



PERSONAL INFORMATION:

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EDUCATION:

- 2011: Ph.D. in Mechanics of agricultural machinery, Tarbiat Modares University, Tehran, Iran
- 2005: M.Sc. in Mechanics of agricultural machinery, Tarbiat Modares University, Tehran, Iran
- 2003: B.Sc. in agricultural machinery engineering, Tabriz University, Tabriz, Iran

RESEARCH INTEREST:

- Engine, fuel, combustion and emissions
- Renewable energy, biofuel, sun and wind
- Vibrations, sound, signal and image processing

PUBLICATION:

English Articles

- 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>
- Ahmad Taghizadeh-Alisaraei, Aliasghar Tatari, Majid Khanali and Mohsen Keshavarzi. 2022. Potential of Biofuels Production from Wheat Straw Biomass, Current Achievements and Perspectives: A Review. *Biofuels*. 13, 1-15.
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- Nazarpour M, Taghizadeh-Alisaraei A, Asghari A, Abbaszadeh-Mayvan A, Tatari A. 2022. Optimization of biohydrogen production from microalgae by response surface methodology (RSM). *Energy*. 253, 1-7.
- Seyed Ali Shahnouri, Ahmad Taghizadeh-Alisaraei, Ahmad Abbaszadeh-Mayvan, Aliasghar Tatari. 2022. Catalytic microwave pyrolysis of mushroom spent compost (MSC) biomass for bio-oil production and its life cycle assessment (LCA). *Biomass Conversion and Biorefinery*.
- 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*. 158.1-16.
- Nazarpour M., Taghizadeh-Alisaraei, A., Khalaghi, M. 2021. Fixed Bed Pyrolysis of Euphorbia Tirucalli Biomass for Bio-oil Production, *Journal of Agricultural Mechanization*, 5(2), 113-120.
- Motevali, A., H. Jafari, E. Z. Molkabadi, S. Zhu, R. T. Kolor, and A. Taghizadeh-Alisaraei. 2020. "Comparison of Environmental Pollution and Social Cost Analyses in Different Drying Technologies." *International Journal of Global Warming* 22(1). doi: 10.1504/IJGW.2020.110210.
- Salehi, R., A. Taghizadeh-Alisaraei, F. Shahidi, and A. Jahanbakhshi. 2020. "Potentiometric of Bioethanol Production from Cantaloupe Waste (Magassi Neishabouri Cultivar)." *Journal of the Saudi Society of Agricultural Sciences* 19(1). doi: 10.1016/j.jssas.2018.05.006.
- Hosseini, S. H., A. Taghizadeh-Alisaraei, B. Ghobadian, and A. 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. doi: 10.1016/j.renene.2019.10.080.
- Taghizadeh-Alisaraei, Ahmad, and Alireza Mahdavian. 2019. "Fault Detection of Injectors in Diesel Engines Using Vibration Time-Frequency Analysis." *Applied Acoustics* 143:48–58. doi: 10.1016/j.apacoust.2018.09.002.
- Taghizadeh-Alisaraei, A., A. Abbaszadeh-Mayvan, and S. H. Hosseini. 2019. "Bio-Ethanol Production from a Mixture of Rice Hull and Orange Peel Wastes." *Biofuels*. doi: 10.1080/17597269.2019.1655214.
- Taghizadeh-Alisaraei, Ahmad, Ali Motevali, and Barat Ghobadian. 2019. "Ethanol Production from Date Wastes: Adapted Technologies, Challenges, and Global Potential." *Renewable Energy* 143:1094–1110. doi: 10.1016/j.renene.2019.05.048.
- Salehi, Rouhollah, Ahmad Taghizadeh-Alisaraei, Ahmad Jahanbakhshi, and Fakhri Shahidi. 2018. "Evaluation and Measurement of Bioethanol Extraction from Melon Waste (Qassari Cultivar)." *Agricultural Engineering International: CIGR Journal* 20(3):127–31.
- Taghizadeh-Alisaraei, Ahmad, Seyyed Hasan Hosseini, Barat Ghobadian, and Ali Motevali. 2017. "Biofuel Production from Citrus Wastes: A Feasibility Study in Iran." *Renewable and Sustainable Energy Reviews* 69(January 2017):1100–1112.

- Ali, Motevali, Amiri Chayjan Reza, Salari Kamran, and Taghizadeh Alisarai Ahmad. 2017. "Studying the Effect of Different Drying Bed on Drying Characteristic of Mint Leaves." *Chemical Product and Process Modeling* 11(3):1-9.
- Heydari-Maleny, Khadijeh, Ahmad Taghizadeh-Alisarai, Barat Ghobadian, and Ahmad Abbaszadeh-Mayvan. 2017. "Analyzing and Evaluation of Carbon Nanotubes Additives to Diesohol-B2 Fuels on Performance and Emission of Diesel Engines." *Fuel* 196:110-23. doi: <https://doi.org/10.1016/j.fuel.2017.01.091>.
- Hosseini, S. H., A. Taghizadeh-Alisarai, B. Ghobadian, and A. Abbaszadeh-Mayvan. 2017. "Performance and Emission Characteristics of a CI Engine Fuelled with Carbon Nanotubes and Diesel-Biodiesel Blends." *Renewable Energy* 111. doi: 10.1016/j.renene.2017.04.013.
- Hosseini, Seyyed Hassan, Ahmad Taghizadeh-Alisarai, Barat Ghobadian, and Ahmad Abbaszadeh-Mayvan. 2017. "Effect of Added Alumina as Nano-Catalyst to Diesel-Biodiesel Blends on Performance and Emission Characteristics of CI Engine." *Energy* 124:543-52. doi: <http://dx.doi.org/10.1016/j.energy.2017.02.109>.
- Taghizadeh-Alisarai, A. 2017. "Analysis of Annoying Shocks Transferred from Tractor Seat Using Vibration Signals and Statistical Methods." *Computers and Electronics in Agriculture* 141. doi: 10.1016/j.compag.2017.07.020.
- Taghizadeh-Alisarai, Ahmad, Hossein Alizadeh Assar, Barat Ghobadian, and Ali Motevali. 2017. "Potential of Biofuel Production from Pistachio Waste in Iran." *Renewable and Sustainable Energy Reviews* 72:510-22. doi: 10.1016/j.rser.2017.01.111.
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- Taghizadeh-Alisarai, Ahmad, Barat Ghobadian, Teymour Tavakoli-Hashjin, Seyyed Saeid Mohtasebi, Abbas Rezaei-asl, and Mohsen Azadbakht. 2016. "Characterization of Engine's Combustion-Vibration Using Diesel and Biodiesel Fuel Blends by Time-Frequency Methods: A Case Study." *Renewable Energy* 95:422-32. doi: 10.1016/j.renene.2016.04.054.
- Taghizadeh-Alisarai, Ahmad, and Abbas Rezaei-Asl. 2016. "The Effect of Added Ethanol to Diesel Fuel on Performance, Vibration, Combustion and Knocking of a CI Engine." *Fuel* 185:718-33. doi: 10.1016/j.fuel.2016.08.041.
- Motevali, Ali, Reza Amiri Chayjan, Kamran Salari, and Ahmad Taghizadeh. 2016. "Studying the Effect of Different Drying Bed on Drying Characteristic of Mint Leaves." *Chemical Product and Process Modeling* 11(3):231-39. doi: 10.1515/cppm-2015-0045.
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- Taghizadeh-Alisaraei, Ahmad, Barat Ghobadian, Teymour Tavakoli-Hashjin, and S. S. Seyed Saeid Mohtasebi. 2012. "Vibration Analysis of a Diesel Engine Using Biodiesel and Petrodiesel Fuel Blends." *Fuel* 102(2012):414–22. doi: 10.1016/j.fuel.2012.06.109.
- Taghizadeh, A., T. Tavakoli Hashjin, B. Ghobadian, and A. M. Nikbakht. 2007. "Evaluation of Vibration in Power Tiller on the Asphalt Surface." in *Proceedings of the International Agricultural Engineering Conference, Bangkok, Thailand, 3-6 December 2007. Cutting edge technologies and innovations on sustainable resources for world food sufficiency. Asian Association for Agricultural Engineering.*

Persian Articles

- Taghizadeh Ali Saraei Ahmad, Tavakoli Hashjin Teymour *, Ghobadian Barat. 2016. Investigation of universal 650 tractor seat vibration. *Iranian Agricultural Sciences*, Vol. 38, No. 4, 571-580.
- Taghizadeh Ali Saraei Ahmad, Tavakoli Hashjin Teymour *, Ghobadian Barat. 2016. Analysis of user's daily exposure to two-wheeled tractor vibration. *Technical Research and Agricultural Engineering*. Vol. 8, No. 4. 47-64.
- Taghizadeh Ali Saraei Ahmad, Tavakoli Hashjin Teymour *, Ghobadian Barat 2010. Analysis and investigation of two-wheeled tractor vibrations in stationary position *Journal of Biosystem Engineering. University of Tehran*. Vol. 41, No. 1 27-35.
- Ahmad Taghizadeh Alisaraei, Barat Ghobadian *, Teymour Tavakoli Hashjin, Seyed Saeed Mohtasbi, Mohammad Kazem. 2018. Simulating the vibrations of a type of diesel engine with biodiesel and diesel fuel mixtures using artificial neural network. *Journal of Engine research*. Vol. 23, No. 23, 22-31.
- Abbas Rezaei Asl *, Shahram Nowroziyeh, Ahmad Taghizadeh Alisaraei. 2012. Review and Efficiency comparison harvest car manual cotton at two variety of Sahel and Varamin. *Journal of Agriculture Machinery Sciences, University of Orumieh*. Vol. 1, No. 1, 27-35.

- Hamid Khafajeh, Ahmad Banakar *, Saeed Minaei, Ahmad Taghizadeh, Ali Trustee Masoud Rezaei Adriani. 2013. Investigating energy consumption and drying kinetics of thyme medicinal plant in a microwave dryer. Journal of Food Sciences and Industries of Iran. Tarbiat Modares University. Vol. 11, No. 45, 45-54.
- Ahmad Tagyzadeh Alisarai *, Barat Ghobadian, Hosseinali Shamsabadi. 2013. Mechanical-vibration simulation of the user while using a two-wheeled tractor. Journal of Agriculture Machinery Sciences, University of Orumieh. Vol. 2, No. 1, 103-116.
- Seyyed Hasan Hosseini, Ahmad Taghizadeh-Alisarai *, Barat Ghobadian Ahmad Abbaszadeh Mayvan. 2017. modeling the effect of carbon nanotubes added to diesel - biodiesel fuel blend on performance and noise of a diesel engine using neural network. fuel and combustion. No. 11.
- Zuhair al- Darwish Ahmad Tagayzadeh Alisarai * Barat Ghobadian Ahmad Abbaszadeh Mayvan 2017. Investigating the performance and vibration of a diesel engine using silver nanoparticles added to the mixture of diesel fuel and biodiesel. Journal of Engine research. No. 46
- Mehrshad Nazarpour, Aliasghar tatari, Ahmad Taghizadeh Alisarai *. 2019. A brief review on the separation of lignocellulose materials as Natural polymers to produce products with high added value. Basparash Scientific. 3, 40-51.
- Laila Shakeri, Ali Asghari, Ahmad Taghizadeh-Alisarai. 2019. Modeling the effect of functionalized carbon nanotubes containing oxygen added to diesel biodiesel and bioethanol fuel mixture on performance and emissions of diesel engine using artificial neural network. fuel and combustion. No. 13

ACADEMIC TEACHING EXPERIENCE:

- Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran, 2009-2023
- Azad University, Tehran, Iran, 2007-2010

LANGUAGES:

- Persian, Native
- English