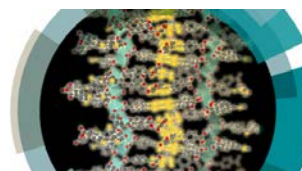


New Directions in Porous Crystalline Materials

Faraday Discussion



Monday 5 June

11:00	Registration, Tea and Coffee	
12:00	Lunch	
12:45	Welcome and Introductions Mircea Dinca <i>Chair of Scientific Committee</i>	
12:55	Outline of Discussion Format <i>Royal Society of Chemistry Publishing Editors</i>	
13:00	Introductory Lecture (Session Chair: Mircea Dinca) Omar Yaghi <i>University of California, Berkeley</i>	
	Session 1 Electronic, Magnetic, and Photophysical Properties of MOFs and COFs (Session Chair: Christopher Hendon)	
14:00	Functionalized Metal Organic Frameworks for Effective Capture of Radioactive Organic Iodides Baiyan Li, Xinglong Dong, Hao Wang, Dingxuan Ma, Kui Tan, Zhan Shi, Yves J. Chabal, Yu Han, <u>Jing Li</u> <i>Rutgers University</i>	Paper 12726
14:05	Facile synthesis of an ultra-stable metal–organic framework with excellent acid and base resistance Nian Zhao, Ping Li, Xin Mu, Chuanfang Liu, Fuxing Sun, <u>Guangshan Zhu</u> <i>Jilin University, Changchun</i>	Paper 13158
14:10	Harvesting the photoexcited holes on a photocatalytic proton reduction metal–organic framework J. G. Santaclara, A. I. Olivos-Suarez, I. du Fossé, A. Houtepen, J. Hunger, F. Kapteijn, J. Gascon, <u>M. A. van der Veen</u> <i>Delft University of Technology</i>	Paper 13242
14:15	Discussion	
15:30	Afternoon tea	
	Session 2 New Directions in gas sorption and separation with MOFs (Session Chair: Nathaniel Rosi)	
16:00	Cyclic gas-phase heterogeneous process in a metal–organic framework involving a nickel nitrosyl complex D. Denysenko, <u>Dirk Volkmer</u> <i>University of Augsburg</i>	Paper 13057
16:05	Study of the scale-up, formulation, ageing and ammonia adsorption capacity of MIL-100(Fe), Cu-BTC and CPO-27(Ni) for use in respiratory protection filters <u>S. Hindocha</u> , S. Poulston <i>Johnson Matthey Technology Centre</i>	Paper 13004
16:10	Discussion	
17:00	Lightning presentations (by invitation of the scientific committee)	
17:30	Poster Session and Wine Reception (Even numbers)	

Tuesday 6 June

	Session 2 (continued) New Directions in gas sorption and separation with MOFs (Session Chair: Omar Farha)	
09:00	Minimal edge-transistive nets for the design and construction of metal-organic framework Zhijie Chen, Hao Jiang, Michael O'Keeffe, <u>Mohamed Eddaoudi</u> <i>King Abdullah University of Science and Technology and University of South Florida</i>	Paper 12723
09:05	UiO-66-(SH)₂ as stable, selective and regenerable adsorbent for the removal of mercury from water under environmentally-relevant conditions <u>Karen Leus</u> , Jeffrey Paulo H. Perez, Karel Folens, Maria Meledina, Gustaaf Van Tendeloo, Gijs Du Laing, Pascal Van Der Voort <i>Ghent University</i>	Paper 12901
09:10	Ternary gradient metal-organic frameworks Chong Liu, <u>Nathaniel L. Rosi</u> <i>University of Pittsburgh</i>	Paper 13228
09:15	Discussion	
10:30	Morning Tea	
	Session 3 MOFs Modeling and Theory (Session Chair: Aron Walsh)	
11:00	Tuning the properties of metal-organic framework nodes as supports of single-site iridium catalysts: node modification by atomic layer deposition of aluminium Dong Yang, Mohammad R. Momeni, Hakan Demir, Dale R. Pahls, Martino Rimoldi, Timothy C. Wang, Omar K. Farha, Joseph T. Hupp, Christopher J. Cramer, Bruce C. Gates, <u>Laura Gagliardi</u> <i>University of Minnesota</i>	Paper 12724
11:05	Designing porous electronic thin-film devices: Band offsets and heteroepitaxy <u>Keith T. Butler</u> , Christopher H. Hendon, Aron Walsh <i>University of Bath</i>	Paper 13244
11:10	Efficiently mapping structure-property relationships of gas adsorption in porous materials: Application to Xe adsorption A. R Kaija, <u>C. E. Wilmer</u> <i>University of Pittsburgh</i>	Paper 13199
11:15	Discussion	
12:30	Lunch	
	Session 4 Catalysis in MOFs (Session Chair: Mircea Dinca)	
14:00	Structure-property-activity relationships in a pyridine containing azine-linked covalent organic framework for photocatalytic hydrogen evolution <u>Frederik Haase</u> , Tanmay Banerjee, Gökçen Savasci, Christian Ochsenfeld, Bettina V. Lotsch <i>Max Planck Institute for Solid State Research</i>	Paper 12725
14:05	Tuning the Pt sites population inside UiO-67-Pt MOF by controlling activation conditions L. Braglia, E. Borfecchia, K. A. Lomachenko, A. L. Bugaev, A. A. Guda, A. V. Soldatov, B. T. Lønstad-Bleken, S. Øien-Ødegaard, U. Olsbye, K. P. Lillerud, S. Bordiga, G. Agostini, M. Manzoli, <u>C. Lamberti</u> <i>University of Turin</i>	Paper 13192

14:10	Assembly of Dicobalt and Cobalt-Aluminum Oxide Clusters on Metal-Organic Framework and Nanocast Silica Supports Sai Puneet Desai, Camille D. Malonzo, Thomas Webber, Jiaxin Duan, Anthony B. Thompson, Stephen J. Tereniak, Matthew R. DeStefano, Cassandra T. Buru, Zhanyong Li, R. Lee Penn, Omar K. Farha, Joseph T. Hupp, Andreas Stein, <u>Connie C. Lu</u> <i>University of Minnesota</i>	Paper 13249
14:15	Discussion	
15:30	Afternoon Tea	
16:00	Phenanthroline-based metal–organic frameworks for Fe-catalyzed C_{sp}³–H amination Nathan C. Thacker, Pengfei Ji, Zekai Lin, Ania Urban, <u>Wenbin Lin</u> <i>University of Chicago</i>	Paper 12727
16:05	Enhancing the biofuel upgrade performance for Pd nanoparticles via increasing the support hydrophilicity of metal–organic frameworks Qi Sun, Meng Chen, Briana Aguila, Nicholas Nguyen, <u>Shenggian Ma</u> <i>University of South Florida</i>	Paper 13205
16:10	Discussion	
17:00	Poster Session and Wine Reception (Odd numbers)	
19:15	Conference Dinner	

Wednesday 7 June

	Session 4 (concluding) Catalysis in MOFs (Session Chair: David Harris)	
09:00	In-MOFs based on amide functionalised flexible linkers J. Haddad, G. F. S. Whitehead, A. P. Katsoulidis, <u>M. J. Rosseinsky</u> <i>University of Liverpool</i>	Paper 12729
09:05	Addressing the Characterisation Challenge to Understand Catalysis in MOFs: The Case of Nanoscale Cu Supported in NU-1000 Ana E. Platero-Prats, Zhanyong Li, Leighanne C. Gallington, Aaron W. Peters, Joseph T. Hupp, Omar K. Farha and <u>Karena W. Chapman</u> <i>Argonne National Laboratory</i>	Paper 13256
09:10	Ethylene oligomerization in metal–organic frameworks bearing nickel(II) 2,20-bipyridine complexes Miguel I. Gonzalez, Julia Oktawiec, <u>Jeffrey R. Long</u> <i>University of California</i>	Paper 12728
09:15	Discussion	
10:30	Morning Tea	
11:00	Concluding Remarks Lecture (Session Chair: Mircea Dinca) Susumu Kitagawa <i>Kyoto University</i>	
11:40	Acknowledgements	
11:45	Close of meeting and Lunch	

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.