



## Fereshteh Meshkani

Assistant Professor

College: Faculty of Engineering

Department: Chemical Engineering

### Education

Degree	Graduated in	Major	University
BSc	2006	Chemical Engineering	Persian Gulf University
MSc	2010	Chemical Engineering	University of Kashan
Ph.D	2015	Chemical Engineering	University of Kashan

### Employment Information

Faculty/Department	Position/Rank	Employment Type	Cooperation Type	Grade
(not set)	(not set)	Tenure Track	Full Time	10

### Papers in Journals

1. NS Maboudi, F Meshkani, M Rezaei, Effect of mesoporous nanocrystalline supports on the performance of the Ni Cu catalysts in the high-temperature water-gas shift reaction, Journal of the Energy Institute, 2021.
2. Dehghanpoor, & Gharashah, M Rezaei, F Meshkani, Preparation and improvement of the mesoporous nanostructured nickel catalysts supported on magnesium aluminate for syngas production by glycerol dry reforming, International Journal of Hydrogen Energy, 2021.
3. R Daroughegi, F Meshkani, M Rezaei. Enhanced low-temperature activity of CO<sub>2</sub> methanation over ceria-promoted Ni-Al<sub>2</sub>O<sub>3</sub> nanocatalyst. Chemical Engineering Science. 2021.
4. MMA Shirazi, S Bazgir, F Meshkani, A dual-layer, nanofibrous styrene-acrylonitrile membrane with hydrophobic/hydrophilic composite structure for treating the hot dyeing effluent by direct contact membrane, Chemical Engineering Research and Design, 2020.
5. , S Karimi, F Bibak, F Meshkani, A Rastegarpanah, J Deng, Y Liu, H Dai, Promotional roles of second metals in catalyzing methane decomposition over the Ni-based catalysts for hydrogen production: A critical review, International Journal of Hydrogen Energy, 2021.
6. R Daroughegi, F Meshkani, M Rezaei, Enhanced low-temperature activity of CO<sub>2</sub> methanation over ceria-promoted Ni-Al<sub>2</sub>O<sub>3</sub> nanocatalyst, Chemical Engineering Science, 2020.

7. Z Taherian, VS Gharahshiran, A Khataee, F Meshkani, Y Orooji, Comparative study of modified Ni catalysts over mesoporous CaO-Al<sub>2</sub>O<sub>3</sub> support for CO<sub>2</sub>/methane reforming, *Catalysis Communications*, 2020.
8. Ali Rastegarpanah, Fereshteh Meshkani, Yuxi Liu, Jiguang Deng, Lin Jing, Wenbo Pei, Kunfeng Zhang, Zhiquan Hou, Zhuo Han, Mehran Rezaei, and Hongxing Dai, Toluene Oxidation over the M Al (M = Ce, La, Co, Ce La, and Ce Co) Catalysts Derived from - -Induced Self-Assembly Method: Effects of Microwave or Ultrasound Irradiation and Noble-Metal Loading on Catalytic Activity and Stability, *Ind. Eng. Chem. Res.*, 2020.
9. NS Maboudi, F Meshkani, M Rezaei, Effect of mesoporous nanocrystalline supports on the performance of the Ni Cu catalysts in the high-temperature water-gas shift reaction, *Journal of the Energy Institute*, 2020.
10. Rezaei, P., Rezaei, M., Meshkani, F., Ultrasound-assisted hydrothermal method for the preparation of the M-Fe<sub>2</sub>O<sub>3</sub>-CuO (M: Mn, Ag, Co) mixed oxides nanocatalysts for low-temperature CO oxidation, *Ultrasonics Sonochemistry*, 2019.
11. Ghiasee, M., Rezaei, M., Meshkani, F., Mobini, S, Preparation and optimization of the MnCo<sub>2</sub>O<sub>4</sub> powders for low temperature CO oxidation using the Taguchi method of experimental design, *Research on Chemical Intermediates*, 2019.
12. Rastegarpanah, A., Rezaei, M., Meshkani, F., Zhang, K., Zhao, X., Pei, W., Liu, Y., Deng, J., Arandiyan, H. and Dai, H, Influence of group VIB metals on activity of the Ni/MgO catalysts for methane decomposition. *Applied Catalysis B: Environmental*, *Applied Catalysis B: Environmental*, 2019.
13. Moghaddam, S.V., Rezaei, M., Meshkani, F. and Daroughegi, R, Synthesis of nanocrystalline mesoporous Ni/Al<sub>2</sub>O<sub>3</sub>SiO<sub>2</sub> catalysts for CO<sub>2</sub> methanation reaction, *International Journal of Hydrogen Energy*, 2018.
14. Tavanarad, M., Meshkani, F. and Rezaei, M, Production of syngas via glycerol dry reforming on Ni catalysts supported on mesoporous nanocrystalline Al<sub>2</sub>O<sub>3</sub>, *Journal of CO<sub>2</sub> Utilization*, 2018.
15. VS Gharahshiran, Z Taherian, A Khataee, F Meshkani, Y Orooji, Samarium-impregnated nickel catalysts over SBA-15 in steam reforming of CH<sub>4</sub> process, *Journal of Industrial and Engineering Chemistry*, 2020.
16. Rastegarpanah, A., Rezaei, M., Meshkani, F., Zhang, K., Zhao, X., Pei, W., Liu, Y., Deng, J., Arandiyan, H. and Dai, H, Mesoporous Ni/MeO<sub>x</sub> (Me= Al, Mg, Ti, and Si): Highly efficient catalysts in the decomposition of methane for hydrogen production, *Applied Surface Science*, 2019.
17. Journal of the Energy Institute. Characterization and evaluation of mesoporous high surface area promoted Ni-Al<sub>2</sub>O<sub>3</sub> catalysts in CO<sub>2</sub> methanation, *Journal of the Energy Institute*, 2019.