
15:45	Flash posters and poster session I
17:00	Close of formal sessions



Friday 25 June

11:00	Flash posters and poster session II
12:00	Break
	Session 6: Commercialisation and applications (Session Chair: Qiaowei Li, <i>Fudan University</i>)
12:15	Towards MOFs' mass market adoption: MOF Technologies' efficient and versatile one-step extrusion of shaped MOFs directly from raw materials <u>Jose Casaban</u> , Yuancheng Zhang, Raul Pacheco, Ciaran Coney, Catherine Holmes, Emmajay Sutherland, Conor Hamill, John Breen, Stuart James, Diego Tufano, Dennis Wong, Efstratios Stavrakakis, Hamza Annath, Ashleigh Moore, <i>MOF Technologies</i>
12:20	MOF industrialization: a complete assessment of production costs <u>Christian Serre</u> , Marie Ines Severino Neves, Effrosyni Gkaniatsou, Farid Nouar, Moisés Pinto <i>ENS Paris</i>
12:25	Esterification catalyzed by efficient solid acid synthesized from PTSA and UiO-66(Zr) for biodiesel production <u>Hui Li</u> , Zhihao Han, Fengsheng Liu, Guoning Li, Min Guo, Ping Cui, Shoujun Zhou, Mingzhi Yu, <i>Shandong Jianzhu University</i>
12:30	Discussion
13:30	Break
14:00	Towards improving the antibiotic elimination capacity of UiO-66 from contaminated water <u>Patricia Horcajada</u> , Sara Rojas, Ana Torres, Victor Dato, Fabrice Salles, David Ávila-Brandé, Jessica García-González <i>Instituto IMDEA Energía, Madrid</i> .
14:05	Effect of linker functionalisation on the catalytic properties of Cu nanoclusters embedded in MOFs in direct CO and CO₂ reduction by H₂ <u>Petra Szilagyí</u> , Cornelia Pompe, <i>Queen Mary University of London</i>
14:10	Discussion
14:50	Concluding Remarks Lecture (Session Chair: Simon Humphrey, <i>University of Texas at Austin</i>) <u>Susumu Kitagawa</u> , <i>University of Kyoto</i>
15:40	Claire Vallance <i>President, Faraday Division</i>
15:50	Acknowledgements and poster prize announcement (Martin Schröder, <i>University of Manchester</i>)
16:00	Close of meeting

Presenting authors are indicated in the programme by an underline. The affiliation is for the presenting author. If the presenting author of your paper has changed since abstract selection please email events@rsc.org. Please note that this is a draft programme and timings may change.