	POSTER SESSION I
	Monday 22/09/2025
1	Niloufar Abdirad HEAVY METALS ABSORPTION INTO THE AMINO-RICH PORE SPACE OF CUBIC AND ORTHORHOMBIC VARIANTS OF ZR(IV) AND CE(IV)-IMIDOACETATE METAL-ORGANIC FRAMEWORKS
2	Sofía Barragán Soto AMINO ACID FUNCTIONALIZATION OF METAL-ORGANIC FRAMEWORKS TO ENHANCE CO2 CAPTURE
3	Jincheng Xu CONFINED GEOMETRY EFFECTS ON THE SUPERCRITICAL ADSORPTION BEHAVIOR OF HYDROGEN
4	Maria Vassaki EXPANDING THE FAMILY OF MULTICOMPONENT ULTRAPOROUS MOFS VIA FACILE TOPOTACTIC SINGLE-CRYSTAL-TO-SINGLE-CRYSTAL METAL EXCHANGE REACTIONS
5	Eunji Lee PYROLYTIC REARRANGEMENT OF SILVER(I) METAL-ORGANIC FRAMEWORK VIA SCSC TRANSFORMATION
6	In-Hyeok Park SOLVENT-INDUCED SCSC CONVERSION OF HETEROBIMETALLIC TO HOMOMETALLIC 2D MOFS VIA AN ADD-AND-REMOVE STRATEGY
7	Salma Benzaria MERGED NETS AS A PLATFORM FOR DESIGNING AND SYNTHESIZING TOPOLOGICALLY DIVERSE MOFS
8	Emmanuele Cillo DESIGN AND SYNTHESIS OF ALFA-TYPE LAYERED AND PILLARED ZIRCONIUM PHOSPHITE PHOSPHONATES WITH HIGH SPECIFIC SURFACE AREA AND POROSITIES
9	Aljaž Škrjanc BINARY SOLVENT MIXTURES IN ZIF-94 SYNTHESIS: TOWARDS CONTROLLABLE PARTICLE SIZE
10	Antti Marttinen SYNTHESIS AND CHARACTERIZATION OF WATER-STABLE MOFS DESIGNED FOR PHOTOCATALYTIC APPLICATIONS
11	Borja Ortín-Rubio TOP-DOWN APPROACHES FOR THE DE-RETICULATION OF METAL-ORGANIC FRAMEWORKS
12	Danaé Morel DIMETHYLFORMAMIDE-FREE, RAPID SYNTHESIS OF LARGE SINGLE CRYSTALS OF MOF-5 AS AN UNDERGRADUATE LABORATORY EXERCISE
13	Darosch Asgari CHARGED TETRATOPIC BORATE-BASED FRAMEWORKS CONSTRUCTED FROM COVALENT AND COORDINATION BONDS
14	Eleni Traka ESTABLISHING POROSITY IN MULTINODAL MOFS BASED ON AN OCTATOPIC ORGANIC LINKER VIA FACILE TOPOTACTIC CATION EXCHANGE REACTIONS
15	Elpiniki Chachlaki TRIAZINE-PHOSPHONATE BASED LINKERS: EXPLORING SYNTHETIC METHODOLOGIES AND THEIR DIVERSE COORDINATION NETWORKS

16	Emmanouil Paragioudakis FACILE ONE POT SYNTHESIS OF A BIMETALLIC FE/NI-SOC-MOF: STRUCTURAL INSIGHTS AND GAS STORAGE APPLICATIONS
17	Fangbing Liu DESIGN AND SYNTHESIS OF A STABLE POROUS PORPHYRINIC ZIRCONIUM MOF FOR APPLICATIONS IN PHOTOCATALYSIS
18	Fauzi Abdilah ULTRALIGHT LITHIUM MOFS USING ALKYNYL, ARYLOXIDE, AND CARBOXYLATE BASED LIGANDS
19	Georgia Orton HARNESSING FLEXIBILITY AND ORDER TO ACCESS NEW AREAS OF CHEMICAL SPACE
20	Giasemi Angeli ZR(IV) BASED METAL ORGANIC FRAMEWORKS FUNCTIONALIZATION WITH CARBON NANOSTRUCTURES FOR ENERGY RELATED APPLICATIONS
21	Giulio Bresciani MONOVALENT ANION-PILLARED COPPER(II) FRAMEWORKS: UNCOMMON ARCHITECTURES WITH PECULIAR ADSORPTION BEHAVIOR
22	Igor Novosselov SCCO ₂ -ASSISTED CONTINUOUS FLOW SYNTHESIS OF MOF/GO NANOCOMPOSITES
23	Ioanna Sideri FUNCTIONALIZED NANOCARBONS FOR MOF POST-SYNTHETIC MODIFICATION
24	Ivana Brekalo SYNTHESIS OF NEW ZINC IMIDAZOLATE SOLID FORMS USING COMPUTATIONALLY ASSISTED MECHANOCHEMISTRY
25	Jaime García Caba BIOCOMPATIBLE ZN-BASED METAL-ORGANIC FRAMEWORKS FOR DRUG CAPTURE
26	Jose de Jesus Velazquez-Garcia SYNTHESIS OF NEUTRAL AND IONIC METAL-ORGANIC FRAMEWORKS USING ME(II) IONS, TRIMESIC ACID AND IMIDAZOLE DERIVATIVES
27	Junsu Ha RAPID DEVELOPMENT OF VAST FAMILY OF ANIONIC METAL-ORGANIC FRAMEWORKS FACILITATED BY STRUCTURE-DIRECTING GUESTS AND 3D ELECTRON DIFFRACTION
28	Konstantinos Froudas MULTICOMPONENT ULTRAPOROUS MOFS WITH HIERARCHICAL POROSITY FOR GAS/VAPOR STORAGE APPLICATIONS
29	Leili Esrafili Dizaji DESIGNING LINKERS, CRAFTING PORES: SHORTCUT STRATEGIES FOR SYNTHESIS OF MESOPOROUS ZR- MOFS AND ADVANCED CHARACTERIZATION
30	Lidia García López DESIGN OF NOVEL METAL ORGANIC FRAMEWORKS BUILT FROM OXAMATE-FUNCTIONALICED AMINO ACID LIGANDS
31	Luis Felipe Villanueva Sanchez MOLECULAR SHUTTLES AS LINKERS FOR THE DESIGN OF FLEXIBLE MOF ARCHITECTURES
32	Marco Taddei A MILD WATER-BASED ROUTE TO SYNTHESISE UIO-66 FROM TEREPHTHALATE ESTERS

33	Matthieu Meoli A SIMPLE DESIGN STRATEGY FOR HIGHLY STABLE LARGE-PORE ZIRCONIUM MOFS
34	Micaela Richezzi EXPLORING THE SYNTHESIS OF HIGH NUCLEARITY CLUSTER-BASED METAL-ORGANIC FRAMEWORKS USING EARLY LANTHANOIDS
35	Mickaele Bonneau SUSTAINABLE AL-FUMARATE SYNTHESIS: SPRAY DRYING UPSCALING AND DEVELOPMENT OF ALTERNATIVE GREEN APPROACHES
36	Miriam Perbet OPTIMIZATION OF SYNTHESIS PARAMETERS FOR PHASE-SELECTIVE, ENVIRONMENTALLY FRIENDLY ALBTC PRODUCTION
37	Nam Ho Kwon IONIC COVALENT ORGANIC FRAMEWORK NANOSHEETS-BASED MEMBRANES WITH ENHANCED PROTON CONDUCTION THROUGH SYNERGISTIC DUAL FUNCTIONALIZATION AND MONOMER ENGINEERING
38	Ocean Cheung MATERIAL PREPARATION INFORMATION FILE (MPIF): A COMMUNITY-DRIVEN STANDARD FOR REPORTING MOF SYNTHESES
39	Rawan Al Natour ENGINEERING PILLARED-LAYERED FCU-MOFS FOR HYDROCARBON SEPARATION
40	Richard Engemann MODULATOR-CONTROLLED EXFOLIATION OF TWO-DIMENSIONAL ZR-MOFS
41	Sae Matsui CONTROL OF DECARBONATION REACTIVITY BY CO ₃ ²⁻ -BASED COORDINATION POLYMERS
42	Sijie Xie PROBING THE CRITICAL BUILDING UNIT CONCENTRATIONS FOR UTSA-280 NUCLEATION ON GOLD SUBSTRATES
43	Sonia Martínez Giménez BROAD RANGE THERMAL DEFECT ENGINEERING IN MOLECULAR FRAMEWORKS WITH VOLATILE LINKERS
44	Tianhao Xue THIOPHENE-ENRICHED TETRATHIENONAPHTHALENE(TTN)-BASED COVALENT ORGANIC FRAMEWORKS (COFS)
45	Urška Gazdag THE INFLUENCE OF SYNTHESIS CONDITIONS ON ZEOLITIC IMIDAZOLATE FRAMEWORK-8 THIN FILMS
46	Wiktoria Gromelska THIAZOLOTHIAZOLE 2D METAL-ORGANIC FRAMEWORKS BASED ON ISOPHTHALIC ACID DERIVATIVES
47	Xiansong Shi POLYHEDRAL CRYSTAL FILMS OF COVALENT ORGANIC FRAMEWORKS
48	Yasaswini Oruganti COORDINATION-DRIVEN STRUCTURAL EVOLUTION AND PROTON TRANSPORT IN COPPER METAL-ORGANIC MATERIALS
49	Ye Ji Shin ENGINEERING OF COVALENT ORGANIC FRAMEWORK MEMBRANES WITH ASYMMETRIC CHANNELS VIA SEQUENTIAL POST-SYNTHETIC MODIFICATION FOR REVERSE ELECTRODIALYSIS

50	Yi Luo ENHANCING OPTOELECTRONIC PROPERTIES IN PHTHALOCYANINE-BASED SURMOFS: SYNTHESIS OF ABAB LINKERS BY AVOIDING STATISTICAL CONDENSATION WITH TAILORED BUILDING BLOCKS
51	Mohamed Essalhi ROBUST ANIME-GRAFTED POROUS ORGANIC POLYMER FOR HIGHLY SELECTIVE CARBON DIOXIDE CAPTURE FROM AIR
52	Qian Yu SUSTAINABLE DESIGN AND MODIFICATION OF CUBTC FOR HIGH-PERFORMANCE HYDROGEN STORAGE APPLICATIONS
53	Richa Vinayak SCALABLE, LOW-ENERGY SYNTHESIS OF COBALT-CITRIC ACID MOFS WITH CO ₂ UPTAKE POTENTIAL
54	Saeed Ashtiani ADVANCED MULTIFUNCTIONAL SANDWICH STRUCTURE ZR AND ZN-BASED MOFS FOR ACTIVE O_2/N_2 AND H_2/O_2 GAS SEPARATION
55	Dhouha Abid HIERARCHICAL DESIGN OF CO/CO-NI MOF-DERIVED CATALYSTS TOWARD ENHANCED HYDROGEN EVOLUTION
56	Rana Khankishiyeva POST-SYNTHETIC BIOFUNCTIONALIZATION OF ZIRCONIUM MOFs VIA ALKYNE CLICK REACTIONS AND THEIR RADIOMODIFICATION BEHAVIOR
57	Rongwei Gao SELECTIVE PROTEIN HYDROLYSIS BY SOL-GEL SYNTHESIZED ZR-UIO-66 NANOZYME
58	Eva Dahlqvist SYNTHESIS OF PROTON-CONDUCTING COVALENT ORGANIC FRAMEWORKS
59	Kyumin Park VINYL-FUNCTIONALIZED IONIC COVALENT ORGANIC FRAMEWORKS FOR LITHIUM BATTERY APPLICATIONS
60	Marilyn Esclance DMello CHEMICAL DESIGN OF REDOX COVALENT ORGANIC FRAMEWORKS AS HIGH VOLTAGE CATHODES FOR LI- ION BATTERIES
61	Nissar Hussain TAILORED DESIGN OF AN OXYGEN-RICH STABLE CO-MOF INTEGRATED WITH MXENE NANOFIBERS AS ADVANCED HETEROSTRUCTURES FOR HIGH-PERFORMANCE AMMONIUM-ION SUPERCAPACITORS
62	Estelle Dalod MOF SCALE-UP SYNTHESIS BY SPRAY-DRYING
63	Mounir El Skafi MECHANICAL BEHAVIOUR OF ZIF-71 MONOLITHS AND POLYMER@ZIF-71 COMPOSITES
64	$\label{eq:continuous} \textbf{Igor Novosselov} \\ \text{SUPERCRITICAL CO$_2$ CONTINUOUS FLOW SYNTHESIS OF METAL ORGANIC FRAMEWORKS} \\$
65	Yu Gai A UNIQUE POST-SYNTHETIC TREATMENT USED TO PREPARE ORDERED DEFECTS IN THE UIO-66 SYSTEM
66	Byeong Hak Jeon CONSTRUCTION OF A THREE- DIMENSIONAL PORPHYRIN ORGANIC FRAMEWORK FROM POROUS ORGANIC CAGE BLOCKS

67	Jie Xu DIAMONDIYNE: A 3D CARBON ALLOTROPE WITH MIXED VALENCE HYBRIDIZATION
68	Lingling Wang ELECTROCLEAVAGE SYNTHESIS OF MOLECULAR-LEVEL HYBRID COF/SINGLE-LAYER MOF-DERIVATIVE MOOH CATALYSTS WITH INTERFACE-HETEROJUNCTION FOR BIOMASS ELECTROOXIDATION REACTION
69	Tapendu Samanta ENHANCED UPCONVERSION EMISSION OF LANTHANIDE METAL-ORGANIC FRAMEWORKS
70	Arup Biswas INVESTIGATING CHARGE FLOW IN MULTIVARIATE REDOX-CONDUCTIVE MOFS
71	Chitvan Jain TAILORING COFS: TRANSFORMING NONCONDUCTING 2D LAYERED COF INTO A CONDUCTING QUASI-3D ARCHITECTURE VIA INTERLAYER KNITTING WITH POLYPYRROLE
72	Ignacio Munoz-Alonso ENGINEERING 3D FULLY CONJUGATED COFS: BUILDING HETEROCYCLIC FRAMEWORKS AND EXPLORING CHARGE CARRIER DYNAMICS
73	Anindita Goswami THE EFFECT OF HYDROSTATIC AND NON-HYDROSTATIC PRESSURE ON PCN-250
74	Pratibha Malik A MICROPOROUS BIMETALLIC ALUMINUM-COPPER-CARBOXYLATE-PYRAZOLATE MOF FOR CO ₂ CAPTURE
75	Rida Zahid PHOTOCATALYTIC POTENTIAL OF CERIUM MOFS: EXPLORING LIGAND EFFECTS IN POLLUTANT DEGRADATION
76	Nitika Bhutani CONSTRUCTION OF LDH-DERIVED BIMETALLIC METAL-ORGANIC FRAMEWORK (BMOF) FOR ENERGY CONVERSION AND STORAGE APPLICATION
77	Shafeeq Sarfudeen A NOVEL MECHANO-SYNTHESIZED ZEOLITIC TETRAZOLATE FRAMEWORK FOR HIGH-PERFORMANCE TRIBOELECTRIC NANOGENERATOR AND SELF-POWERED SELECTIVE NEUROCHEMICAL DETECTION
78	Biswajit Bhattacharya MECHANOCHEMICALLY SYNTHESIZED COVALENT ORGANIC FRAMEWORK EFFECTIVELY CAPTURES PFAS CONTAMINANTS
79	Angelo Monguzzi ULTRAFAST BIMOLECULAR PROCESSES IN ENGINEERED SCINTILLATING METAL ORGANIC FRAMEWORKS.
80	Agata Tyszka-Gumkowska LEAVING THE DARK SIDE: TRANSFORMING IMINE-COFS INTO HIGHLY EMISSIVE MATERIALS
81	Roman Guntermann SYSTEMATIC BAND-GAP ENGINEERING IN COVALENT ORGANIC FRAMEWORKS THROUGH ISOMERIC ALLOYING
82	Jakub Ostapko ENHANCING COF EMISSION: FROM PHOTOPHYSICAL INSIGHTS TO UPCONVERSION APPLICATIONS
83	Balkaran Singh Sran TOPOLOGY ENGINEERING VIA POLYMORPHISM IN PURE AND MIXED-PHASE NI(II)-BASED METAL-ORGANIC FRAMEWORKS

84	Sergi González Martínez ZIF-8 THIN FILM-BASED SENSORS FOR THE OPTICAL DETECTION OF VOLATILE ORGANIC COMPOUNDS
85	Wafaa Ahmed Mohamed DEFECT ENGINEERING IN A ROBUST TWOFOLD-INTERPENETRATED BISMUTH MOF: UNRAVELING THE STRUCTURE-PROPERTY PARADIGM
86	Magdalena Miodyńska-Melzer DESIGN AND CHARACTERIZATION OF COPPER-ORGANIC FRAMEWORKS WITH CHROMOPHORIC LIGANDS
87	Manuel Ceballos WHEN GOLD MEETS ZR-MOFS: OVERCOMING SYNTHETIC INCOMPATIBILITY IN CORE-SHELL NANOSTRUCTURES
88	Samina Easmin FACILE SYNTHESIS OF FLUORINATED METAL-ORGANIC FRAMEWORKS: POTENTIAL CANDIDATES FOR GAS ADSORPTION
89	Vishnu Nair Gopalakrishnan CONTROLLING THE DEGREE OF INTERPENETRATION IN 3D COVALENT ORGANIC FRAMEWORKS FOR TAILORED POROSITY
90	Miguel Chaves S. SERS-ACTIVE HYBRID MATERIALS DERIVED FROM COVALENT ORGANIC POLYMERS AND GOLD NANOSTARS FOR SAXITOXIN DETECTION
91	Piyush Singh AN ULTRA-MICROPOROUS ZINC-DIAMINOTRIAZOLATE OXALATE METAL-ORGANIC FRAMEWORK WITH NONLAYERED-PILLARED STRUCTURE SHOWING HIGH CARBON DIOXIDE UPTAKES AT LOW PARTIAL- PRESSURES
92	Lingfei Kong BIMETALLIC MOF-DERIVED CARBONS AS BIFUNCTIONAL ORR/OER ELECTROCATALYSTS FOR ZINC-AIR BATTERIES
93	Isil Akpinar IN SITU ENCAPSULATION OF CATIONIC [2]CATENANE IN A STABLE ZIRCONIUM METAL-ORGANIC FRAMEWORK
94	Ashish Kumar METAL-ORGANIC FRAMEWORK FOR HYDROGEN PRODUCTION BY PHOTOCATALYTIC OVERALL WATER SPLITTING
95	Sumanta Chowdhury POST-SYNTHETIC MICROENVIRONMENT TUNING OF COVALENT ORGANIC FRAMEWORKS FOR SELECTIVE CO_2 REDUCTION
96	Haji Vahid Akhunzada POST-SYNTHETIC MODIFICATION OF ZIRCONIUM MOFS THROUGH ATOM-ECONOMIC ALKYNE CLICK REACTIONS
97	Arnab Sadhukhan FUNCTIONALITY MODULATION TOWARD THAINTHRENE-BASED METAL-FREE ELECTROCATALYSTS FOR WATER SPLITTING
98	Kornel Roztocki THEORETICAL AND EXPERIMENTAL INSIGHTS INTO THE SPATIAL DISTRIBUTION OF FUNCTIONAL GROUPS IN MULTIVARIATE FLEXIBLE METAL-ORGANIC FRAMEWORK
99	Lujia (Luke) Liu SPATIALLY RESOLVED SELECTIVE ADSORPTION PROFILES

100	Khai-Nghi Truong OVERCOMING SIZE LIMITATIONS IN MOF RESEARCH: STRUCTURAL ELUCIDATION BY ELECTRON DIFFRACTION
101	Bohyeon Jang NMN STABILIZATION THROUGH DUAL ENCAPSULATION OF Γ-CD MOF AND LIPOSOMES
102	Jan J. Weigand MODULAR POLYHEDRAL SILVER-PHOSPHINIDENIDE CLUSTERS AS VERSATILE PRECURSORS FOR POLYDIMENSIONAL METAL-ORGANIC ARCHITECTURES
103	Jiamin Sun REAL-T+A1:C110IME OBSERVATION OF BILAYER GROWTH IN IMINE-LINKED 2D COFS
104	Frederic Dietrich POTENTIAL OF METAL-ORGANIC FRAMEWORKS IN HYDROGEN STORAGE: SCALE-UP AND STABILITY ASSESSMENT OF FE-SOC-MOF UNDER HUMID CONDITIONS
105	Gregor Lauter IS BIGGER ALWAYS BETTER? POROSITY AND ADSORPTION IN FRAMEWORK MATERIALS