	Friday, May 19	
	Room Megas Alexandros Keynote Chair: Theodore Steriotis	
09:00-09:30	Keynote Speaker Prof. Stefan Kaskel In situ methodologies for responsive Metal-Organic Frameworks	
	Room: Megas Alexandros Session A4 - Chair:	Room: Achilles Session B4 - Chair:
09:30-09:50	Michael Hirscher Flexible metal-organic frameworks for hydrogen isotope separation	Satoshi Watanabe Mechanism of CO ₂ capacity reduction of layered MOF (ELM-11) caused by water adsorption
09:50-10:10	Homare Arima Shaping of flexible metal–organic frameworks and less distinct gate adsorption caused by restricted volume expansion	Nataliia Smyk Sorption-spectroscopic determination of chromium (VI) and chromium (III) in waters
10:10-10:30	Volodymyr Bon Mechanistic understanding of guest-induced framework flexibility by in situ PXRD	Wacław Makowski Recent advances in characterization of porous materials using quasi-equilibrated thermodesorption of volatile compounds
10:30-10:50	Mariana Sardo Assessing the dynamics of adsorbed CO ₂ species in Covalent Organic Frameworks via solid-state NMR methods	Panagiotis Krokidas An evolutionary algorithm for the design of functionalized materials for separation membranes
10:50-11:15	Coffee break	
11:15-11:35	Chair: Yue-Biao Zhang Dynamic covalent organic frameworks	Chair: Dylan Sherman Illuminating metal-organic nanosheet functionality by guest intercalation
11:35-11:55	Anita Justin Post-synthetic Impregnation of amines in MOF pores for Post-combustion carbon capture	Helen Paola Toledo Jaldin Zn-MOF doped with La(III) and Tb(III) for fluorescent sensing of parathion by luminescence sensing
11:55-12:15	Sabine Devautour-Vinot MOFs for indoor contaminant capture and detection: a hybrid experimental-computational strategy	Abigail Lister New metal-organic framework synthesis methods for optimised chemiresistive gas sensors
12:15-12:35	Mahmoud Abdelnaby Covalent functionalization of UiO-66 analog metal- organic framework with aliphatic amine for the direct air capture	Theodore Lazarides Synthesis and study of luminescent metal-organic frameworks: Sensing and white-light emission

12:35-12:55	Ribooga Chang Structural tuning of fluorinated hybrid ultramicroporous materials for low-concentration CO ₂ capture	Alexandre Narcizo da Silva Production of residual activated carbon and their application in the adsorption of phenol and gallic acid	
12:55-14:30	Lunch break		
	Keynote Chair: Youssef Belmabkhout		
14:30-15:00	Keynote Speaker Prof. Wendy Queen Strategies for post-synthetic MOF modification to enhance their performance in gas and liquid separations		
	Room: Megas Alexandros Session A6 - Chair:	Room: Achilles Session B3 - Chair:	
15:00-15:20	Laurent Perrier Innovative hybrid materials for hydrogen storage	EL Mehdi Moumen Synthesis of stable and environmentally friendly MOF for phosphate adsorption from water	
15:20-15:40	Georgios Karanikolos Unraveling the potential of metal- and MOF-doped carbonaceous adsorbents for selective hydrogen storage at ambient temperature	Bogdan Protsenko Vibrational spectra supported by machine learning algorithms as a quantitative tool for zeolite structures	
15:40-16:00	Moneer Alenezi Assessment of weak hydrogen intermolecular force against strong chemical association as promising hydrogen storage techniques for automotive applications	Bartosz Mazur Use of the NVT + ghost swap method for efficient prediction of water adsorption isotherm	
16:00-16:20	Ioannis Tsimpanogiannis Hydrogen storage in clathrate hydrates: Recent advances and future prospects	Anastasios Gkotzias Free energy simulations of carbon nanoparticles crossing immiscible solvents	
16:20-16:45	Coffee	Coffee break	
	Chair: Chair:		
16:45-17:05	Agata Łamacz Methanol synthesis over metal-organic frameworks		
17:05-17:25	Utku Burgun The effect of pyrolysis temperature and plasma treatment on ZIF-67 based catalysts for fischer tropsch synthesis		
17:25-17:45	Khaled Hassanein Sayed Ahmed Immobilization of metallated porphyrin as molecular catalyst in UiO-66 type MOFs for selective carbon dioxide electroreduction		
17:45-18:05	Sridhar Palla Unravelling the structural and functional group effects of Cadmium based metal-organic framework on the CO ₂ /N ₂ and CO ₂ /CH ₄ separation		
18:05-18:30	Awards & Conlcusing remarks of MEDPore23		