



PERSONAL INFORMATION:

Full Name: Ahmad Abbaszadeh-mayvan

Nationality: Iranian

Academic Level: Assistant Professor

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EDUCATION:

- **Ph.D.: Mechanical Engineering of Agricultural Machinery, Tarbiat Modares University, Tehran, Iran, 2015.**
Dissertation: “Process Intensification in Continuous Biodiesel Production by Research Spinning Hydrodynamic Cavitational Reactor”
- **M.Sc.: Mechanical Engineering of Agricultural Machinery, Tarbiat Modares University, Tehran, Iran, 2010.**
Thesis: “Design, fabrication and evaluation of biodiesel purification system”
- **B.Sc.: Agricultural Engineering, University of Tehran, Tehran, Iran, 2007.**

RESEARCH INTEREST:

- **Biofuels Production, Processing and Application Technology: Biodiesel, Biogas, Bioethanol**
- **Solar Energy Engineering: Solar thermal and PV systems.**

PUBLICATION:

Refereed Journals:

1. Hamidreza Shafaei, Ahmad Taghizadeh-Alisaraei, **Ahmad Abbaszadeh-Mayvan**, Aliasghar Tatari. 2023. Modeling and optimization of alkaline pretreatment conditions for the production of bioethanol from giant reed (*Arundo donax* L.) biomass using response surface methodology (RSM). **Biomass Conversion and Biorefinery**. <https://doi.org/10.1007/s13399-023-04152-6>. **IF= 4.05**.
2. Mehrshad Nazarpour, Ahmad Taghizadeh-Alisaraei, Ali Asghari, **Ahmad Abbaszadeh-Mayvan**, Aliasghar Tatari. (2022). Optimization of biohydrogen production from microalgae by response surface methodology (RSM). *Energy*, 253, 124059. <https://doi.org/10.1016/j.energy.2022.124059>. **IF= 8.857**.
3. Seyed Ali Shahnouri, **Ahmad Abbaszadeh-Mayvan**, Ahmad Taghizadeh-Alisaraei. (2022). Catalytic microwave pyrolysis of mushroom spent compost (MSC) biomass for bio-oil production and its life cycle assessment (LCA) (2022). **Biomass Conversion and Biorefinery**, 1-17. <https://doi.org/10.1007/s13399-022-02988-y>. **IF= 4.05**.
4. Arash Attari, **Ahmad Abbaszadeh-Mayvan**, Ahmad Taghizadeh-Alisaraei. (2022). Process optimization of ultrasonic-assisted biodiesel production from waste cooking oil using waste chicken eggshell-derived CaO as a green heterogeneous catalyst. **Biomass and Bioenergy**, 158, 106357. <https://doi.org/10.1016/j.biombioe.2022.106357>. **IF= 5.774**.
5. Ahmad Taghizadeh-Alisaraei, **Ahmad Abbaszadeh-Mayvan** & Seyyed Hassan Hosseini, (2022). Bio-ethanol production from a mixture of rice hull and orange peel wastes. **Biofuels**, 2022, 13(2), 171-175. doi.org/10.1080/17597269.2019.1655214. **IF= 1.13**
6. Seyyed Hassan Hosseini, Ahmad Taghizadeh-Alisaraei, Barat Ghobadian, **Ahmad Abbaszadeh-Mayvan**, (2020). Artificial Neural Network Modeling of Performance, Emission, and Vibration of a CI Engine Using Alumina Nano-Catalyst Added to Diesel-Biodiesel Blends. **Renewable Energy**, 149, 951-961. doi.org/10.1016/j.renene.2019.10.080. **IF= 8.634**.
7. Mahrokh Farvardin, Bahram Hosseinzadeh Samani, Sajad Rostami, **Ahmad Abbaszadeh-Mayvan**, Gholamhassan Najafi & Ebrahim Fayyazi. (2019). Enhancement of biodiesel production from waste cooking oil: ultrasonic-hydrodynamic combined cavitation system. **Energy Sources, Part A: Recovery, Utilization, and Environmental Effects**, Published Online: 28 Aug 2019. doi.org/10.1080/15567036.2019.1657524. **IF= 0.894**

8. **Ahmad Abbaszadeh-Mayvan**, Barat Ghobadian, Gholamhassan Najafi, Talal Yusaf, (2018). Intensification of continuous biodiesel production from waste cooking oils using shockwave power reactor: Process evaluation and optimization through Response Surface Methodology (RSM). **Energies**, 2018, 11(10). doi.org/10.3390/en11102845. **IF= 2.99**
9. Seyyed Hassan Hosseini, Ahmad Taghizadeh-Alisarai, Barat Ghobadian, **Ahmad Abbaszadeh-Mayvan**, (2017). Performance and emission characteristics of a CI engine fuelled with carbon nanotubes and diesel-biodiesel blends. **Renewable energy**, 2017, 111, 201-213. doi.org/10.1016/j.renene.2017.04.013. **IF= 8.634**.
10. Seyyed Hassan Hosseini, Ahmad Taghizadeh-Alisarai, Barat Ghobadian, **Ahmad Abbaszadeh-Mayvan**, (2017). ANN Application for Prediction of Diesel Engine Heat with Nano-Additives on Diesel-Biodiesel Blends. **Agricultural Engineering International: CIGR**, 19(2), 76-83.
11. Khadijeh Heydari-Maleney, Ahmad Taghizadeh-Alisarai, Barat Ghobadian, **Ahmad Abbaszadeh-Mayvan**, (2017). Analyzing and evaluation of carbon nanotubes additives to diesohol-B2 fuels on performance and emission of diesel engines. **Fuel**, 196 (2017) 110–123. doi.org/10.1016/j.fuel.2017.01.09. **IF= 8.035**.
12. Seyyed Hassan Hosseini, Ahmad Taghizadeh-Alisarai, Barat Ghobadian, **Ahmad Abbaszadeh-Mayvan**, (2017). Effect of added alumina as nano-catalyst to diesel-biodiesel blends on performance and emission characteristics of CI engine. **Energy**, 2017 (24), 543-552. doi.org/10.1016/j.energy.2017.02.109. **IF= 8.857**.
13. **Ahmad Abbaszadeh-Mayvan**, Barat Ghobadian, Gholamhassan Najafi. (2012). Current Biodiesel Production Technologies: A Comparative Review. **Energy conversion and management**, 63(2012)138-148. doi.org/10.1016/j.enconman.2012.02.027. **IF=11.533**.
14. **Ahmad Abbaszadeh**, Barat Ghobadian, Gholamhassan Najafi, Talal Yusaf, (2013). An experimental Investigation of the Effective Parameters on Wet Washing Biodiesel Purification, **International Journal of Automotive and Mechanical Engineering**, Volume 9, pp. 1525-1537, January-June. 2014. doi.org/10.15282/ijame.9.2013.4.0126.
15. **Ahmad Abbaszadeh**, Barat Ghobadian, Gholamhassan Najafi, (2014). Electrostatic Coagulation for Separation of Crude Glycerin from Biodiesel. **Advances in Environmental Biology**, 8(1) January 2014, Pages: 321-324.
16. **Ahmad Abbaszadeh**, Barat Ghobadian, Gholamhassan Najafi, (2014). Analytical and FEM Design of Mixing System in STR Biodiesel Production, **Advances in Environmental Biology**, 8(1) January 2014, Pages: 325-334
17. Nematizade Pegah, Barat Ghobadian, Gholamhassan Najafi, **Abbaszadeh Ahmad** (2013). Investigation some of the properties of fossil fuels and liquid biofuels

blends for utilize at SI engines. **International Journal of Automotive Engineering and Technologies**. Vol. 2, Issue 4, pp. 92 – 103, 2013.

18. **Ahmad Abbaszadeh**, Ali Motevali, Barat Ghobadian Mohammad. Hadi Khoshtaghaza, Saeid Minaei (2012). Effect of Air Velocity and Temperature on Energy and Effective Moisture Diffusivity for Russian olive (*Elaeagnus gastifolia* L.) in Thin-Layer Drying. **Iranian chemical and chemical engineering**. 31(1), 65-69. **IF=0.461**
19. **Abbaszadeh, Ahmad**, Motevali, Ali, Khoshtaghaza, Mohammad Hadi, and Kazemi, Mohammad (2011). Evaluation of thin-layer drying models and neural network for describing drying kinetics of *Lasagnas angustifolia* L. **International Food Research Journal** 18(4): 1321-1328. **IF=0.622**
20. Ali Motavali., **Ahmad Abbaszadeh**, Saeid Minaei., Gholam Hassan Najafi (2012). Drying of Jujube (*Zizyphus jujube* Mill) fruit: Comparison of prediction from mathematical models and Artificial Neural Network. **Australian Journal of Crop Science**. 6(2), 210-218.
21. Ali Motevalli, **Ahmad Abbaszadeh**, Saeed Minaei, Mohammad Hadi Khoshtagaza, Barat Ghobadian, Effective Moisture Diffusivity, Energy of Activation and Energy Consumption in Thin-layer Drying of Jujube. **Journal of Agriculture Science and Technology**. 14, 523-532. **IF=0.828**

National and international Conferences:

1. Negin Hashemi, **Ahmad Abbaszadeh-Mayvan**, Ahmad Taghizadeh-Alisaraie, Mohammad hashem Rahmati, Mostafa Gharzi (2022). The effect of surfactants on the stability of nanofluids used in photovoltaic-thermal systems: A comprehensive study. Sixth International Conference on Applied Research in Science and Engineering. 2022-03-30.
2. **Ahmad Abbaszaadeh-Mayvan**, Barat Ghobadian, Gholamhassan Najafi, Mohhamad R. Omidkhah. Design, Fabrication and Evaluation of a Nobel Biodiesel Processor System. SET2011, 10th International Conference on Sustainable Energy Technologies, İstanbul, TÜRKİYE, 4-7 Sep. 2011.
3. **Ahmad Abbaszaadeh-Mayvan**, Barat Ghobadian, Gholamhassan Najafi. Current Biodiesel Production Technologies: A Comparative Review. SET2011, 10th International Conference on Sustainable Energy Technologies, İstanbul, TÜRKİYE, 4-7 Sep. 2011.
4. **Ahmad Abbaszaadeh Mayvan**, Barat Ghobadian, Gholamhassan Najafi. High Voltage/Low Amperage Current for Separation of Crude Glycerin from Biodiesel. SET2011, 10th International Conference on Sustainable Energy Technologies, İstanbul, TÜRKİYE, 4-7 Sep. 2011.

5. **Ahmad Abbaszaadeh Mayvan**, Barat Ghobadian, Gholamhassan Najafi, Mohhammad R. Omidkhah. Analytical and FEM Design of Mixing System in STR Biodiesel Production. SET2011, 10th International Conference on Sustainable Energy Technologies, İstanbul, TÜRKİYE, 4-7 Sep. 2011.
6. **Ahmad Abbaszaadeh**, Barat Ghobadian, Gholamhassan Najafi, Talal Yusaf. An experimental Investigation of the Effective Parameters on Wet Washing Biodiesel Purification. international conference on mechanical engineering research, 1-3 July 2013 Pahang, Malaysia.
7. Ali Motevali, **Ahmad Abbaszadeh**, Saeid Minae, and Gholamhassan Najafi, Drying of Jujube Fruit: Comparison of Prediction from Mathematical Models and Artificial Neural Network, CIOSTA CIGR V Conference 2011.
8. Mehdi Zare, Barat Ghobadian, Gholamhasan Najafi, **Ahmad Abbaszadeh**, Ebrahim Fayyazi Biodiesel. fuel production from waste cooking oil by microwave irradiation. European Conference and Workshop on Renewable Energy Systems, Türkiye, Sep. 2012.
9. Hooman ezzati, Barat ghobadian , **Ahmad abbaszadeh** ,Abolfath akbarzadeh, Susan samadi. fish oil as potential feedstok for biodiesel production. European Conference and Workshop on Renewable Energy Systems, Türkiye, Sep. 2012.
10. Azadeh Emamgholivand, Barat Ghobadian, **Ahmad Abbaszadeh**. Simulation and Study of Methanol Recovery Process in Biodiesel Production. European Conference and Workshop on Renewable Energy Systems, Türkiye, Sep. 2012.
11. Arash izadi, Barat ghobadian, Abolfath akbarzadeh, **Ahmad abbaszadeh**. physicochemical properties of biodiesel produced through the use of different oils and alcohols. European Conference and Workshop on Renewable Energy Systems, Türkiye, Sep. 2012.
12. Hooman ezzati, Barat ghobadian, **Ahmad abbaszadeh** ,Abolfath akbarzadeh, Susan samadi. biodiesel production from castor oil and its characterization. European Conference and Workshop on Renewable Energy Systems, Türkiye, Sep. 2012.

Patents:

1. Dual purpose device for production and purification of biodiesel. Registered at Iran Intellectual Property Office, Feb 27, 2010 (Patent Nom. 63672).
2. Two-ton continuous biodiesel fuel production reactor. Registered at Iran Intellectual Property Office, Feb 27, 2010 (Patent Nom. 63670).

ACADEMIC TEACHING EXPERIENCE:

M.Sc. Students: Advanced Biofuels, Photovoltaic Systems in Agricultural Systems, Advanced Heat Transfer, Kinetic and Rector Design

B.Sc. Students: Solar Thermal Systems in Agricultural Systems, Heat Transfer, Thermodynamic, Internal Combustion Engines, Fuel Cell Engineering, Heat Exchanger Design, Wind Energy.

SERVICE AND PROFESSIONAL MEMBERSHIP:

- Head, Department of Biosystems Engineering, Gorgan University of Agricultural Sciences & Natural Resources, Iran, Since, 2020.
- Iranian Society of Agricultural Machinery Engineering and Mechanization, Since, 2010.
- Member of the Green Management Strategic Council of Gorgan University of Agricultural Sciences and Natural Resources, Iran, Since, 2020.
- Secretary of the Consumption Pattern Reform Committee of Gorgan University of Agricultural Sciences and Natural Resources, Iran, Since, 2020.
- Head of the Renewable Energy Laboratory, Biosystems Engineering Department, Gorgan University of Agricultural Sciences and Natural Resources, Iran, Since, 2020.
- Member of the founding board of the Renewable Energy Laboratory of Tarbiat Modares University, 2008.
- Consultant professor of student scientific associations, Gorgan University of Agricultural Sciences and Natural Resources, 2016-2019.

AWARDS:

- Outstanding consultant professor of student scientific associations, Gorgan University of Agricultural Sciences and Natural Resources, 2018.
- The first rank of Mechanical Engineering in Agricultural Machinery Ph.D students in Tarbiat Modares University in 2015.
- 1st place in the Ph.D comprehensive examination in mechanical engineering of agricultural machinery, Tarbiat Modares University, Tehran, Iran, 2012.

LANGUAGES: **Persian:** Mother tongue, **English:** Advanced