

Dr. Mohammad Rostamizadeh

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A) PERSONAL DETAILS

Full Name: Mohammad Rostamizadeh

Date of Birth: May, 8, 1986

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B) EDUCATION

- ❖ **Ph.D. Student, Dept. of Chemical Engineering**, Iran University of Science and Technology (IUST), Tehran, IRAN, (Sept. 2011 – 2015).
- ❖ **M. Sc., Dept. of Chemical Engineering**, Tarbiat Modares University (TMU), Tehran, IRAN, (Jan. 2010).
- ❖ **B. A., Dept. of Chemical Engineering**, Sahand University of Technology (SUT); Tabriz, IRAN, (Aug 2008).

C) PUBLICATIONS

- Hajian, M. Rostamizadeh, **Nickel promoted Si-rich ZSM-5 nanocatalyst remarkably converts LDPE plastic waste to gasoline range hydrocarbons in a dual-bed semi-batch reactor at atmospheric pressure**, Journal of Analytical and Applied Pyrolysis 173 (2023) 106051.
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- S Rahimi, M Rostamizadeh, **“Novel Fe/B-ZSM-5 nanocatalyst development for catalytic cracking of plastic to valuable products”**, Journal of the Taiwan Institute of Chemical Engineers, 118 (2021) 131-139.
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- S. Amani, M. Rostamizadeh, A. Ghadimi, **Highly active Fe-doped ZIF-8 nanocatalyst in electrochemical degradation of pharmaceutical pollutant in neutral environment**, Journal of Water and Environmental Nanotechnology, 6 (2021) 138-149.
- H. Adel Niaei, M. Rostamizadeh, F. Maasumi, J. Darabi, **Kinetic, Isotherm, and Thermodynamic Studies of Methylene Blue Adsorption over Metal-doped Zeolite Nano-adsorbent**, Phys. Chem. Res., 9 (2021) 17-30.
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- M. Rostamizadeh, F. Yaripour, H. Hazrati, **Selective production of light olefins from methanol over desilicated highly siliceous ZSM-5 nanocatalysts**, *Polyolefins Journal*, 5 (2018) 59-70.
- H. Hazrati, M. Rostamizadeh, M.R. Omidkhah, Z. Sadeghian, **Influence of synthesis and operating parameters on silicalite-1 membrane properties**, *Comptes Rendus Chimie*, 21 (2018) 19-26.
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- A. Jafarizad, M. Rostamizadeh, M. Zarei, S. Gharibian, **Mitoxantrone removal by electrochemical method: A comparison of homogenous and heterogenous catalytic reactions**, *Environmental Health Engineering and Management Journal*, 4 (2017) 185-193.
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- M. Rostamizadeh, S.M.H. Rizi, **Predicting gas flux in silicalite-1 zeolite membrane using artificial neural networks**, *Journal of Membrane Science*, 403–404 (2012) 146-151.

❖ **OTHER PAPERS PRESENTED AT CONFERENCES**

- M. Rostamizadeh, and F. Yaripour; “**Synthesis and characterization of H-ZSM-5 catalyst for light olefin production from methanol**”; the conference of Applied chemistry, Tabriz, Iran, August, 23-24, 2017.
- M. Rostamizadeh, and F. Yaripour; “**High selective propylene production over long-term zeolite catalyst**”; the conference of Applied chemistry, Tabriz, Iran, August, 23-24, 2017.

- H. Hazrati, M. Rostamizadeh, and H. Asadi; “**Membrane bioreactor treating petrochemical wastewater: Experimental and fuzzy model**”, Tehran, Iran, May, 23-24, 2017.
- Rostamizadeh; M., M. R. Omidkhah; and Z. Sadeghian. “**Effects of synthesis parameters on the nanostructure MFI zeolite membrane growth**”, the 4th International Conference on Nanostructures (ICNS4); Kish, Iran, 12-14 March, 2012. (Poster section)
- Rostamizadeh; M., M. R. Omidkhah; and Z. Sadeghian. “**Synthesis and characterization of nanostructure MFI zeolite membrane**”, 7th International Chemical Engineering Congress & Exhibition; Kish, Iran, 21-24 November, 2011. (ORAL section)
- Rostamizadeh; M., M. R. Omidkhah; and Z. Sadeghian. “**Synthesis and characterization of Silicalite-1 membrane**”, the 1th Iranian National of membrane and membrane processes; Tehran University, Tehran, Iran. February 15–17, 2011. (ORAL section)
- Rostamizadeh; M., M. R. Omidkhah, and Z. Sadeghian. “**Effect of synthesis parameters on microstructure of Silicalite-1 membrane**”; 13th Iranian National Chemical Engineering Congress; Kermanshah, Iran, 25-28 October, 2010. (ORAL section)

F) RESEARCH INTERESENTS

- ✓ Environmental Engineering
- ✓ Catalyst (synthesis and characterization)
- ✓ Zeolite
- ✓ MOF&ZIF
- ✓ Kinetic and modeling