



ZASA 2026 Programme

November, 5	
9:00	Registration
9:20	Welcome and Opening <i>E. Sastre (CSIC Coordinator for the Autonomous Community of Madrid, Spain)</i> <i>A. Castillo (Director of the Eduardo Torroja Institute for Construction Sciences, IETcc-CSIC, Spain)</i> <i>M. Romero (Coordinator of the Z-ONA4LIFE Project, IETcc-CSIC, Spain)</i>
9:45	Invited Lecture: Zeolitic catalysts obtained from natural mordenite from Spain. <i>I. Díaz (President of the Spanish Group of Zeolites, Spain)</i>
Session 1 (Chairman: <i>M.A. Cambor, ICMC-CSIC, Spain</i>)	
10:20	Zeolite synthesis using residue materials as silica and alumina source. <i>C. Belviso (CNR, Italy)</i>
10:40	Accelerated synthesis of titanium-beta zeolite using n-methyl-2-pyrrolidone and beta seeds. <i>H. Tabatabaeizadeh (University of Torino, Italy)</i>
11:00	Coffee
11:20	The role of aluminum as structure directing agent in the synthesis of zeolites. <i>G. Sastre (ITQ-CSIC, Spain)</i>
11:40	Cu- and Fe-KFI zeolites for Integrated control of NO _x and N ₂ O emissions. <i>B. Miao (Dalian Maritime University, China)</i>
Session 2 (Chairman: <i>C. Belviso, CNR, Italy</i>)	
12:00	Zeolite 13X-filled silicone composite foams for adsorption-driven climate control in electric vehicles. <i>L. Calabrese (University of Messina, Italy)</i>
12:20	Coupling framework Ti sites with Co/Fe-functionalized PDA shells: a core-shell platform for H ₂ O ₂ generation and selective oxidation catalysis. <i>H. Tabatabaeizadeh (University of Torino, Italy)</i>
12:40	Innovative zeolite membrane reactors for efficient conversion of methanol-to-dimethyl ether. <i>A. Brunetti (ITM-CNR, Italy)</i>
13:15	Lunch
Session 3 (Chair: <i>G. Sastre, ITQ-CSIC, Spain</i>)	
14:50	Upcycling waste into water treatment solutions: the potential of a waste-derived zeolite. <i>S.F. Lee (IETcc-CSIC, Spain)</i>
15:10	Iron (II)-modified natural zeolite as a sustainable reactive material for chromium (VI) removal from contaminated waters. <i>B.F.P. De Azevedo (University of Pisa, Italy)</i>
15:30	Assessing the role of synthetic NaX zeolite in electrocoagulation-based laundry greywater treatment: from synthetic models to real wastewater. <i>N. Vukojević-Medvidović (University of Split, Croatia)</i>
16:10	Treatment of dye-contaminated wastewater using waste-based NaP zeolite. <i>M. Ritter (Federal University of Santa Catarina, Brazil)</i>
16:30	MOF/ γ -Al ₂ O ₃ composites for the adsorption of greenhouse gases. <i>E. Díaz (University of Oviedo, Spain)</i>

17:00	Poster Presentation – Coffee (The authors will present their poster for five minutes)
P01	Adsorption of laccase onto zeolite for the biocatalytic degradation of emerging contaminants from water. <i>A. Diório (State University of Maringá, Brazil)</i>
P02	Potassium zeolite synthesis from mixture of rice husk ash and red mud. <i>C. Belviso (CNR, Italy)</i>
P03	HALZEOCAT-CM: removal of persistent halogenated pollutants by functionalized ultraporous zeolite catalysts. <i>M.A. Cambor (ICMM-CSIC, Spain)</i>
P04	Zeolite aggregates in mortar: temperature effects on mechanical properties. <i>S.M. Alexa-Stratulat (“Gheorghe Asachi” Technical University of Iasi Romania)</i>
P05	Preliminary study on microwave-assisted carbon dots coupled on industrial waste-synthesized zeolite creating advanced photoluminescent material. <i>S.F. Lee (IETcc-CSIC, Spain)</i>
P06	Effect of zeolites on PCB volatilization from a contaminated soil. <i>R.A Pérez (INIA-CSIC, Spain)</i>
P07	Combined application of zeolites and compost for the remediation of an acidic contaminated soil. <i>M. Gil-Díaz (IMIDRA, Spain)</i>
P08	Rheological and hardened properties of ternary cements containing zeolites. Impact of superplasticizers. <i>M. Palacios (IETcc-CSIC, Spain)</i>
November, 6	
9:30	Invited Lecture: Space Crystals for Earth Catalysis: Exploiting Microgravity for Advanced Zeolite Synthesis. <i>L. Gómez-Hortigüela (ICP-CSIC, Spain)</i>
	Session 4 (Chair: <i>G.N. Vayssilov, University of Sofia, Bulgaria</i>)
10:00	Design of mixtures and experiments for the synthesis of zeopolymerized lightweight aggregates. <i>N. Cotón (Autonomous University of Madrid, Spain)</i>
10:20	Synthetic zeolites as supplementary cementitious materials: performance assessment of cement reduction strategies. <i>P. Carballosa (IETcc-CSIC, Spain)</i>
10:40	Coffee
11:10	Life-cycle assessment of ZSM-5 catalyst obtained from natural mordenite from Spain. <i>I. Arnaiz (ICP-CSIC, Spain)</i>
11:30	Seed-assisted hydrothermal synthesis of highly crystalline mordenite. <i>S.K. Kovaïou (Aristotle University of Thessaloniki, Greece)</i>
11:50	Cesium immobilisation via pollucite formation: compatibility with magnesium potassium phosphate (MKPC) cements. <i>N. Husillos (IETcc-CSIC, Spain)</i>
	Session 5 (Chair: <i>J.M. Moreno Maroto, Autonomous University of Madrid, Spain</i>)
12:10	Nanosized zeolite NaA as filler for 6FDA-DAM membranes: from dense membranes to thin-films. <i>L. Güemes (INMA-CSIC, Spain)</i>
12:30	Computational modelling of the reaction intermediates for methane combustion on MnZSM-5 zeolite. <i>G. Vayssilov (University of Sofia, Bulgaria)</i>
12:50	Exploring the potential of sustainable zeolites in North America. <i>N. Vidaña (Progresum International SA, Mexico)</i>
13:10	Accelerating the market uptake of waste-derived zeolites: industrial, policy and innovation perspectives from the Z-ONA4LIFE project. <i>R. Giuffrida (Trust-IT, Italy)</i>
13:30	Closure and Lunch