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| <b>Citation indices</b> | All  | Since 2019 |
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| Citations               | 1141 | 951        |
| <u>h-index</u>          | 19   | 16         |
| i10-index               | 22   | 22         |

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### Academic Appointments

| Academic Center      | Duration | Appointments        |
|----------------------|----------|---------------------|
| Razi University      | 2013     | Associate Professor |
| University of Tabriz | 2024     | Associate Professor |

### Education

**Ph.D:** Mechanical Engineering of Agricultural Machinery (2013). Tarbiat Modares University, Tehran; Iran

**M.Sc:** Mechanical Engineering of Agricultural Machinery (2006). Tarbiat Modares University, Tehran; Iran

**B.Sc:** Agricultural Machinery Engineering (2002). University of Tabriz, Tabriz; Iran

### Areas of Research Interests

- Design, Fabrication and Evaluation of Agricultural Machinery and Components
- Renewable and Sustainable Energy for Agricultural Applications
- Process Optimization using Response Surface Method (RSM) and ANN

### Current Teaching

| Course Title          | Levels | Syllabus | Credits | Notes |
|-----------------------|--------|----------|---------|-------|
| Statics               | BSc    |          | 3       |       |
| Dynamics              | BSc    |          | 4       |       |
| Thermodynamics        | BSc    |          | 3       |       |
| Mechanics of Material | BSC    |          | 3       |       |

|  |     |   |
|--|-----|---|
| Design of Machine Elements               | BSc | 3 |
| Industrial Drawing                       | BSc | 2 |
| Engineering Mathematics                  | MSc | 2 |
| Engineering principles of Food Equipment | MSc | 2 |

## Selected Publication

### A. Books

### B. Journals Papers

1. [طراحی و ساخت سمپاش الکترواستاتیک گلخانه ای و ارزیابی میزان بارداری قطرات](#) (دانش کشاورزی، ۱، ۱۸، سه ماهه اول ۸۷)
2. [بهینه سازی عملکرد رآکتور حفره زای هیدرودینامیکی جهت تولید بیودیزل به کمک سطح پاسخ \(مطالعه موردی روغن آفتابگردان\)](#)، (ماشین های کشاورزی، جلد ۷، شماره ۱، ۱۳۹۶، صفحه ۲۶۹-۲۶۰)
3. [بررسی ارتعاشات موتور تراکتور MF285 بر اثر ترکیبات مختلف سوخت بیودیزل به کمک روش های آماری و ANFIS](#)، (ماشین های کشاورزی، جلد ۷، شماره ۱، ۱۳۹۶، صفحه ۱۷۶-۱۶۵)
4. [بررسی ارتعاشات موتور تراکتور MF 285 بر اثر ترکیبات مختلف سوخت بیودیزل به کمک سطح پاسخ](#)، (مهندسی بیوسیستم ایران، دوره ۴۷، شماره ۲، تابستان ۱۳۹۵، صفحه ۳۲۹-۳۳۵)
5. [Effect of electrostatic induction parameters on droplets charging for agricultural application](#), JAST, Volume 11, Number 3, July and August 2009, Page 249-257.
6. [Optimization of Ultrasonic Reactor Geometry for Biodiesel Production using Response Surface Methodology](#), JAST, Volume 15, Issue 4, July and August 2013, Page 697-70
7. [Acceleration of biodiesel-glycerol decantation through NaCl-assisted gravitational settling: a strategy to economize biodiesel production](#), Bioresource Technology, Volume 134, April 2013, Pages 401-406.

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8. [Accelerated decantation of biodiesel–glycerol mixtures: Optimization of a critical stage in biodiesel biorefinery](#), Separation and Purification Technology, [Volume 132](#), 20 August 2014, Pages 272–280.
9. [Optimization of Ultrasonic Assisted Continuous Production of Biodiesel Using Response Surface Methodology](#), Ultrasonics Sonochemistry, [Volume 27](#), November 2015, Pages 54–61.
10. [Modeling the effects of ultrasound power and reactor dimension on the biodiesel production yield: Comparison of prediction abilities between response surface methodology \(RSM\) and adaptive neuro-fuzzy inference system \(ANFIS\)](#), Energy, [Volume 115](#), Part 1, 15 November 2016, Pages 626-636
11. [Modeling the energy ratio and productivity of biodiesel with different reactor dimensions and ultrasonic power using ANFIS](#), Renewable and Sustainable Energy Reviews, [Volume 70](#), April 2017, Pages 56–64.
12. [ANFIS models for prediction of biodiesel fuels cetane number using desirability function](#), Fuel, [216](#), 665-672.
13. [Prediction of biodiesel fuel properties from its fatty acids composition using ANFIS approach](#), Fuel, [229](#), 227-234.
14. [Potential of acid-activated bentonite and SO<sub>3</sub>H-functionalized MWCNTs for biodiesel production from residual olive oil under biorefinery scheme](#), Frontiers in Energy Research [6](#), 137.
15. [Optimization of fusel oil–Gasoline blend ratio to enhance the performance and reduce emissions](#), Applied Thermal Engineering [148](#), 1334-1345.
16. [An analysis of noise pollution emitted by moving MF285 Tractor using different mixtures of biodiesel, bioethanol and diesel through artificial intelligence](#), Journal of Low Frequency Noise, Vibration and Active Control [38](#) (2), 270-281.
17. [Analysis of noise pollution emitted by stationary MF285 tractor using different mixtures of biodiesel, bioethanol, and diesel through artificial intelligence](#), Environmental Science and Pollution Research [26](#) (21), 21682-21692.
18. [Energy indicators for microwave-assisted biodiesel production from waste fish oil](#), Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 1-12.
19. [Effect of nano-additives blended diesel-biodiesel on performance and emissions of CI engine in the presence of magnetic field](#), Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 1-17.
20. [Flow-mode synthesis of biodiesel under simultaneous microwave–magnetic irradiation](#), Chinese Journal of Chemical Engineering [27](#) (10), 2551-2559.
21. [Design and evaluation of a novel ultrasonic desalination system by response surface methodology](#), DESALINATION AND WATER TREATMENT [164](#), 263-275.

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22. [A review on microwave-assisted biodiesel production, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects 41 \(19\), 2377-2395.](#)
23. [Different blends of biodiesel, bioethanol, diesel and noise pollution emitted by stationary and moving MF285 tractor, Journal of Environmental Health Science and Engineering 17 \(2\), 743-752.](#)
24. [Detection and classification of diesel-biodiesel blends by LDA, QDA and SVM approaches using an electronic nose, Fuel 258, 116114.](#)
25. [The effect of nano-biochar on the performance and emissions of a diesel engine fueled with fusel oil-diesel fuel, Fuel 268, 117356.](#)
26. [Multi-objective optimization of performance and emissions characteristics of a variable compression ratio diesel engine running with biogas-diesel fuel using response surface techniques, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 1-18.](#)
27. [A review on higher alcohol of fusel oil as a renewable fuel for internal combustion engines: Applications, challenges, and global potential, Fuel 279, 118516.](#)
28. [Catalytic performance of MgO/Fe<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub> core-shell magnetic nanocatalyst for biodiesel production of \*Camelina sativa\* seed oil: Optimization by RSM-CCD method, Industrial Crops and Products 159, 113065.](#)
29. [Fault Diagnosis of Electromotor Acoustically Using Machine Learning Approach, Modares Mechanical Engineering 21 \(8\), 563-573.](#)
30. [Microwave-assisted intensification of transesterification reaction for biodiesel production from camelina oil: Optimization by Box-Behnken Design, Bioresource Technology Reports, 100928.](#)
31. [Detecting the different blends of diesel and biodiesel fuels using electronic nose machine coupled ANN and RSM methods, Sustainable Energy Technologies and Assessments 51, 101914.](#)
32. [Modeling Honey Adulteration by Processing Microscopic Images Using Artificial Intelligence Methods, J. Agr. Sci. Tech. \(2022\) Vol. 24\(2\): 365-378.](#)
33. [Microwave-assisted synthesis of trimethylolpropane triester \(bio-lubricant\) from camelina oil, Scientific Reports \(2022\), Vol. 12\(1\): 11941.](#)
34. [Detecting the adulteration in apple vinegar using olfactory machine coupled PCA and ANN methods, Agricultural Engineering International: CIGR Journal \(2022\), Vol. 24 No. 4, 164-173.](#)

### **C. Conference Papers**

1. Reduction of Pesticide Consumption Using Charged Droplets.

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2. Improvement of Pesticide Application Efficiency and Deposition Using Charged Droplets
3. Path Analysis of Biomass and Seed Yield of Garden Cress for High Biodiesel Production (EUBCE 2017 - 25th European Biomass Conference and Exhibition, 15 June 2017)
4. Optimization of Ultrasonic Reactor Geometry for Biodiesel Production Using Response Surface Methodology (European Conference and Workshop on Renewable Energy Systems).
5. Optimization of Biodiesel Production Parameters by Ultrasonic from Iranian Variety of Castor Oil (European Conference and Workshop on Renewable Energy Systems).
6. Modeling and Evaluation of Some Parameters Effective on Reactor Design for biodiesel production for Optimized Utilization of Ultrasonic Waves (European Conference and Workshop on Renewable Energy Systems).
7. ...