

IULIEAN-VASILE ASAFTEI

Research themes:

- **Heterogeneous catalysis:** synthesis and characterization of zeolite micro- / nanoporous materials with practical applicability.

(b.1961)

Heterogeneous catalysis: synthesis and characterization of micro - / nanoporous and mesoporous materials used as catalysts in: petrochemical processes, organic synthesis and environmental protection

Keywords: zeolites, heterogeneous catalysis, nano-micro and mesoporous materials.

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Heterogeneous
catalysis
Technological and
materials chemistry

Publications (selection)

Pavel, C.C., Nagy, J.B., Bilba, N., Nastro, A., Perri, C., Vuono, D., De Luca, P., **Asaftei, I.V.**, Influence Of The Taabr Salts On The Crystallization Of Ets-10, *Microporous and Mesoporous Materials* 71 (1-3): p.77-85, **2004**.

Asaftei, I., Bilba, N., Sandu, I., Conversion of C4 –C4= technical fraction over zinc-cooper zsm-5 catalyst, *Rev. Chim.* (Bucharest): 65, No.6. p.697-702, **2014**.

Bilba, N., **Asaftei, I.**, Iofcea, G.H., Padurariu, D.M., Pavel, C.C., Proceedings of the 13th international zeolite conference, montpellier, france, 8-13 july, 2001, 24-p-30, A. Galarnau, F. Di Renzo, F. Fajula, J. Vadrine, (eds.), *Studies in surface science and catalysis*, 135p. 2791, **2001**.

Pavel, C.C., Vuono, D., **Asaftei, I.**, De Luca, P., Bilba, N., Nagy, J.B., Nastro, A. Study of the thermal dehydration of metal-exchanged ETS-10 titanosilicate , *Molecular Sieves: From Basic Research To Industrial Applications, Pts A And B Studies In Surface Science And Catalysis* 158: p.805-812, Part A-B, **2005**.

Bilba, N., Naum, N., Anastasiu, V., Vintan, L., Mincu, A., Iofcea, Gh., **Asaftei, I.**, Holerga, C., Romanian Patent., 110809B1 int.cl6 (01 B 33/26), 1996. Industrial patent applied to SC "Carom" S.A. Romania. *The gold medal of the '45th world exhibition of invention, research and industrial innovation BRUSSELS EUREKA* **1996**.

Bilba, N., Anastasiu, V., Iofcea, Gh., Lupascu, M., **Asaftei, I.**, RO Patent, 115251, Nov. **1999**. Industrial patent applied to SC "Carom" S.A. Romania.