	Sunday, September 21
14:00-18:00	Registration
18:00-18:15	Andreas & Maria Kalokerinou Hall Welcome
18:15-19:00	Plenary 1 **Omar Yaghi** Reticular Chemistry in the Age of AI
19:00-19:45	Plenary 2 **Susumu Kitagawa** Chemistry and Application of Dynamic MOF/PCP Beyond Rigidity and into the Realm of Soft Porous Crystals
19:45-20:30	Introduction of Sponsors & Exhbitors
20:30-22:30	Welcome reception

	Monday, September 22		
08:30-09:15	Plenary 3 - Andreas & Maria Kalokerinou Hall **Andrew Cooper** Non-Metal Organic Frameworks (N-MOFs): Apohosts or Apotheosis?		
	Andreas & Maria Kalokerinou Hall	Concert Hall	Experimental Stage
Chairs:			
09:20-09:50	Keynote **Matthew Rosseinsky** Ordering chemical functionality in porous materials for function	Keynote **Xiaodong Zou** Emerging electron diffraction techniques advance the characterization of porous materials: high-throughput, high-resolution and time-resolved	Keynote **Veronique Van Speybroeck** New frontiers in modeling adsorption in metal-organic frameworks accounting for flexibility and accurate intermolecular interactions
09:50-10:50	COFFE BREAK + POSTER SESSION I		
10:50-11:15	Invited **Stuart L. James** Porous Liquids: CO_2 capture and the importance of the porogen-liquid interface	Invited **Kasper S. Pedersen** Reticular design of quantum materials: Emergent properties in metal–organic nets	Invited **Theodore Steriotis** Novel metal-organic framework adsorbents for efficient storage of hydrogen
11:15-11:40	Invited **Felipe Gándara** Controlled incorporation of multiple metals into MOFs: Strategies to enhance chemical and structural complexity	Invited **Margarita Costa Gomes** Porous ionic liquids from stable MOF suspensions: What they are, how they work, and why they matter	Invited **Natalia M. Padial** Synergistic effect in heterometallic titanium-organic frameworks in catalysis
11:40-11:55	**Yueting Sun** Stabilise compressible liquids by hydrophilic mesopores	**Zhehao Huang** Revealing invisibles: Analysis of framework materials by 3D electron diffraction	**Taner Yildirim** Cheap and effective: aluminum formate (ALF) as the ultimate simplest mof for carbon capture, gas separation, and long-duration hydrogen storage
11:55-12:10	**Lauren N. McHugh** Controlling the Functionality of Hybrid Glasses	**Michael Wharmby** Understanding structural complexity in M-CAU-64, as a function of temperature and humidity, using laboratory X-Ray diffraction methods	**Ritesh Haldar** Tailored molecular diffusion in nanoporous material for separation and catalysis
12:10-12:25	**Wenlong Xue** The Intimate Relationship Between Mechanochemistry and MOF Glasses	**Stefano Canossa** Disorder structure determination by 3D pair distribution function analysis: the case study of UoB-100(Dy)	**Marco Ranocchiari** Adsorption-driven catalysis in metal-organic frameworks
12:25-12:40	**Ken Inge** Rapid development of a vast family of ionic MOF structures facilitated by structure-directing agents and 3D electron diffraction	**Pascal D. C. Dietzel** Direct observation of the dehydration of a metal hydroxido cluster to a metal oxido cluster in a metal-organic framework	**Pradip Pachfule** Harnessing the sunlight for photocatalytic water splitting

12:40-12:55	**Constanze N. Neumann** Controlling the spatial arrangement of active sites in heterogeneous catalysis	**Vitaly Sushkevich** Controlling the Mechanism of Nucleation and Growth Enables Synthesis of UiO-66 Metal–Organic Framework with Desired Macroscopic Properties	**Maite Perfecto-Irigaray** Tailored Ti-based metal-organic aerogels: a versatile platform for post-synthetic doping and photocatalytic hydrogen production
12:55-13:10	**Sascha Ott** Electron hopping through metal-organic frameworks: fundamentals and applications	**Frédérique Pourpoint** Stability of MOF in presence of water: new insights from high-field solid-state nmr	**Jana Vojcikova** Tailored immobilization of oxidation enzymes onto metal-organic frameworks (mof) to synthesize stable bio-heterogeneous catalysts for methane-to-methanol
13:10-14:30	**Lunch**		
14:30-15:15	**Plenary 4 - Andreas & Maria Kalokerinou Hall** **Len Barbour** Unravelling transient porosity: Structural and thermodynamic insights into flexible porous materials		
	Andreas & Maria Kalokerinou Hall	**Concert Hall**	**Experimental Stage**
Chairs:			
15:20-15:50	**Keynote 4** **Stefan Kaskel** Electroactive Metal-Organic Frameworks for Sensing, Electrocatalysis and Iontronics	**Keynote 5** **Guillaume Maurin** Advancing MOF Simulations with Machine-Learned Potentials	**Keynote 6** **Dan Zhao** Advanced porous materials for liquid separation membranes
15:50-16:15	**Invited** **Andrea Laybourn** Microwave and flow processing for sustainable synthesis of metal-organic frameworks and composites	**Invited** **Ilknur Erucar** Computational modelling strategies for GAS separation in COF adsorbents and membranes	**Invited** **Yue-Biao Zhang** Dynamic covalent organic frameworks for solar energy harvesting and photocatalysis
16:15-17:15	**COFFE BREAK + POSTER SESSION II**		
17:15-17:40	**Invited** **Jin-Chong Tan** Mechanical properties of MOF crystals and monoliths	**Invited** **François-Xavier Coudert** Using framework topology and pore network to better understand framework materials	**Invited** **Pascal Van Der Voort** Covalent organic frameworks - understanding the photocycle for advanced photocatalysis
17:40-17:55	**Sabine Devautour-Vinot** Metal-organic frameworks (MOFs) for capturing and sensing volatile organic Compounds (VOCs) in indoor air	**Joachim Sauer** Accurate ab initio prediction of adsorption isotherms for water in mofs	**Karl Börjesson** Synthesis of three-dimensional covalent organic framework films and their electroactivity
17:55-18:10	**Ken-ichi Otake** Tuning adsorption kinetics for selective Gas separation in flexible MOFs	**Logan Brabson** The open DAC project: Datasets and Models for Sorbent Discovery in Direct Air Capture	**Gobinda Das** Stimuli responsive Covalent Organic Frameworks (COFs)
18:10-18:25	**Julia Duplessis-Kergomard** Characterization of shaped flexible mofs for GAS separation	**Eleanor M. Soper** Dynamics and conformational energetics of guest molecules in crystalline sponges	**Eun Seon Cho** Asymmetric Pore Engineering in Covalent Organic Framework for Ion Exchange Membranes

18:25-18:40	**Hirotoshi Sakamoto** A soft beginning: revisiting the first pcp to reveal its hidden flexibility	**Andreas Mavrandonakis** Computational elucidation of pollutant binding mechanisms in functionalized ZR-MOFS	**Laura Salonen** Synthesis strategies to π-extended covalent organic frameworks
18:40-18:55	**Javier García Ben** Unveiling the caloric response of flexible mofs under vacuum: a new avenue for eco-friendly refrigeration	**Wim Temmerman** Negative thermal expansion of a mixed-linker Zr-MOF system	**Safiya Khalil** High-throughput synthesis of COFs for sustainable applications
18:55-19:40	**Plenary 5 - Andreas & Maria Kalokerinou Hall** **Silvia Bordiga** Combining spectroscopies and molecular modelling to disclose complexity in MOFS		

	Tuesday, September 23		
08:30-09:15	Plenary 6 - Andreas & Maria Kalokerinou Hall **Mohamed Eddaoudi** Reticular chemistry: The design journey from highly-connected building blocks to merged nets		
	Andreas & Maria Kalokerinou Hall	Concert Hall	Experimental Stage
09:20-09:50	Keynote 7 **Mircea Dincă** Water stability in MOFs: from principles to practice	Keynote 8 **Daniel Maspoch** Breaking bonds, building chemistry	Keynote 9 **Bettina Lotsch** Pores of Opportunity: Redox Conductivity and Optoionics in COFs
09:50-10:50	COFFE BREAK + POSTER SESSION III		
10:50-11:15	Invited **Katherine A. Mirica** Smart membranes for simultaneous detection, filtration and detoxification of hazardous gases	Invited **Joaquin Silvestre-Albero** Molecular recognition-induced structural flexibility in ZIFs	Invited **Ana E. Platero-Prats** Structure meets function: Porous networks engineered for environmental impact
11:15-11:40	Invited **Rie Makiura** MOF and HOF nanosheet crystals assembled at the air/water interface: Unique structures and gas sorption/electronic properties	Invited **Hamish Yeung** Investigations into Intermediate Species in Zeolitic Imidazolate Framework Formation	Invited **Marco Daturi** Room temperature reduction of Nitrogen oxide on iron metal-organic frameworks
11:40-11:55	**Thomas Bein** Modulating optoelectronic processes in covalent organic frameworks	**Qiaowei Li** Hybrid Frameworks with Multiple Kinds of Linkages	**Emmanouil Manos** Sulfur-functionalized Zr4+ MOFs for capture and recovery of gold ions and gold nanoparticles
11:55-12:10	**Bibhuti Bhusan Rath** Insights into decoupled solar energy conversion and charge storage in a 2D covalent organic framework for solar battery function	**Vincent Guillerm** Centring structure directing agents for MOFs design: concept, challenges and opportunities	**Hashim Alhashimi** Continuous flow synthesis of highly stable, water-based MOFs for efficient toxic GAS capture
12:10-12:25	**Jerome Canivet** Stabilizing supramolecular from assembly within porous organic polymer matrix for water oxidation reaction	**José G. Planas** changing metal sequences in multivariate metal-organic frameworks incorporating carborane ligands	**Sachin Maruti Chavan** Metal-organic framework for critical metal separation
12:25-12:40	**Mariana Kozlowska** Enhancement of two-photon absorption in metal-organic frameworks via synergistic effects induced by assembly	**Wonyoung Choe** Data-Driven Discovery of Reticular Materials	**Mariangela Oggianu** A novel anilato- based family of 3D MOFs for environmental applications
12:40-12:55	**Hidetsugu Shiozawa** Charge transfer mechanisms in single-crystal growth and battery applications of metal-organic frameworks	**Zhijie Chen** Reticular chemistry for functional crystalline porous frameworks	**Ajay Padunnappattu** Scalable metal phosphonate for the capture of acid molecules under industrial-relevant conditions

12:55-13:10	**Raquel Ribeiro** Alkaline Stable Metal Organic Frameworks for Energy Applications	**Kenichi Endo** MOCOFs: Reticular intersection of MOF and COF chemistry toward elevated crystallinity, stability, and complexity	**Jin Yeong Kim** Colorimetric detection of colorless acid vapors using a MOF-based sensor		
13:10-14:30	**Lunch**				
14:30-15:15	**Plenary 7 - Andreas & Maria Kalokerinou Hall** **Omar Farha** Nano solutions for global challenges: The promise of metal-organic frameworks				
	Andreas & Maria Kalokerinou Hall	**Concert Hall**	**Experimental Stage**	**Seminar Room**	
				Industrial Session	
15:20-15:50	**Keynote 10** **Christian Serre** Photoactive metal organic frameworks for hydrogen production	**Keynote 11** **Angiolina Comotti** From framework-dynamics engineering to scintillation properties as demonstrated by solid state NMR and synchrotron source X-Ray diffraction	**Keynote 12** **Arne Thomas** Tailoring catalytic surfaces of and with covalent organic frameworks	**15:20-15:40**	**William Morris** Metal-organic frameworks at Numat: A decade of innovation, high-tech manufacturing, and future growth **NuMat**
				15:40-16:00	**Charles Toft** Development & scaleup of novel MOF materials for CO_2-capture **novoMOF**
15:50-16:15	**Invited** **Dominik Eder** 2D SBUs and open metal sites in MOF-based photo/electrocatalysis	**Invited** **Jia Min Chin** Electric-field manipulation of MOF and COF colloids for enhanced perfor-mances and dynamic structural color	**Invited** **Keskin Avci** Harnessing molecular modeling, machine learning, and experiments for the design and discovery of Novel MOFs	**16:00-16:20**	**Thomas Michon** MOF scale-up synthesis by spray-drying **Axel'One**
16:15-17:15	**COFFE BREAK + POSTER SESSION IV**				
17:15-17:40	**Invited** **Anastasios Tasiopoulos** Modulation of the temperature and GAS sensing properties of new metal–organic frameworks based on hexanuclear rare earth secondary building units through single-crystal-to-single-crystal transformation reactions	**Invited** **Yong Cui** Crystallizing chirality—single crystals of hybrid porous materials	**Invited** **Manuel Souto** Electroactive framework materials for energy storage: redox-active COF-based electrodes and proton-electron dual-conductive MOF	**17:15-17:35**	**Miriam Perbet** A scalable, robust, single-step synthesis for Al-fumarate and MIL-160 **MOFapps**

17:40-17:55	**Georges Mouchaham** Microporous al-mof for CO_2 capture: from fundamental studies to large scale synthesis and lab-pilot testing	**Jose Maria Pedrosa** Tailored functional metal-organic frameworks for enhanced optical GAS sensing	**Susana Garcia** Unlocking the potential of physisorption for direct air capture via the PrISMa platform	**17:35-17:55**	**Selina Ambrose** Making Tonnes of MOF: industrial scale production of aluminium fumarate **Promethean Particles**
17:55-18:10	**Soraia Fernandes** Amino acid-based metal-organic frameworks derivatives for direct air capture: toward net zero CO_2 emissions	**Mario Gutierrez Tovar** Luminescent MOFs for fluorochromic detection of multiple external stimuli	**Yoichi Murakami** 2.5-dimensional covalent organic frameworks: the structure and superior CO_2 capture properties	**17:55-18:15**	**Ignacio Luz** Studying the operability of mosaic materials MOF-based direct air capture systems **Mosaic Materials – a Baker Hughes Company**
18:10-18:25	**Sebastian Ehrling** Breathing easier: can adsorbents help capture CO_2 Indoors?	**Andrea Rossin** Thiazole-, thiophene- and selenophene-containing zirconium mixmofs as luminescent sensors and adsorbents of persistent organic pollutants in wastewater	**Gwilherm Nénert** In-situ investigation of water harvesting by CAU-10-OH metal organic framework: A 2-step process	**18:15-18:35**	**Nima Mosoumifard** Scaling and structuring MOF sorbents – from lab to industrial level **Svante**
18:25-18:40	**Ferdinando Costantino** Al-fumarate analogue MOFs based on C4 linkers with different functionalities. Structural insights and CO_2 adsorption properties	**John Stride** Rare earth MOFs in potential cancer therapies	**Soumya Mukherjee** Crystal engineering of azolate coordination networks for cleaning air and freshwater	**18:35-18:55**	**Round Table**
18:40-18:55	**Guy De Weireld** Pilot-scale testing of al-mof for post-combustion CO_2 capture at technology centre mongstad (TCM)	**Sara Rojas** Environmental remediation and rational use of MOFs in agriculture	**Stavroula Kampouri** Design of a MOF featuring an aliphatic carboxylate linker for lithium-ion transport in solid-state batteries		
20:00	**Conference Dinner**				

Wednesday, September 24

	Andreas & Maria Kalokerinou Hall	Concert Hall	Experimental Stage
08:30-09:15	**Plenary 8 - Andreas & Maria Kalokerinou Hall** **Randall Snurr** Insights into adsorption of water in metal-organic frameworks from molecular simulation		
09:20-09:50	**Keynote 13** **Berend Smit** AI-driven design of MOFs for carbon capture	**Keynote 14** **Nathalia Steunou** Tailoring the morphology of Mof nanocrystals by using self-assembled materials	
09:50-10:50	**COFFE BREAK**		
10:50-11:05	**Lorenzo Dona** Cost-effective hybrid DFT methods to address size and complexity in Metal-Organic Frameworks	**Valentina Crocellà** Tuning adsorption-induced breathing: How fluorination redefines flexibility in MIL-53(AL)	**Emmanuel Giannelis** Development of electrocatalysts from topotactic transformation of MOFs
11:05-11:20	**Florian Lindner** Investigation of MOF-Mechanics with Brillouin light scattering and machine-learned interatomic potentials	**María Gelpi** Chemical-engineering of the breathing-caloric effects in MOFs: Solid transitions, GAS adsorption and hydrogen-bonding	**Barbara Centrella** Tailored Integration of a Cu(I) Catalytic Site into UiO-67 for Oxygenation Reactions
11:20-11:35	**Ana Claudia Fingolo** Experimental validation of a multi-scale simulation model for optical properties of chiral SURMOFs	**Pritam Banerjee** In-situ TEM investigation of phase transitions in zeolitic imidazolate frameworks under working conditions	**Alexandre Legrand** Textile functionalized by metal-organic cages for the capture and degradation of chemical warfare agents
11:35-11:50	**Kazuki Ohshima** Development of two-component liquid-phase adsorption simulation of drug adsorption in MOFs	**Danilo Marchetti** Exploring the reversible dynamical behaviour of nanocrystalline interpenetrated diamondoid metal-organic frameworks	**Cornelia von Baeckmann** Metal-Organic Materials from MOPs to MOFs and meltable materials
11:50-12:05	**Evelyn Ploetz** Decoding water sorption in MOFs: single-crystal insights from spectroscopy and modeling	**Matjaz Mazaj** Functionalized triazolate-based MOFs for enhanced diluted CO2 capture	**Subhajit Dutta** Cradle-to-gate environmental impact assessment of commercially available metal-organic frameworks manufacturing
12:10-12:55	**Plenary 9 - Andreas & Maria Kalokerinou Hall** **Jing Li** The beauty of crystalline hybrid materials: From crystal engineering to device fabrication		
12:55-13:10	**BEST POSTER AND ORAL PRESENATION AWARDS**		
13:10-13:30	**CLOSING CEREMONY**		