

## Education

- **Polytechnique Montreal, Montreal, QC, Canada** (Since Jan, 2021)  
*Ph.D. Student, Department of Chemical Engineering*
  
- **Babol (Noshirvani) University of Technology, Babol, Iran** (2014 - 2016)  
*M.Sc. of Nano-biotechnology, Department of Chemical Engineering*
  
- **Sciences and Researches University, Tehran, Iran** (2010 - 2013)  
*B.Sc. Degree, Department of Chemical Engineering*

## Research Interests

- Separations and desalination
- Energy and renewable energy
- Biomass recycling and bio-oil generation
- Environmental engineering

## Work Experience

- “Team-Solution” Science-based Organization      CEO and Stock-holder      (2017-2021)
- NedMedica International Publication      Production Manager      (2017-2018)
- Kowsar International Publication      Head of Indexing Group      (2016-2017)

## Expertise

- Membranes fouling and biofouling mitigation
- In-situ fabrication of metal nanoparticles
- Biomass and environmental engineering

## Journal Publications

- Ariazadeh, Maryam, Zahra Farashi, Navid Azizi\*, and **Mohammad Khajouei**. "Influence of functionalized SiO<sub>2</sub> nanoparticles on the morphology and CO<sub>2</sub>/CH<sub>4</sub> separation efficiency of Pebax-based mixed-matrix membranes." *Korean Journal of Chemical Engineering* 37, no. 2 (2020): 295-306.
- Jalilian, Neda, Ghasem D. Najafpour, and **Mohammad Khajouei**\*. "Macro and micro algae in pollution control and biofuel production—a review." *ChemBioEng Reviews* 7, no. 1 (2020): 18-33.
- Mirmousaei, S. Mona, Majid Peyravi, **Mohammad Khajouei**\*, Mohsen Jahanshahi, and Soodabeh Khalili. "Preparation and characterization of nano-filtration and its photocatalytic abilities via pre-coated and self-forming dynamic membranes developed by ZnO, PAC and chitosan." *Water Science and Technology* 80, no. 12 (2019): 2273-2283.
- **Mohammad Khajouei**\*, Mahsa Najafi, and Seyed Ahmad Jafari. "Development of ultrafiltration membrane via in-situ grafting of nano-GO/PSF with anti-biofouling properties." *Chemical Engineering Research and Design* 142 (2019): 34-43.
- Jalilian, N., G. D. Najafpour, and **Mohammad Khajouei**\*. "Enhanced vitamin B12 production using *Chlorella vulgaris*." *International Journal of Engineering* 32.1 (2019): 1-9.
- **Mohammad Khajouei**, Mohsen Jahanshahi, and Majid Peyravi\*. "Biofouling mitigation of TFC membrane by in-situ grafting of PANI/Cu couple nanoparticle." *Journal of the Taiwan Institute of Chemical Engineers* 85 (2018): 237-247.
- **Mohammad Khajouei**, Majid Peyravi, and Mohsen Jahanshahi\*. "The potential of nanoparticles for upgrading thin film nanocomposite membranes—a review." *Journal of Membrane Science and Research* 3, no. 1 (2017): 2-12.
- **Mohammad Khajouei**, Mohsen Jahanshahi\*, Majid Peyravi, Hamzeh Hoseinpour, and Ali Shokuhi Rad. "Anti-bacterial assay of doped membrane by zero valent Fe nanoparticle via in-situ and ex-situ aspect." *Chemical Engineering Research and Design* 117 (2017): 287-300.

## Conference Publications

- **Mohammad Khajouei**, Mohsen Jahanshahi, Majid Peyravi\*, "Developing Thin Film Nanocomposite Membrane with in situ Preparation of Iron Nanoparticle", The 9th International Chemical Engineering Congress & Exhibition (IChEC 2015), Shiraz, Iran, Dec, 2015.
- Fateme Esfandian, Majid Peyravi, Ali Asghar Ghoreyshi, Mohsen Jahanshahi\*, **Mohammad Khajouei**, "Developing Thin Film Nanocomposite Membrane with in situ Preparation of Iron Nanoparticle", The 9th International Chemical Engineering Congress & Exhibition (IChEC 2015), Shiraz, Iran, Dec, 2015.
- **Mohammad Khajouei**, Mohsen Jahanshahi\*, Majid Peyravi, "Effect of Functionalization of Activated Carbon in the Ultrafiltration Membrane on the COD Removal and the Water Flux", The 12th International Conference on Membrane Science and Technology (MST2015), Tehran, Iran, Nov, 2015.
- **Mohammad Khajouei**, Majid Peyravi, Mohsen Jahanshahi\*, "Effect of Temperature on COD Removal and Water Flux in the PSF membrane with the Functionalized Activated Carbon", The 12th International Conference on Membrane Science and Technology (MST2015), Tehran, Iran, Nov, 2015.



## Book Publications

- **Mohammad Khajouei**, Peyman Pouresmaeel-Selakjani, and Mohammad Latifi. Chapter 9: "Spectroscopy and Other Miscellaneous Techniques for the Characterization of Bio-epoxy Polymers, Their Blends, and Composites." Book title: Bio-Based Epoxy Polymers, Blends and Composites: Synthesis, Properties, Characterization and Applications, Wiley Publication, USA (2021): 116.
- Majid Peyravi, **Mohammad Khajouei**, "Investigation on Solvent Resistant Nanofiltration Membranes Generation", Lambert Publication, Germany, 2016-07-21, ISSN-13: 978-3-659-92422-4

## Contacts:

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**Google Scholar:** "Mohammad Khajouei"