



Pouya Mohammadi

Position

- Associate Researcher - Biofuel Research Team (BRT) –
Agricultural Biotechnology Research Institute of Iran (ABRII).



Address

Phone: +98 918 345 4703

Email: mohamadi_pouya@yahoo.com

St_p.mohammadi@urmia.ac.ir

Date of Birth

23.09.1987 in Eyvan, Iran.

Academic Career

2009-present: Researcher of Biodiesel Research Team (BRT) of ABRII.

2009-2011: M.Sc. in Mechanics of Agricultural Machinery Engineering, Dep. of Mechanics of Agricultural Machinery Engineering, Faculty of Agriculture, Urmia University, Urmia, Iran.

2005-2009: B.Sc. in Agricultural Machinery Engineering, Faculty of Agriculture, Ilam University, Ilam, Iran.

Research Area

- Biofuels in particular biodiesel production and improvement of biodiesel properties
- Design and simulation of mechanism and mechanical devices

Language

Farsi, English



Patents

- **Pouya Mohammadi.** Planetary Crank Mechanism in order to Substitute of Engine Crank ([Iranian Patent Grant Number:71492](#)).
- **Pouya Mohammadi.** Improved Continuously Variable Transmission: Planetary-Striated Pulley (SP CVT) as an Automobile Gearbox ([Iranian Patent Grant Number:71497](#)).
- **Pouya Mohammadi,** Meisam Tabatabaei, Ali M. Nikbakht, Khalil Farhadi, Mehdi Khatami far, Mojtaba Khayam Nekouei. **Fuel Additive “Diesel 5+”** ([Filed](#)).

Submitted Papers:

- **Pouya Mohammadi,** Ali m. Nikbakht, Meisam Tabatabaei, Khalil Farhadi and Mahdi Khatamifar. 2011. **Experimental Investigation of Performance and Emission Characteristics of DI Diesel Engine Fueled with Polymer Waste dissolved in Biodiesel-Blended Diesel Fuel.** ([Bioresource Technology](#))– ([Under Review](#)). ([ISI-Scopus cited](#)). (**5-Year Impact Factor: 4.901**).
- **Pouya Mohammadi,** Ali m. Nikbakht, Meisam Tabatabaei, Khalil Farhadi and Mahdi Khatamifar. 2011. **Investigating Expanded Polystyrene Degradation in Waste Oil Methyl Ester (Biodiesel): A Physicochemical Study.** ([Bioresource Technology](#))– ([Under Review](#)). ([ISI-Scopus cited](#)). (**5-Year Impact Factor: 4.901**).

International Conference Proceedings and Oral Presentations:

- Ali M.Nikbakht, Hassan Ghorbani, Meisam Tabatabaei, Mahdi Hosseini and **Pouya Mohammadi.** **Application of modeling techniques for prediction and optimization of biodiesel production processes** ([ICBEM 2011- September 16- 18, 2011, Singapore](#))
- **P. Mohammadi,** A. M.Nikbakht, M. Tabatabaei, Kh. Farhadi, H. Ghorbani and M. Hosseini. **Evaluation of Diesel Engine Performance and Emission Using Blends of Diesel-Biodiesel-Polymer.** ([7th International Conference on Internal combustion Engines, November 14-16, 2011 – Tehran, Iran](#))
- **P. Mohammadi,** A. M.Nikbakht, M. Tabatabaei, Kh. Farhadi, M. Khatamifar, H. Ghorbani and M. Hosseini. **Waste Plastic-WVO Biodiesel as an Additive to Boost Diesel Fuel Properties.** ([4th International Conference on Engineering for Waste and Biomass Valorisation, September 10-13, 2012 – Porto, Portugal](#))

**National Conference Proceedings and Oral Presentations:**

- **Pouya Mohammadi**, Ali M. Nikbakht, Meisam Tabatabaei, Khalil Farhadi. **Assessing Dissolution of Expanded Polystyrene in Biodiesel through UV Spectrophotometry Technique: A Kinetic Study** ([18th Iranian Seminar of Analytical Chemistry- May 18- 20, 2011, Iran](#))
- **Pouya Mohammadi**, Aref Mardani, Hojjat Jafari, Hassan Ghorbani, Meghdad Nasiri. **Simulation and dynamic analysis of tillage tool movement**, ([5th Regional Congress on Advances in Agricultural Research \(west of Iran\) 18-19, May, 2011, sanandaj, iran](#))
- **P. Mohammadi**, A. M.Nikbakht, M. Tabatabaei, Kh. Farhadi, H. Ghorbani and M. Hosseini. **Quality Improvement of Biodiesel Produced from Waste Oil with Waste Plastic** ([5th national symposium on agricultural wastes, November 14-16, 2011 – Tehran, Iran](#))

Workshop organizer

Accomplished Workshop

Collaborator- [Workshop on Advanced Technologies for Biofuels Production from Wastes](#) – (February 4-8, 2011). **Agricultural Biotechnology Research Institute of Iran (ABRII), Iran.**

Teaching Experience

Practical Course; BSc.- Mechanics of Material - Urmia University

BSc.- Internal Combustion Engines- Azad University

BSc.- Fuel Systems- Azad University