

## Publications

**Dendritic nanoarchitecture imparts ZSM-5 zeolite with enhanced adsorption and catalytic performance in energy applications.**

Journal of Energy Chemistry. 2023, 80, 77-88. DOI: [10.1016/j.jechem.2023.01.023](https://doi.org/10.1016/j.jechem.2023.01.023).

**Synthesis of Dendritic ZSM-5 Zeolite through Micellar Templating Controlled by the Amphiphilic Organosilane Chain Length.**

Crystal Growth & Design. 2023, 23, 8, 5658–5670. DOI: [10.1021/acs.cgd.3c00326](https://doi.org/10.1021/acs.cgd.3c00326).



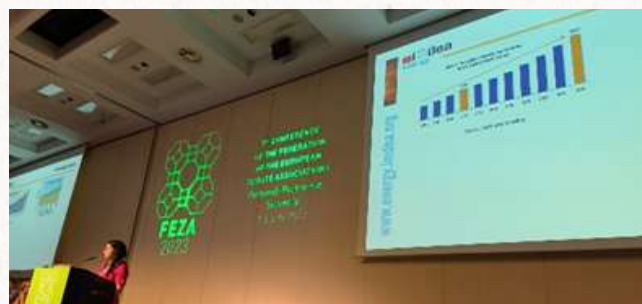
## Communications in congresses

- Opportunities and challenges of zeolite catalysts for the production of sustainable fuels. David Serrano. Conference of the Federation of the European Zeolite Associations (FEZA2023). 2 – 6, July, 2023. Portoroz, Slovenia. (*Plenary Lecture*)
- Advances and challenges in the waste plastics valorization by means of catalytic processes. David Serrano. 22 Brazilian Congress of Catalysis. 25 – 29 September. Bento Gonçalves, Brazil. (*Plenary Lecture*)
- Adsorption equilibrium and kinetics of hydrocarbons on ZSM-5 zeolites with different pore structures. A. S. Oliveira, M. Alonso-Doncel, Patricia Horcajada, R. A. García-Muñoz, D. P. Serrano. 8th International Workshop on Layered & Nanostructured Materials, Toledo, Spain 10th -13th July 2022.
- Influence of the Si/Al ratio on the synthesis of dendritic ZSM-5. M. Alonso-Doncel; E. A. Giner; D. P. Serrano. 2023. Liblice, Czech Republic.
- Synthesis of ZSM-5 zeolite in the presence of C18 surfactants: from mesophases to nanocrystals and dendritic nanoarchitectures. Alonso-Doncel, María, Giner, Elena A., Serrano, David P. 9th Czech – Italian – Spanish Conference on Molecular Sieves and Catalysis (CIS-9). June 4 – 7, 2023. Toledo, Spain.



## Communications in congresses

- Tuning the properties of dendritic ZSM-5 zeolite synthesized by protozeolitic nanounits functionalization with amphiphilic organosilanes. 9th Conference of the Federation of the European Zeolite Associations (FEZA2023). E. A. Giner, A. Oliveira, D. de la Calle, J. Cueto, P. Horcajada, R. A. García-Muñoz, D. P. Serrano. 2 - 6, July, 2023. Portoroz, Slovenia.
- Dehydrogenation of propane to propylene over Pt and Ga MFI zeolites. A. S. Oliveira, M. Alonso-Doncel, J. Cueto, M. Kubů, R. A. García-Muñoz, J. Čejka, D. P. Serrano. 9th Conference of the Federation of the European Zeolite Associations (FEZA), July 2nd - 5th 2023 in Portoroz, Slovenia.
- Propane dehydrogenation over Pt and Ga-containing MFI zeolites with modified acidity and textural properties. A. S. Oliveira, M. Alonso-Doncel, J. Cueto, M. Kubů, J. Čejka, D. P. Serrano, R. A. García-Muñoz. 9th Czech - Italian- Spanish Conference on Molecular Sieves and Catalysis (CIS-9), June 4th -7th 2023 in Toledo, Spain.
- Dendritic ZSM-5 zeolites as promising catalysts to obtain jet fuel intermediates through furfural and cyclopentanone aldol condensation. D. de la Calle, J. Cueto, M. M. Alonso-Doncel, E. A. Giner, R. A. García-Muñoz, D. P. Serrano. 9th Czech - Italian- Spanish Conference on Molecular Sieves and Catalysis (CIS-9), June 4th -7th 2023 in Toledo, Spain.



## International stays

Fatima Marcieli. Predoctoral researcher at Universidade Federal do Rio Grande do Norte, UFRN (Natal, Brasil). Stay period at IMDEA Energy: 30/01/2023 - 17/03/2023.

M<sup>a</sup> del Mar Alonso-Doncel. Postdoctoral researcher at IMDEA Energy Institute. Stay period at Universidade Federal do Rio Grande do Norte, UFRN (Natal, Brasil): 16/04/2023 - 25/06/2023.

## Next events

International Zeolitic Materials School  
10-12TH APRIL 2024 ZAMORA, SPAIN  
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