Curriculum Vitae

Leila Khazini, Ph.D.

Birth Date: 01 Sep 1977

Assistant Professor, Chemical Engineering and Petroleum Faculty, University of Tabriz, 29 Bahman Blvd., Tabriz, Iran

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Positions

Present: Academic Staff- University of Tabriz (from 2013 –to now on)

Past: Environmental Engineer- Tabriz Oil Refining Company (2005- 2013)

Education

Ph.D.: Chemical engineering- environmental engineering, Sahand University of Technology, Tabriz, Iran (2006- 2011).

M.S: Chemical engineering- environmental engineering, Sahand University of Technology, Tabriz, Iran (2001- 2004).

B.S: Chemical engineering- Petrochemical industry, Sahand University of Technology, Tabriz, Iran (1996- 2000).

Research Field

- ✓ **Air Pollution**
  - **Urban Air Pollution**
  - **Transport Related Air Pollution**
  - **Industrial and Stationary Sources Air Pollution**
- ✓ **Environmental engineering**
- ✓ **Green Productivity Material Flow Cost Accounting**
- ✓ **Fuels and Petroleum Refining Processes**

Honor

- **Selected professor of communication with industry and society**, Ministry of Science, Research and Technology, Iran (2020)
- **Selected professor of Technology**, University of Tabriz, Tabriz, Iran (2020)
- **Selected professor of Technology,** University of Tabriz, Tabriz, Iran (2018)
- Employment in "Iranian oil refining and distribution Company**" as a talented graduate** (2005)

Membership of Professional Societies

- Council Of Technology, University of Tabriz
- HSE committee, University of Tabriz
- HSE Representative of Chemical Engineering and Petroleum Faculty
- Board of Consultant of Journal of Civil and Environmental Engineering, University of Tabriz
- Iran Productivity Development Association
- Iran Chemical Engineering Association
- Iranian Society of Environmentalists (IRSEN)

Research Experience

1. **Administrator** of “Collection and treatment of emitted volatile organic compound from wastewater treatment unit” project, Founded by Tabriz Refining Oil Company, (2020- 2021)
2. **Administrator** of Tabriz megacity section of “Compilation of Emission Inventory of Air Pollution Sources in the Iranian Megacity” project, Founded by Iran Deportment of Environment (DOE), (2018- 2020)
3. **Administrator** of “Investigation and modelling of traffic related air pollution in Tabriz city, a megacity of Iran and solution suggestion to control it” project, Founded by Centre for International Scientific Studies and Collaboration (CISSC), (2018- 2020)
4. **Administrator** of "Survey on Application of Environmental & Material Flow Cost Accounting in Optimizing of Industries" Project, Founded by University of Tabriz (2014-2015)
5. **Researcher** of "Kinetic Modeling and Laboratory Scale Study of Simultaneous Removal of exhaust Pollution from Sulfur Recovery Plants in an Oil Refinery" Project, Founded by Iranian oil refining and distribution Company (2010 -2013)

6. **Researcher** of "Optimization of Air Pollution Monitoring Stations in Tabriz Oil Refining Company" Project, Founded by Tabriz Oil Refining Company (2011 - 2013)
7. **Researcher** of "Optimization of Biological Wastewater Treatment in Tabriz Oil Refining Company" Project, Founded by Tabriz Oil Refining Company (2007 - 2009)

Teaching Experience

Graduate (PhD & MS):

- Advanced Control of Air Pollution (2015 – continue)
- Conceptual Process Design (2020 – continue)
- Advanced Reactor Design (2018 – continue)
- Advanced Water and Wastewater Treatment Processes (2015 – 2018)
- "Experimental Design for Chemical Engineering" workshop (2011)

Undergraduate:

- Utility Systems (2020 – continue)
- Workshop of Engineering Drawings (2020 – continue)
- Environmental Engineering (2007 – 2020)
- Unit Operation 2 (2015- Environmental engineering (2007 – continue)
- An Introduction to Petroleum Engineering (2013- continue)
- Workshop of Chemical Engineering Software's (2013- 2015)

Supervision

Dissertation

1. "Chemical characterization and source apportionment of Particulate Matters in urban environment of Tabriz megacity using receptor models", Pedram Vousoughi- **in Progress**
2. "Life cycle and carbon footprint assessment in dairy industries located in Industrial estates of East Azerbaijan province to decrease the negative environmental impacts", Elham Yagooti- **in Progress**
3. "VOC treatment in petroleum refinery", Warqaa Shemri- **in Progress**

Thesis

1. " Study of exhaust gaseous pollutants from motor vehicles in separation of light and heavy-duty vehicles with emphasis on the type and grade of the roads ", Mohammad Dashti- **in Progress**

2. " Study of exhaust PM2.5 and nonexhaust TSP, PM10, PM2.5, PM1 and PM0.5 emissions in separation of light and heavy-duty vehicles ", Hojjat Khanloo- **in Progress**
3. " Study of road type impact in vehicular Exhaust PM2.5 and nonexhaust TSP, PM10, PM2.5, PM1 and PM0.5 emissions ", Ali Haji- **in Progress**
4. " Experimental Study of black carbon and organic carbon in particulate matters In Tabriz In order to determine the mobile resources contribution In their production ", Morteza Mohammadzadeg- **in Progress**
5. " Feasibility study of volatile organic compound removal from polluted air in gasoline refueling stations by adsorption process", Sahar Hajavi- **in Progress**
6. " Investigation of type and quantity of heavy metals emitted from Naji industrial town of Zanjan and determination of their dispersion radius ", Kimia Fotovvat- **Finished**
7. " Experimental study of the type, amount and effects of pollutants emitted from refueling stations in Tabriz Megacity and determination of their dispersion radius", Amin Morshedi- **Finished**
8. " Experimental study of the type and amount of volatile organic compounds emitted from wastewater treatment plants in oil refineries and providing solutions to reduce emissions ", Shabnam Ziaee- **Finished**
9. " An experimental study on types and amounts of Volatile Organic Compounds in printing industry and solution for controlling them ", Farshad Ahmadilar- **Finished**
10. " Experimental survey on concentration of heavy metals in air particulates emitted by Zinc industries and determine source contributions to air pollution", Rana Rafiee- **Finished**
11. " Study the dispersion of pollutants from the industrial zone of west of Tabriz to investigate the quantity of efficacy in Tabriz metropolitan area", Amir Sadegfamian- **Finished**
12. " Assessing air pollution emitted from Salimi Industrial town, determining the radius of air pollution and its impact on residential areas around", Morteza Pardepoosh- **Finished**
13. "Investigation of PM $_{2.5}$ Emitted from the Gasoil Vehicles and Its Portion in the $PM_{2.5}$ Content of the City ", Khashayar Giami- **Finished**
14. "Investigation of Pollution Emitted from the Gasoil vehicles and Modeling of it", Mehdi Eyvazpoor – **Finished**
15. " Investigation of Pollution Emitted from the Gasoline Vehicles and Modeling of it", Mina Jamshidi - **Finished**
16. "Survey and Modeling of PM Emissions in Tabriz and Developing of Emissions Inventory and Solution Suggestion to Control it", Shahrzad Kalantari – **Finished**
17. **"**Optimization of Atmospheric Distillation Tower of an Oil Refinery Using Material Flow Cost Accounting", Hessameddin Amiri- **Finished**
18. **"** Material Flow Cost Accounting Application for Optimization of Vacuum Distillation Tower of an Oil Refinery ", Nasrin Vaezi- **Finished**

Journal Publication

- **L. Khazini,** MJ. Kalajahi, N. Blond, "An analysis of emission reduction strategy for light and heavy-duty vehicles pollutions in high spatial–temporal resolution and emission", Environmental Science and Pollution Research, 2021.
- **L. Khazini**, ME Dehkharghanian, A Vaezihir; "Dispersion and modeling discussion of aerosol air pollution caused during mining and processing of open-cast mines", International Journal of Environmental Science and Technology, online March 2021.
- MJ. Kalajahi, **L. Khazini,** Y. Rashidi, SZ. Heris; "Development of Reduction Scenarios Based on Urban Emission Estimation and Dispersion of Exhaust Pollutants from Light Duty Public Transport: Case of Tabriz, Iran", Emission Control Science and Technology, Volume 6, Issue 1, 2020.
- N. Banan Baghbani, J. Azamat, H. Erfan-Niya, S. Majidi, **L. Khazini**; "Molecular insights into water desalination performance of pristine graphdiyne nanosheet membrane", Journal of Molecular Graphics and Modelling, Volume 101, 2020.
- Y. Mohammadfam, ZS.i Heris, **L. Khazini**; "Experimental Investigation of Fe3O4/hydraulic oil magnetic nanofluids rheological properties and performance in the presence of magnetic field", Tribology International, Volume 142, 2020.
- **L. Khazini**, MJ. Kalajahi, N. Blond; "Investigation of Emissions and Dispersion of Pollutants from Cars in Tabriz City", Journal of Civil and Environmental Engineering, Volume 49, Issue 96, 2019.
- **L. Khazini,** MJ. Kalajahi, KQ. Giashi, Kh. Ashrafi; "Investigation of Emission and Dispersion of PM2.5 Pollutant Emitted from BRT Buses in Tabriz City", Journal of Civil and Environmental Engineering, Volume 101, Issue 101, 2020.
- P. Moshashaei, Sh. Alizadeh, MA. Jafarabadi, **L. Khazini**; "Prioritizing the causes of fire and explosion in the external floating roof tanks", Journal of failure analysis and prevention, Volume 17, Issue 5, 2017.
- **L. Khazini**, E. Fatehifar, B. Fouladpanjeh & M. Ebrahimzadeh; "Simulation of Claus Tail Gas Treatment Unit in a Petroleum Refinery", Energy Sources, Part A, Volume 36, Issue 22, 2014.
- **L. Khazini**, E. Fatehifar, B. Fouladpanjeh & R. Alizadeh, "Application of Taguchi Method for Optimization of Amine- Based Tail Gas Treating Unit in Petroleum Refineries" , Energy Sources, Part A, Volume 36, Issue 7, 2014.

- Rouhi,Ali Reza, E. Fatehifar, **L. Khazini**, "Application of New Inflection Point Method for Hydrodynamics Study in Slurry Bubble Column Reactors" Iranian Journal of Chemical Engineering, Vol. 32, No. 2, 2013.
- **L. Khazini**, E. Fatehifar, R. Alizadeh, Optimized Method for Control of an Oil Refinery Air Pollutants", Iranian Chemical Engineering Journal, Vol. 10, No. 54, 2011.