

# MAHMOUD MALEKI

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## Education

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**M.Sc.: Process Engineering Department, Faculty of Chemical Engineering, Tarbiat Modares University, Tehran, Iran, (2018-Present)**

**B.Sc.: Chemical Engineering Department, Energy faculty, Kermanshah University of Technology, Kermanshah, Iran, (2013-2017)**

## Research Interests

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- Biodiesel
- Micro-reactor
- Renewable Energy
- CO<sub>2</sub> Capture
- Solar Steam Generation
- Waste Water Treatment

## Publications

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- **Journal papers:**

1. M. Mohadesi, B. Aghel, **M. Maleki**, A.R. Ansari, Production of biodiesel from waste cooking oil using a homogeneous catalyst: study of semi-industrial pilot of microreactor, *Renewable Energy* 139, (2019), 677-682
2. B. Aghel, M. Mohadesi, A.R. Ansari, **M. Maleki**, Pilot-scale production of biodiesel from waste cooking oil using kettle lime scale as a heterogeneous catalyst, *Renewable Energy* 142, (2019), 207-214
3. M. Mohadesi, B. Aghel, **M. Maleki**, A.R. Ansari, The use of KOH/Clinoptilolite catalyst in pilot of microreactor for biodiesel production from waste cooking oil, *Fuel*, 263, (2020), 116659
4. M. Mohadesi, B. Aghel, **M. Maleki**, A.R. Ansari, Study of the transesterification of waste cooking oil for the production of biodiesel in a microreactor pilot: The effect of acetone as the co-solvent, *Fuel*, 273, (2020), 117736

- **Conference papers:**

1. B. Aghel, **M. Maleki**, A.R. Ansari, Investigating the production of drinking water from moisture in natural air by thermosyphon, 3<sup>rd</sup> International Conference of IEA Technology and Energy Management, (2017), Tehran, Iran.
2. B. Aghel, **M. Maleki**, A.R. Ansari, Comparison and optimization of natural and forced flow in drinking water production by thermosyphon in Bushehr, International Conference on Technology & Green Energy, (2017), Kermanshah, Iran.
3. B. Aghel, **M. Maleki**, A.R. Ansari, Increase in crude oil transfer using drag-reducing agents

in Shadegan oil field 8-inch pipeline, 5<sup>th</sup> International Conference on Recent Innovations in Chemistry and Chemical Engineering, (2018), Tehran, Iran.

4. M. Mohadesi, B. Aghel, **M. Maleki**, A.R. Ansari, Biodiesel production using waste cooking oil in a micro-pilot, 5<sup>th</sup> International Conference on Applied Research in Chemistry and Chemical Engineering focusing on local technology, (2018), Tehran, Iran

## Honors & Awards

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- Awarded the best thesis in the field of energy at 5<sup>th</sup> International Conference on Technology and Energy Management
- Ranked 1 among 10 classmates in M.Sc. Energy Engineering class of 2020
- Ranked 5 among 41 classmates in B.Sc. Chemical Engineering class of 2017
- Recipient of excellent grade for B.Sc. thesis
- Participation in the 10<sup>th</sup> National Chemcar Competition in Isfahan 1394
- Student job in Kermanshah Petrochemical Industries Company, (K.P.I.C)

## Memberships

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- Member of Council of Management and Planning of Iranian National Citation Center (2019)
- Member of Iran Energy Association (IEA), Tehran, Iran (2016-Now)
- Member of Iranian Association of chemical engineers (IACE), Tehran, Iran (2018-Now)
- Member of Iranian Science and Technology Society (2019)
- Member of Scientific Association of Chemical Engineering Students at Tarbiat Modares University (2019-2020)

## Teaching Experience

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- Presented workshop in solid works 2014 for students of Kermanshah University of Technology, fall 2017.

## Computer Skills

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- **Programming:** Matlab, C++
- **Simulation:** Aspen plus, Comsol Multiphysics, Ansys Fluent
- **Engineering:** Solid works, Design Expert, Microsoft Project, High Score Plus, Labview
- **Other:** Microsoft Office (Advance), Mendeley, Edramax, Microsoft Visio

## Language Proficiency

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**Persian:** Native

**English:** Fluent

## Hobbies & interests

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Reading book, Camping, Mountain climbing, Adventure enthusiast, walking, Chess