

6th European Conference on Metal Organic
Frameworks and Porous Polymers

EUROMOF

PROGRAMME



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21-24 September

2025

Heraklion
Crete-Greece

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Heraklion

Dear Ladies and Gentlemen,

We are delighted to welcome you to the 6th European Conference on Metal Organic Frameworks and Porous Polymers (EuroMOF2025).

Building on the success of previous conferences held in Potsdam (2015), Delft (2017), Paris (2019), Krakow (2021), and Granada (2023), EuroMOF2025 continues to serve as a premier platform showcasing the dynamic progress in the fascinating and important area of MOFs and related porous materials in Europe and beyond.

This year, we are excited to bring the conference to the beautiful island of Crete, in Heraklion, Greece, from Sunday 21th to Wednesday 24th September 2025.

Our program promises an impressive stellar lineup of internationally renowned speakers who will present Plenary, Keynote, and Invited lectures, offering cutting-edge insights into both the current state and future directions of this rapidly evolving field.

The event will feature Thematic Sessions covering all dimensions of MOFs and related materials—from fundamental synthesis to industrial-scale applications.

In addition, the Young Scientist Symposium (YSS) preceding EuroMOF2025 will provide a dedicated platform for the next generation of researchers to shape the future of the field. Owing to the high demand, this year's YSS will be extended to one and a half days, beginning at noon on Saturday, September 20, and concluding on the evening of Sunday, September 21.

At EuroMOF2025, an Industrial Session will take place on Tuesday, September 23, where leading industry representatives will showcase the latest developments and discuss the key challenges in the commercialization and large-scale implementation of MOFs.

As always, we remain committed to fostering an inclusive, welcoming environment. Our organizing committee and all our speakers, from Plenary to Oral communications and poster presentations, will reflect a strong commitment to gender balance and diversity. Discrimination based on ethnicity, sexual orientation, or belief has no place at EuroMOF2025.

We eagerly anticipate your participation in Heraklion and your contribution to making EuroMOF2025 an outstanding success!

Warm regards,

The EuroMOF2025 Conference Chairs

Pantelis N. Trikalitis

George E. Froudakis



LOCAL ORGANIZING COMMITTEE

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Prof. George E. Froudakis, *Dept. of Chemistry, University of Crete*

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GENERAL INFORMATION

VENUE ADDRESS

Cultural and Conference Center of Heraklion

Address:

Stratigou Plastira Nikolaou Avenue & Romanou Georgiou Street

71201, Heraklion Crete

<https://www.cccc.gr/en>

INTERNET ACCESS

Wi-Fi access is available for free at the conference venue.

Network: conference

Code: 2025@2025

BOOK OF ABSTRACT

A book of abstracts from all lectures and posters is available online at conference website with your credentials.

POSTER PRIZES

16 posters will be awarded, sponsored by:



POSTER & SOCIAL EVENTS

REGISTRATION – WELCOME RECEPTION

Registrations will be open on Sunday, September 21 from 14:00 to 18:00. In the same evening, you are cordially invited to a welcome reception from 20:30 to 22:30 with selected finger food and cold drinks.

POSTER SESSIONS

Four poster sessions have been included in the program

- Poster Session I, Monday, September 22 at 9:50 - 10:50
Posters will be put up before the coffee break and may remain there until 15 minutes before the end of the lunch break.
- Poster Session II, Monday, September 22 at 16:15 - 17:15
Posters will be put up before the coffee break and will remain during the welcome reception.
- Poster Session III, Tuesday, September 23 at 09:50 - 10:50
Posters will be put up before the coffee break and may remain there until 15 minutes before the end of the lunch break.
- Poster session IV, Tuesday, September 23 at 16:15 - 17:15
Posters will be put up before the coffee break and will remain until the end of Wednesday's coffee break.

Blu-Tac & scotch tape will be provided in the poster board area for poster display.

The presenters are responsible for mounting and removal of their posters. They are expected to be available at their poster for discussion during their assigned session.

GALA DINNER

The Gala Dinner will be held on 23 September at Akti, Karteros Beach, and will feature traditional cuisine, live music, and dancing. Participants who have not yet secured a ticket may do so via the conference website (under Registrations) no later than Sunday, 21 September, at midnight. Transportation will be provided for all attendees, with buses departing from the conference venue at 20:00. **All participants must present the Gala Dinner ticket they have purchased in order to attend.**

Participants with special dietary preferences must have declared them in advance and obtain a special voucher from the conference secretariat. This voucher should be placed on their plate upon being seated. Don't forget to bring with you a light jacket.

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Sunday, September 21

14:00-18:00	Registration
	Andreas & Maria Kalokerinou Hall
Chairs:	Pantelis Trikalitis, George Froudakis
18:00-18:15	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 & Exhibitors
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? Chair: Mohamed Eddaoudi		
	Andreas & Maria Kalokerinou Hall	Concert Hall	Experimental Stage
Chairs:	Stuart L. James	Kasper S. Pedersen	Simona Galli
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	COFFEE BREAK + POSTER SESSION I		
Chairs:	Angiolina Comotti	Xiaodong Zou	Anastasios Tasiopoulos
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 Chair: Valentina Colombo		
	Andreas & Maria Kalokerinou Hall	Concert Hall	Experimental Stage
Chairs:	Jin-Chong Tan	François-Xavier Coudert	Pascal Van Der Voort
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	COFFEE BREAK + POSTER SESSION II		
Chairs:	Rie Makiura	Ilknur Erucar	Yue-Biao Zhang
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	Hirotoishi 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 Chair: Randall Snurr		



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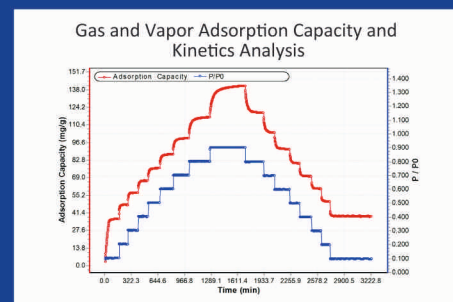
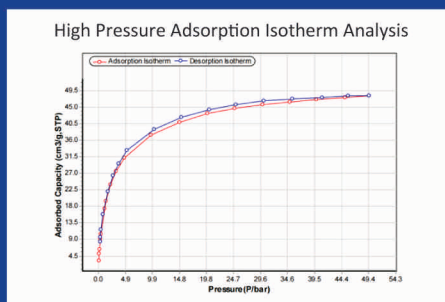
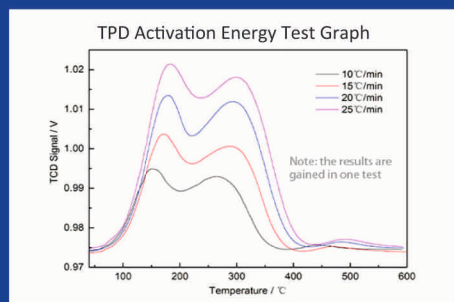
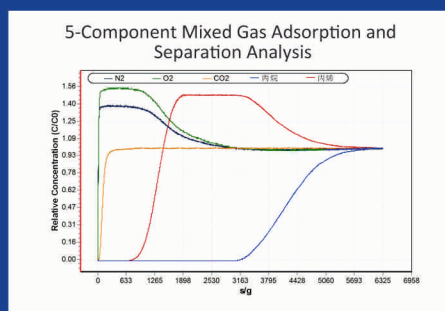
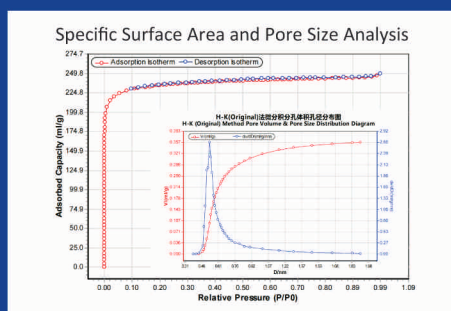
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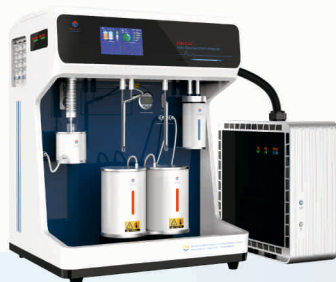
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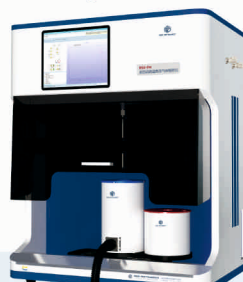
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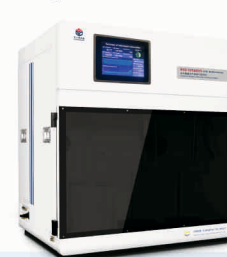
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Tuesday, September 23

	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 Chair: Christiane Serre		
	Andreas & Maria Kalokerinou Hall	Concert Hall	Experimental Stage
Chairs:	Katherine A. Mirica	Joaquin Silvestre-Albero	Dan Zhao
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		
Chairs:	Sascha Ott	Daniel Maspoch	Felipe Gándara
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 Qiaowei Li Hybrid Frameworks with Multiple Kinds of Linkages	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	Vincent Guillerm Centring structure directing agents for MOFs design: concept, challenges and opportunities	Emmanouil Manos Sulfur-functionalized Zr ⁴⁺ 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	José G. Planas changing metal sequences in multivariate metal-organic frameworks incorporating carborane ligands	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	Wonyoung Choe Data-Driven Discovery of Reticular Materials	Sachin Maruti Chavan Metal-organic framework for critical metal separation

12:25-12:40	Mariana Kozłowska Enhancement of two-photon absorption in metal-organic frameworks via synergistic effects induced by assembly	Zhijie Chen Reticular chemistry for functional crystalline porous frameworks		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	Kenichi Endo MOCOFs: Reticular intersection of MOF and COF chemistry toward elevated crystallinity, stability, and complexity		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			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 Chair: Silvia Bordiga				
	Andreas & Maria Kalokerinou Hall	Concert Hall	Experimental Stage	Seminar Room	
Chairs:	Margarita Costa Gomes	Yong Cui	Manuel Souto	Industrial Session Chair: Stefan Kaskel	
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 performances 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				

Chairs:	Theodore Steriotis	Jia Min Chin	Seda Keskin Avci		Stefan Kaskel
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				



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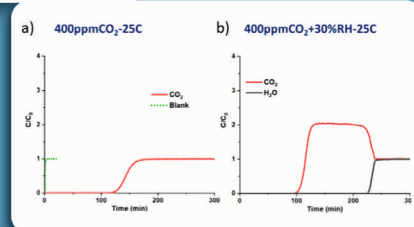
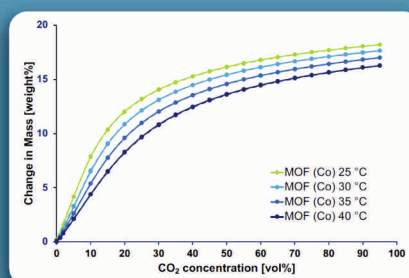
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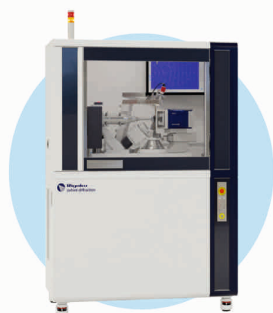
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Wednesday, September 24

08:30-09:15	Plenary 8 - Andreas & Maria Kalokerinou Hall Randall Snurr Insights into adsorption of water in metal-organic frameworks from molecular simulation Chair: Guillaume Maurin		
	Andreas & Maria Kalokerinou Hall	Concert Hall	Experimental Stage
Chairs:	Guillaume Maurin	Marco Daturi	
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	COFFEE BREAK		
Chairs:	Stefan Wuttke	Natalia Steunou	Ana E. Platero-Prats
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 Chair: Omar Farha		
12:55-13:10	BEST POSTER PRESENTATION AWARDS		
13:10-13:30	CLOSING CEREMONY		

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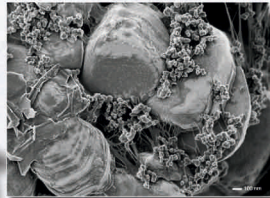
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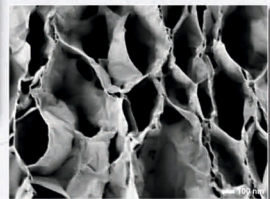


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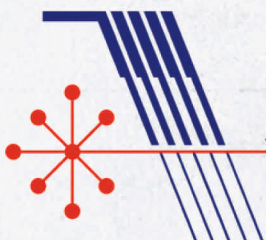
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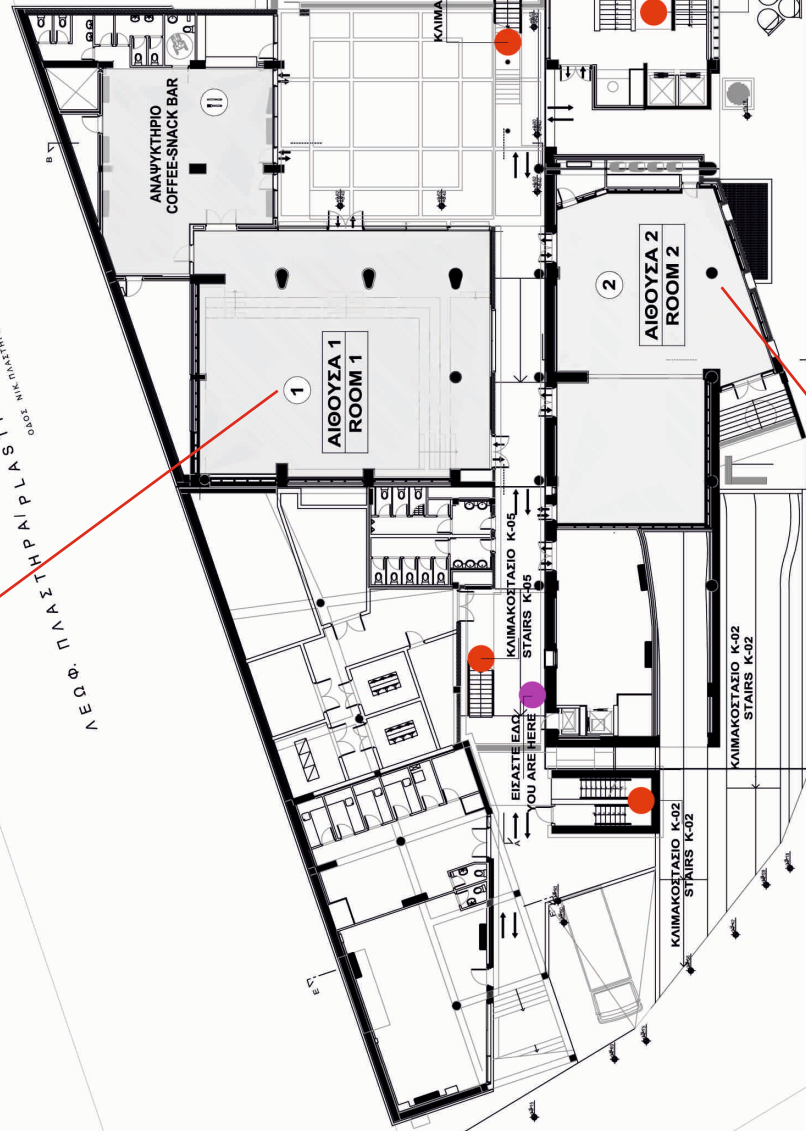
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EXPERIMENTAL
STAGE

ΝΕΟΦ. ΠΛΑΤΕΙΑ ΠΛΑΣΤΙΡΑ ΑΥΕ.
ΟΔΟΣ ΝΙΚ. ΠΛΑΣΤΙΡΑ (ΠΑΛΑΙΟΣ 18.80μ)



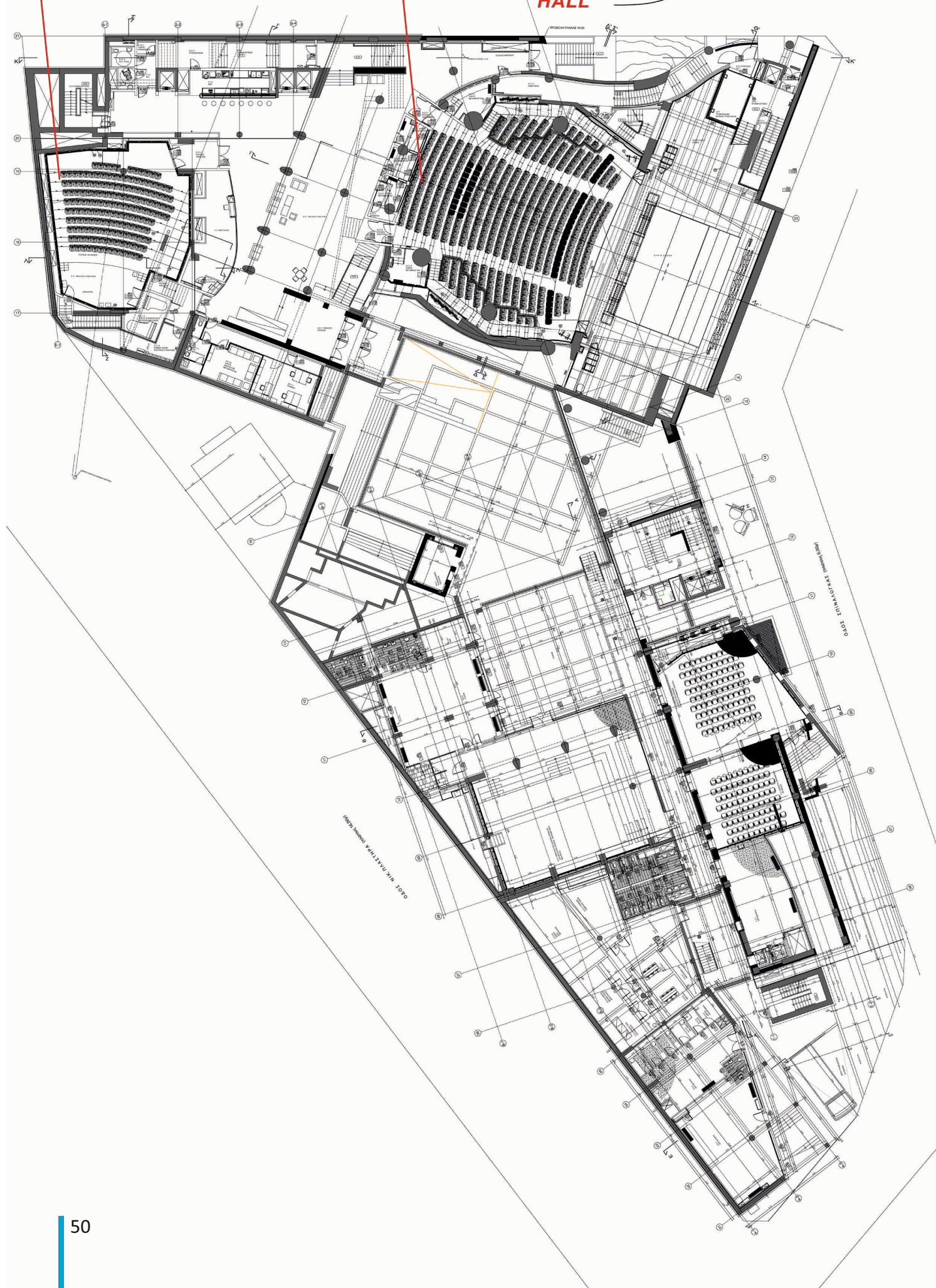
ΟΔΟΣ ΣΤΙΝΑΛΟΥΚΑΣ (ΠΑΛΑΙΟΣ 18.80μ)

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