

YSS Poster Session

P1	CAN WE DEVELOP MOFS BASED ON METAL-PHOSPHIDES? Ioannis Mylonas Margaritis
P2	NANO-SPRINGE ENRICHED HIERARCHICAL POROUS MOP/COF HYBRID AEROGEL: EFFICIENT RECOVERY OF GOLD FROM ELECTRONIC WASTE Dipanjan Majumder
P3	APPLICATIONS OF NH ₂ -MIL-125-BASED MATERIALS FOR PHOTOCATALYSIS Mateusz Adam Baluk
P4	TOWARDS GREENER REFRIGERANTS: SIMULATING ADSORPTION REFRIGERATION IN RIGID METAL ORGANIC FRAMEWORKS Chi Cheng (Cecilia) Hong
P5	STUDY OF MOFS (METAL-ORGANIC FRAMEWORKS) FOR H/D/T ISOTOPIC SEPARATION Maylis Georgelin
P6	ULTRALIGHT LITHIUM MOFS USING ALKYNYL, ARYLOXIDE, AND CARBOXYLATE BASED LIGANDS Fauzi Abdilah
P7	AMINO ACID FUNCTIONALIZED MOF-808 FOR CO ₂ CAPTURE: UNRAVELING THE HOST-GUEST INTERACTION VIA INS SPECTROSCOPY AND DFT CALCULATIONS Harol David Martínez Hernández
P8	CLICK-ENABLED RECOGNITION OF CHIRAL DRUGS IN RETICULAR FRAMEWORKS Guillermo Gómez-Tenés
P9	DECIPHERING INTERFACIAL INTERACTIONS IN A DUAL-FUNCTIONAL MOF@COF COMPOSITE FOR WATER REMEDIATION Isabel del Castillo-Velilla
P10	BROAD RANGE THERMAL DEFECT ENGINEERING IN MOLECULAR FRAMEWORKS WITH VOLATILE LINKERS Sonia Martínez Giménez
P11	RAPID FORMATION OF VINYLENE-LINKED COVALENT ORGANIC FRAMEWORKS Clara Ponte
P12	CRUDE ENZYME EXTRACTS FOR BIOCATALYST ENTRAPMENT IN METAL-ORGANIC FRAMEWORKS Orysia Zaremba
P13	PHOTO/THERMAL ACTIVE METAL-ORGANIC FRAMEWORKS: STRUCTURAL TRANSFORMATIONS AND REACTION KINETICS Qi Liu
P14	LUMINESCENT METAL-ORGANIC FRAMEWORKS AS AN EFFECTIVE ALTERNATIVE FOR HEAVY METAL DETECTION IN AQUEOUS ENVIRONMENT Nikolaos Pliatsios
P15	BINARY SOLVENT MIXTURES IN ZIF-94 SYNTHESIS: TOWARDS CONTROLLABLE PARTICLE SIZE Aljaž Škrjanc
P16	GAS SEPARATION AND VOLATILE ORGANIC COMPOUNDS DETECTION PROPERTIES OF A NOVEL CU-BASED FLEXIBLE METAL-ORGANIC FRAMEWORK Pablo Salcedo
P17	MULTISCALE COMPUTATIONAL INSIGHTS INTO THE PFOA ADSORPTION BY CHEMICALLY ENGINEERED MOF-808 Michail Vlachos
P18	THE ROLE OF CHEMICAL BONDING AND HYDRATION STATE ON THERMAL EXPANSION OF A ZINC-BASED METAL-ORGANIC FRAMEWORK Nina Strasser
P19	ELUDICATING THE IMPACT OF THE SYNTHESIS METHODE ON THE STRUCTURAL FLEXIBILITY OF MIL-88 A (FE) DURING WATER HARVESTING Timo Manitz

P20	INVESTIGATION OF MOF-MECHANICS WITH BRILLOUIN LIGHT SCATTERING AND MACHINE-LEARNED INTERATOMIC POTENTIALS Florian Lindner
P21	DYNAMIC BREATHING BEHAVIOUR OF THE TITANIUM-BASED METAL-ORGANIC FRAMEWORK NTU-9 UPON ADSORPTION OF WATER AND ORGANIC SOLVENTS Julia Knapp
P22	TOWARDS A FUNDAMENTAL UNDERSTANDING OF FORCED LIQUID INTRUSION FOR SHOCK ABSORPTION APPLICATIONS USING MACHINE LEARNING POTENTIALS Jelto Neiryneck
P23	MOCOS: RETICULAR INTERSECTION OF MOF AND COF CHEMISTRY TOWARD ELEVATED CRYSTALLINITY, STABILITY, AND COMPLEXITY Kenichi Endo
P24	MOLECULAR RECOGNITION IN $M_{12}L_8$ INTERLOCKED METAL-ORGANIC CAGES Stefano Elli
P25	APPLYING MACHINE-LEARNING APPROACHES FOR A QUANTITATIVELY RELIABLE DESCRIPTION OF HEAT TRANSPORT IN MOFS Florian Unterkofler
P26	LUMINESCENT METAL-ORGANIC FRAMEWORKS AS MULTI-FUNCTIONAL MATERIALS FOR WATER REMEDIATION: SETTING UP BEST PRACTISES Anna Mauri
P27	TUNING ELECTRICAL CONDUCTIVITY IN ONE-DIMENSIONAL POROUS MOLECULAR CONDUCTORS Liyuan Qu
P28	ALKALI-RESISTANT MOFS WITH ION CONDUCTIVITY FOR ALKALINE ANION EXCHANGE MEMBRANE APPLICATIONS Qingqing Shao
P29	NOVEL PCL-Uio-66-UREA MOF FOR THE SELECTIVE ADSORPTION AND DETECTION OF NITRO COMPOUNDS IN SPLIT-RING RESONATOR-BASED SENSORS Tobias Hennig
P30	TAILORING LOW-CERIUM BIMETALLIC MOFS TOWARDS A SUSTAINABLE OXYGEN EVOLUTION REACTION Patrizio Campitelli
P31	ESTABLISHING MATERIAL-TRANSFERABLE DESIGN RULES FOR DEFECTIVE METAL-ORGANIC FRAMEWORKS AND METAL HALIDE PEROVSKITES THROUGH STRAIN ENGINEERING Nils Clovin
P32	TAILORING ACTINIDE PRECIPITATION IN COMPLEX ORGANIC MEDIA Mathéo Henry
P33	SWITCHABLE COOPERATIVE CO ₂ ADSORPTION MECHANISM IN MULTIVARIATE MIL-140A(Ce) MOFS Francesca Nerli
P34	OPTIMIZATION OF SOD-TYPE ZIF THIN-FILMS FOR OPTICAL APPLICATIONS THROUGH TARGETED LAYER FORMATION AND ADSORPTION CONTROL Lukas Steinbach
P35	BRIDGING GENERIC FORCE FIELDS AND UNIVERSAL MACHINE LEARNING POTENTIALS FOR MOF SCREENING: ETHYLENE CAPTURE IN FOOD APPLICATIONS AS A BENCHMARK Satyanarayana Bonakala
P36	SIMULATING ²³ Na NMR OF SODIUM-ION-MODIFIED ZIF-62 GLASS Mario Antonio Ongkiko
P37	ELECTROCHEMICAL DEPOSITION OF HKUST-1 POLYCRYSTALLINE FILMS AS TRIBO-POSITIVE MATERIAL FOR ROBUST TRIBOELECTRIC ENERGY HARVESTERS Chuzhan Jin
P38	POLYMORPHISM-DRIVEN TOPOLOGY TUNING IN PURE AND MIXED-PHASE NI(II)-BASED METAL-ORGANIC FRAMEWORKS Balkaran Singh Sran
P39	PHOTOINDUCED GUEST RELEASE USING WERNER CLATHRATES Chen Nuo

P40	SYNTHESIS OF A FLEXIBLE CALCIUM COORDINATION POLYMER FOR THE DEVELOPMENT OF COORDINATION POLYMER GLASSES Han Xiao
P41	ANION-EXCHANGEABLE DEFECTIVE UiO-66 FOR NITRATE REMOVAL IN WATER Aditya Witono
P42	UNVEILING HIGH PERFORMANCE MOFS FOR CH ₄ /H ₂ SEPARATION THROUGH COMBINED MOLECULAR SIMULATION AND ML APPROACH Pelin Sezgin
P43	ZN(II) COORDINATION POLYMER WITH HIGH GLASS-FORMING ABILITY FOR EFFICIENT GAS SEPARATION Yuan Huang
P44	CONTROL OF DECARBONATION REACTIVITY BY CO ₃ ²⁻ -BASED COORDINATION POLYMERS Sae Matsui
P45	PHOTOINDUCED SINGLE-CRYSTAL-TO-SINGLE-CRYSTAL TRANSFORMATION IN Cd-INCLUDING WERNER COMPLEX Shishi Du
P46	GAS EXCLUSION ZONES IN TYPE-II POROUS LIQUIDS Cathal Kelly
P47	CONTINUOUS FLOW SYNTHESIS OF HIGHLY STABLE, WATER-BASED MOFS FOR EFFICIENT TOXIC GAS CAPTURE Hashim Alhashimi
P48	RARE EARTH METAL- ORGANIC FRAMEWORKS: STRUCTURAL DIVERSITY, STABILITY, AND LUMINESCENT PROPERTIES Usama Ehsan
P49	TUNABLE ISOMETRIC DONOR-ACCEPTOR WURSTER-TYPE COVALENT ORGANIC FRAMEWORK PHOTOCATHODES David Helminger
P50	A SERIES OF CONDUCTING TETRATHIAFULVALENE-BASED 2D MOFS WITH LANTHANIDES IONS (Dy ^{III} , Er ^{III} & Yb ^{III}) Fabio Manna
P51	STRUCTURAL ANISOTROPY IN COORDINATION POLYMER GLASS INDUCED BY MACROSCOPIC ELONGATION Shuto Tsuda
P52	MODELLING OF ADSORPTION IN METAL-ORGANIC-FRAMEWORKS USING ATOMISTIC FORCE FIELDS Erik Rohloff
P53	ENVIROMENTAL APPLICATIONS OF METAL-ORGANIC FRAMEWORKS MCarmen Contreras
P54	INVESTIGATING THE GROWTH MECHANISMS INVOLVED IN A GREEN ALUMINUM FUMARATE SYNTHESIS Miriam Perbet
P55	MACHINE LEARNING APPROACH FOR PREDICTION SECOND HARMONIC GENERATION IN METAL-ORGANIC FRAMEWORKS Vladimir Shirobokov
P56	MULTICOMPONENT ULTRAPOROUS MOFS WITH HIERARCHICAL POROSITY FOR GAS/VAPOR STORAGE APPLICATIONS Konstantinos Froudas
P57	MACHINE LEARNING POTENTIALS FOR CRYSTAL STRUCTURE PREDICTION OF MAGNETIC METAL-ORGANIC FRAMEWORKS Bramantya Bramantya
P58	PORPHYRIN METAL-ORGANIC FRAMEWORKS: ONE-POT SYNTHESIS Anna Sinelshchikova
P59	IN SITU AND PDF NEUTRON DIFFRACTION FOR THE ADVANCED STRUCTURAL ANALYSIS OF MOF CATALYSTS FOR CARBON DIOXIDE VALORISATION Kirstin Wilson

P60	ENVIRONMENTAL HAZARD TESTING OF METAL-PHENOLIC NETWORKS USING AQUATIC ORGANISMS Ilona Juvonen
P61	BEYOND DRUG DELIVERY: COPPER-BASED METAL-ORGANIC FRAMEWORKS AS INTERVENTIONAL PLATFORMS FOR MICROBIOLOGICAL CONTROL Aleksander Ejsmont
P62	GREEN SYNTHESIS OF MONOLITHIC ULTRAMICROPOROUS METAL-ORGANIC FRAMEWORKS FOR DIRECT AIR CAPTURE Hamish MacLeod
P63	STRATEGIES TOWARDS TAILORING THE POROSITY OF METAL-ORGANIC FRAMEWORK (MOF) GLASSES Bethan Turner
P64	MOLECULAR LAYER DEPOSITION OF AIF-MOF FOR SELECTIVE CO ₂ CAPTURE: A MOLECULAR LAYER DEPOSITION STUDY Maram Bakiro
P65	PHOTOTHERMAL EFFECT IN MOF-BASED CATALYSTS TO BOOST CO ₂ CONVERSION Hongmei Chen
P66	DEFEROXAMINE NANOCOMPOSITES FOR METAL BINDING Danylo Merzhyievskyi
P67	ELECTROCHROMISM IN A Cu-TRIAZOLE METAL-ORGANIC FRAMEWORK Danial Kohminaei
P68	ENGINEERING SYNERGISTIC BINDING SITES IN A ZIRCONIUM MOF FOR HIGHLY EFFICIENT CAPTURE OF PERFLUOROOCTANOIC ACID Edouardos Loukopoulos
P69	STRUCTURAL REVELATION OF CYCLIC WATER TRIMERS IN A CUBOCTAHEDRAL CADMIUM-BASED MOF: SYNTHESIS, CHARACTERIZATION, AND HYDROPHILIC CONFINEMENT Sharad Kumar Sachan
P70	COPPER EMBEDDED Ti- METAL-ORGANIC FRAMEWORKS FOR PHOTOCATALYTIC H ₂ PRODUCTION FROM FORMIC ACID Nisrine Assaad
P71	SERS-ACTIVE HYBRID MATERIALS DERIVED FROM COVALENT ORGANIC POLYMERS AND GOLD NANOSTARS FOR SAXITOXIN DETECTION Miguel Chaves S.
P72	DESIGN OF CHIRAL POROUS BIO-HYBRID MATERIALS AS CATALYSTS FOR CO ₂ CONVERSION Navaneeth Narayan Gowda
P73	INTESTINAL CROSSING OF METAL-ORGANIC FRAMEWORKS Sara Rojas
P74	DEVELOPMENT OF MOFS BASED ADSORBENTS FOR THE SELECTIVE CAPTURE OF VOLATILE ORGANIC COMPOUNDS EMITTED BY EGYPTIAN MUMMIES' BALMS Irène Mangialomini
P75	METAL-ORGANIC FRAMEWORK BASED FUNCTIONAL GLASSES AND POROUS LIQUIDS Sanjog S. Nagarkar
P76	SYNTHESIS OF PROTON CONDUCTING COVALENT ORGANIC FRAMEWORKS Eva Dahlqvist
P77	RAPID DEVELOPMENT OF VAST FAMILY OF ANIONIC METAL-ORGANIC FRAMEWORKS FACILITATED BY STRUCTURE-DIRECTING GUESTS AND 3D ELECTRON DIFFRACTION Junsu Ha
P78	A COVALENT ORGANIC FRAMEWORK PLATFORM FOR COOPERATIVE PHOTOREDOX CATALYSIS Christopher Bradshaw
P79	MODULATED SYNTHESIS OF A NEW TITANIUM-BASED METAL-ORGANIC FRAMEWORK WITH PHOTOCATALYTIC ACTIVITY UNDER RED LIGHT Pablo Ayala
P80	ON THE INFLUENCE OF Cu-Ox VERSUS Cu-N ₃ MOTIFS AND OXYGENATED GUEST MOLECULES IN Cu(I) CONTAINING UiO-67 MOFS FOR C-H ACTIVATION Rafael Cortez Sgroi Pupo

P81	NONLINEAR OPTICAL MOF THIN FILM Zhi-Gang Gu
P82	CONTROLLING THE DEGREE OF INTERPENETRATION IN 3D COVALENT ORGANIC FRAMEWORKS FOR TAILORED POROSITY Vishnu Nair Gopalakrishnan
P83	A MULTIVARIATE LIGAND STRATEGY TO IMPROVE BIOFUNCTIONALITY AND STABILITY IN ENZYME@MAF BIOCOMPOSITES Verena Lipic
P84	NEGATIVE THERMAL EXPANSION OF A MIXED-LINKER Zr-MOF SYSTEM Wim Temmerman
P85	TUNING GATE-OPENING PRESSURE IN FLEXIBLE ZEOLITIC IMIDAZOLATE FRAMEWORKS FOR INVERSE OLEFIN/PARAFFIN SEPARATION Rodrigo Gil San Millan
P86	CLUSTER-BASED LEARNING TO DESCRIBE DISORDERED METAL-ORGANIC FRAMEWORKS AT THE MESOSCALE Pieter Dobbelaere
P87	FROM HYBRID DFT FUNCTIONALS TO MACHINE LEARNING INTERATOMIC POTENTIALS FOR MOF Mattia Raimondo
P88	ATOMIC-LEVEL INSIGHTS INTO CO ₂ ADSORPTION IN A DEFECTIVE AMINO-FUNCTIONALIZED MOF THROUGH IN SITU HR-PXRD Giulia Taini
P89	COST-EFFECTIVE HYBRID DFT METHODS TO ADDRESS SIZE AND COMPLEXITY IN METAL-ORGANIC FRAMEWORKS Lorenzo Donà
P90	DEFECTIVE Ce-DOPED MIXED LIGAND-Uio-66 MOFS WITH CONTROLLED FLUORINATION FOR CO ₂ CONVERSION: SYNTHESIS AND THOROUGH CHARACTERIZATION Gabriele Stucchi
P91	THEORETICAL INVESTIGATION OF MOF'S LINKER FUNCTIONALIZATION FOR ENHANCING DESALINATION Electra Manoura
P92	MOF-ON-MOF HETEROSTRUCTURE THIN FILM: A RATIONAL DESIGN STRATEGY TO INVESTIGATE EMERGENT INTERFACIAL PHENOMENA Pooja Sindhu
P93	ADSORPTIVE SEPARATION OF WATER-ALCOHOL MIXTURES USING POROUS COORDINATION POLYMER Konstantinos Papadopoulos
P94	MACHINE LEARNING DERIVED ATOMIC CHARGES OF METAL- ORGANIC FRAMEWORKS FROM A WELL-CURATED SMALL DATASET Herald Paja
P95	ENGINEERING PHOTOSWITCHING DYNAMICS IN 3D PHOTOCHROMIC METAL-ORGANIC FRAMEWORKS THROUGH METAL-ORGANIC POLYHEDRON DESIGN Eunji Jin
P96	THE FORMATION AND PROPERTIES OF HYBRID GLASS MATERIALS Jay McCarron
P97	HCL-ASSISTED SYNTHESIS OF DEFECTIVE METAL-ORGANIC FRAMEWORK UiO-66(Zr) FOR GAS CAPTURE Zineb Ouzrour
P98	ACCESSING CHARGE IN A SERIES OF REDOX-ACTIVE COVALENT ORGANIC FRAMEWORKS (COFs): HARNESSING STRUCTURE-PROPERTY CORRELATION TO BATTERY APPLICATION Sumanta Let
P99	METAL-ORGANIC FRAMEWORK DRIVEN RANDOM LASING AND SOLID-STATE LIGHT EMISSION Giuseppe Ficarra

P100	[Cu ₂ (trz-ia) ₂] – AN ULTRAMICROPOROUS Cu ₂ PADDLE WHEEL TRIAZOLYL ISOPHTHALATE MOF: A COMPARATIVE STUDY OF ITS PROPERTIES IN DIHYDROGEN ADSORPTION AND ISOTOPOLOGUE SEPARATION Sibo Chetry
P101	USING ELECTRON DIFFRACTION TO UNLOCK THE CRYSTALLINE SPONGE TECHNIQUE Russell Main
P102	MOFSYNTH: A COMPUTATIONAL TOOL TOWARD SYNTHETIC LIKELIHOOD PREDICTIONS OF MOFS Charalampos Livas
P103	CONTROLLING THE SELF-ASSEMBLY AND MECHANICAL PROPERTIES OF ISOSTRUCTURAL DISULFIDE-BASED METAL–ORGANIC NANOTUBES Kunyi Leng
P104	BIOCOMPATIBILITY AND STABILITY OF MFM-300(Al) IN CYANOBACTERIAL CULTURES Milad Mousavi
P105	EFFICIENT AND EFFECTIVE REMOVAL OF TOLUENE FROM AQUEOUS SOLUTION USING MIL-100(Fe) Diana Catalina Verduzco Flores
P106	COVALENT ORGANIC FRAMEWORKS MEMBRANES FOR PHARMACEUTICALS' EXTRACTION FROM WATERS Joana Araújo
P107	SURFACE-CONFINED POLYMER ENGINEERING OF COVALENT ORGANIC FRAMEWORK MEMBRANES FOR ENHANCED REVERSE ELECTRODIALYSIS PERFORMANCE Ye Ji Shin
P108	FORMULATING FLEXIBLE MOFS FOR GAS SEPARATION Julia Duplessis-Kergomard
P109	SYNERGISTIC DUAL FUNCTIONALIZATION OF IONIC COVALENT ORGANIC FRAMEWORKS MEMBRANES FOR ENHANCED PROTON CONDUCTION WITH MONOMER ENGINEERING Nam Ho Kwon
P110	TAILORING COFs: TRANSFORMING NONCONDUCTING 2D LAYERED COF INTO A CONDUCTING QUASI-3D ARCHITECTURE VIA INTERLAYER KNITTING WITH POLYPYRROLE Chitvan Jain
P111	POST-SYNTHETIC METALATION OF Al-PMOF FOR ENHANCED VISIBLE-LIGHT CO ₂ PHOTOCONVERSION Seyed Soroush Mousavi Khadem
P112	SOLVENT-RESPONSIVE PYRAZOLATE PEPTIDE FRAMEWORKS: NAVIGATING THEIR THERMODYNAMIC LANDSCAPE Alechania Misturini
P113	HARNESSING SYNERGISTIC EFFECT OF Al AND Zn IN NOVEL BIMETALLIC MOF FOR SUPERIOR ENVIRONMENTAL POLLUTANTS ADSORPTION Ahmed Radwan
P114	CATALYTIC NANOSHEETS: CATALYSING REACTIONS IN WATER Alana Barlow
P115	DISORDER DRIVEN TRIPHENYLAMINE BASED MONOLITHIC COVALENT ORGANIC FRAMEWORK FOR THE EFFICIENT REMOVAL OF TOXIC OXO-ANIONS FROM WATER Arjun Warriar
P116	ZINC-BASED HIGHLY POROUS MOF FOR HIGHLY SENSITIVE AND SELECTIVE SENSING OF Fe ³⁺ IONS AND ORGANOARSENIC IN ENVIRONMENTAL WATER, FOOD, AND VEGETABLE SAMPLES IN AQUEOUS MEDIUM WITH THEORETICAL REVELATION Meet Chaudhary