



ZASA 2026 Programme

November, 5	
8:30	Registration
9:15	Welcome and Opening <i>E. Sastre (CSIC Coordinator for the Autonomous Community of Madrid, Spain)</i> <i>J.L. García-Calvo (Deputy 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>
9:40	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, ICMM-CSIC, Spain</i>)
10:10	Zeolite synthesis using residue materials as silica and alumina source. <i>C. Belviso (CNR, Italy)</i>
10:30	Accelerated synthesis of titanium-beta zeolite using n-methyl-2-pyrrolidone and beta seeds. <i>H. Tabatabaeizadeh (University of Torino, Italy)</i>
10:50	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>
13:00	Adsorption of laccase onto zeolite for the biocatalytic degradation of emerging contaminants from water. <i>A. Diório (State University of Maringá, Brazil)</i>
13:30	Lunch

	Session 3 (Chair: G. Sastre, ITQ-CSIC, Spain)
15:00	Upcycling waste into water treatment solutions: the potential of a waste-derived zeolite. S.F. Lee (IETcc-CSIC, Spain)
15:20	Iron (II)-modified natural zeolite as a sustainable reactive material for chromium (VI) removal from contaminated waters. B.F.P. De Azevedo (University of Pisa, Italy)
15:40	Assessing the role of synthetic NaX zeolite in electrocoagulation-based laundry greywater treatment: from synthetic models to real wastewater. N. Vukojević-Medvidović (University of Split, Croatia)
16:00	Treatment of dye-contaminated wastewater using waste-based NaP zeolite. M. Ritter (Federal University of Santa Catarina, Brazil)
16:20	MOF/ γ -Al ₂ O ₃ composites for the adsorption of greenhouse gases. E. Díaz (University of Oviedo, Spain)
16:40	Coffee
17:00	Poster Presentation (The authors will present their poster for five minutes)
P01	Potassium zeolite synthesis from mixture of rice husk ash and red mud. C. Belviso (CNR, Italy)
P02	HALZEOCAT-CM: removal of persistent halogenated pollutants by functionalized ultraporous zeolite catalysts. M.A. Cambor (ICMM-CSIC, Spain)
P03	Zeolite aggregates in mortar: temperature effects on mechanical properties. S.M. Alexa-Stratulat ("Gheorghe Asachi" Technical University of Iasi Romania)
P04	Preliminary study on microwave-assisted carbon dots coupled on industrial waste-synthesized zeolite creating advanced photoluminescent material. S.F. Lee (IETcc-CSIC, Spain)
P05	Effect of zeolites on PCB volatilization from a contaminated soil. R.A Pérez (INIA-CSIC, Spain)
P06	Combined application of zeolites and compost for the remediation of an acidic contaminated soil. M. Gil-Díaz (IMIDRA, Spain)
P07	Rheological and hardened properties of ternary cements containing zeolites. Impact of superplasticizers. M. Palacios (IETcc-CSIC, Spain)

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

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