

Ahmad Jahanbakhshi

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,495
citations

257357

24
h-index

330025

37
g-index

47
all docs

47
docs citations

47
times ranked

900
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Evaluation of image processing technique as an expert system in mulberry fruit grading based on ripeness level using artificial neural networks (ANNs) and support vector machine (SVM). <i>Postharvest Biology and Technology</i> , 2020, 166, 111201. | 2.9 | 104 |
| 2 | Accurate classification of cherry fruit using deep CNN based on hybrid pooling approach. <i>Postharvest Biology and Technology</i> , 2020, 166, 111204. | 2.9 | 94 |
| 3 | Classification of sour lemons based on apparent defects using stochastic pooling mechanism in deep convolutional neural networks. <i>Scientia Horticulturae</i> , 2020, 263, 109133. | 1.7 | 83 |
| 4 | Performance improvement and exhaust emissions reduction in diesel engine through the use of graphene quantum dot (GQD) nanoparticles and ethanol-biodiesel blends. <i>Fuel</i> , 2020, 267, 117116. | 3.4 | 79 |
| 5 | The effect of ultrasound pre-treatment on quality, drying, and thermodynamic attributes of almond kernel under convective dryer using ANNs and ANFIS network. <i>Journal of Food Process Engineering</i> , 2018, 41, e12868. | 1.5 | 73 |
| 6 | Prediction kinetic, energy and exergy of quince under hot air dryer using ANNs and ANFIS. <i>Food Science and Nutrition</i> , 2020, 8, 594-611. | 1.5 | 68 |
| 7 | The effect of microwave and convective dryer with ultrasound pre-treatment on drying and quality properties of walnut kernel. <i>Journal of Food Processing and Preservation</i> , 2019, 43, e14178. | 0.9 | 58 |
| 8 | Performance and emission characteristics of a diesel engine fueled with functionalized multi-wall carbon nanotubes (MWCNTs-OH) and diesel-biodiesel-bioethanol blends. <i>Energy Reports</i> , 2020, 6, 1438-1447. | 2.5 | 58 |
| 9 | Assessment of kinetics, effective moisture diffusivity, specific energy consumption, shrinkage, and color in the pistachio kernel drying process in microwave drying with ultrasonic pretreatment. <i>Journal of Food Processing and Preservation</i> , 2020, 44, e14449. | 0.9 | 55 |
| 10 | Influence of ultrasound pre-treatment and temperature on the quality and thermodynamic properties in the drying process of nectarine slices in a hot air dryer. <i>Journal of Food Processing and Preservation</i> , 2020, 44, e14818. | 0.9 | 52 |
| 11 | Use of artificial intelligence for the estimation of effective moisture diffusivity, specific energy consumption, color and shrinkage in quince drying. <i>Journal of Food Process Engineering</i> , 2020, 43, e13358. | 1.5 | 49 |
| 12 | Evaluation of image processing technique and discriminant analysis methods in postharvest processing of carrot fruit. <i>Food Science and Nutrition</i> , 2020, 8, 3346-3352. | 1.5 | 45 |
| 13 | A novel fuel based on biocompatible nanoparticles and ethanol-biodiesel blends to improve diesel engines performance and reduce exhaust emissions. <i>Fuel</i> , 2020, 276, 118079. | 3.4 | 43 |
| 14 | Investigation of mass transfer, thermodynamics, and greenhouse gases properties in pennyroyal drying. <i>Journal of Food Process Engineering</i> , 2020, 43, e13446. | 1.5 | 38 |
| 15 | Processing watermelon waste using <i>Saccharomyces cerevisiae</i> yeast and the fermentation method for bioethanol production. <i>Journal of Food Process Engineering</i> , 2019, 42, e13283. | 1.5 | 37 |
| 16 | Determination of physical and mechanical properties of carrot in order to reduce waste during harvesting and post-harvesting. <i>Food Science and Nutrition</i> , 2018, 6, 1898-1903. | 1.5 | 35 |
| 17 | Effect of alumina nanoparticles as additive with diesel-biodiesel blends on performance and emission characteristic of a six-cylinder diesel engine using response surface methodology (RSM). <i>Energy Conversion and Management: X</i> , 2021, 11, 100091. | 0.9 | 35 |
| 18 | Detection of fraud in ginger powder using an automatic sorting system based on image processing technique and deep learning. <i>Computers in Biology and Medicine</i> , 2021, 136, 104764. | 3.9 | 34 |

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|----|--|-----|-----------|
| 19 | Waste management using an automatic sorting system for carrot fruit based on image processing technique and improved deep neural networks. <i>Energy Reports</i> , 2021, 7, 5248-5256. | 2.5 | 34 |
| 20 | Novel environmentally friendly fuel: The effect of adding graphene quantum dot (GQD) nanoparticles with ethanol-biodiesel blends on the performance and emission characteristics of a diesel engine. <i>NanoImpact</i> , 2021, 21, 100294. | 2.4 | 34 |
| 21 | Learning-to-augment strategy using noisy and denoised data: Improving generalizability of deep CNN for the detection of COVID-19 in X-ray images. <i>Computers in Biology and Medicine</i> , 2021, 136, 104704. | 3.9 | 33 |
| 22 | Influence of vermicompost and sheep manure on mechanical properties of tomato fruit. <i>Food Science and Nutrition</i> , 2019, 7, 1172-1178. | 1.5 | 31 |
| 23 | Assessment of physical, mechanical, and hydrodynamic properties in reducing postharvest losses of cantaloupe (<i>Cucumis melo</i> var. <i>Cantaloupensis</i>). <i>Journal of Food Process Engineering</i> , 2019, 42, e13091. | 1.5 | 27 |
| 24 | Determination of Mechanical Properties of Banana Fruit under Quasi-Static Loading in Pressure, Bending, and Shearing Tests. <i>International Journal of Fruit Science</i> , 2020, 20, 314-322. | 1.2 | 27 |
| 25 | Evaluation of performance and emission characteristics of a CI engine using functional multi-walled carbon nanotubes (MWCNTs-COOH) additives in biodiesel-diesel blends. <i>Fuel</i> , 2021, 287, 119525. | 3.4 | 27 |
| 26 | Evaluation of engineering properties for waste control of tomato during harvesting and postharvesting. <i>Food Science and Nutrition</i> , 2019, 7, 1473-1481. | 1.5 | 25 |
| 27 | Improving Energy Efficiency of Barley Production Using Joint Data Envelopment Analysis (DEA) and Life Cycle Assessment (LCA): Evaluation of Greenhouse Gas Emissions and Optimization Approach. <i>Sustainability</i> , 2021, 13, 6082. | 1.6 | 25 |
| 28 | Gene transfer to German chamomile (<i>L. chamomilla</i> M) using cationic carbon nanotubes. <i>Scientia Horticulturae</i> , 2020, 263, 109106. | 1.7 | 24 |
| 29 | A novel method based on machine vision system and deep learning to detect fraud in turmeric powder. <i>Computers in Biology and Medicine</i> , 2021, 136, 104728. | 3.9 | 21 |
| 30 | Performance of bioethanol and diesel fuel by thermodynamic simulation of the miller cycle in the diesel engine. <i>Results in Engineering</i> , 2021, 12, 100279. | 2.2 | 20 |
| 31 | Developing an automated monitoring system for fast and accurate prediction of soil texture using an image-based deep learning network and machine vision system. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 190, 110669. | 2.5 | 20 |
| 32 | Determination of the physical and mechanical properties of a potato (the Agria variety) in order to mechanise the harvesting and post-harvesting operations. <i>Research in Agricultural Engineering</i> , 2019, 65, 33-39. | 0.5 | 19 |
| 33 | Potato creep analysis during storage using experimental measurement and finite element method (FEM). <i>Journal of Food Process Engineering</i> , 2020, 43, e13522. | 1.5 | 17 |
| 34 | Potentiometric of bioethanol production from cantaloupe waste (Magassi Neishabouri Cultivar). <i>Journal of the Saudi Society of Agricultural Sciences</i> , 2020, 19, 51-55. | 1.0 | 16 |
| 35 | Assessing acoustic emission in 1055I John Deere combine harvester using statistical and artificial intelligence methods. <i>International Journal of Vehicle Noise and Vibration</i> , 2017, 13, 105. | 0.0 | 15 |
| 36 | Application of an olfactory system to detect and distinguish bitter chocolates with different percentages of cocoa. <i>Journal of Food Process Engineering</i> , 2019, 42, e13248. | 1.5 | 9 |

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|----|--|-----|-----------|
| 37 | Evaluation of solar panel cooling systems using anodized heat sink equipped with thermoelectric module through the parameters of temperature, power and efficiency. <i>Energy Conversion and Management: X</i> , 2021, 11, 100102. | 0.9 | 8 |
| 38 | Vibrations analysis of combine harvester seat in time and frequency domain. <i>Journal of Mechanical Engineering and Sciences</i> , 2020, 14, 6251-6258. | 0.3 | 8 |
| 39 | Simulation and Mechanical Stress Analysis of the Lower Link Arm of a Tractor Using Finite Element Method. <i>Journal of Failure Analysis and Prevention</i> , 2019, 19, 1666-1672. | 0.5 | 5 |
| 40 | Comparing Intelligence Quotient (IQ) among 3 to 7-year-old strabismic and nonstrabismic children in an Iranian population. <i>Global Journal of Health Science</i> , 2015, 8, 26. | 0.1 | 3 |
| 41 | Stress Analysis of Crossbar of Moldboard Plough Pulled by Massey Ferguson 285 and 299 Tractors. <i>Advances in Applied Sciences</i> , 2017, 2, 11. | 0.2 | 2 |
| 42 | Study on Greenhouse Gases Emissions from Two Common Cars in Iran (Paykan Pick-up and Pride). <i>International Journal of Mechanical Engineering and Applications</i> , 2017, 5, 287. | 0.3 | 2 |
| 43 | Assessing acoustic emission in 1055I John Deere combine harvester using statistical and artificial intelligence methods. <i>International Journal of Vehicle Noise and Vibration</i> , 2017, 13, 105. | 0.0 | 2 |
| 44 | The effect of combined resistance muffler on noise pollution and the allowable driver exposure in Massey-Ferguson tractors (MF 285 and MF 299). <i>Journal of the Saudi Society of Agricultural Sciences</i> , 2020, 19, 409-414. | 1.0 | 1 |
| 45 | Finite Element Fatigue Analysis of Mouldboard Plough Cross Bar Based on the Draft Force of MF 399 Tractor. <i>Journal of Failure Analysis and Prevention</i> , 2020, 20, 2106-2110. | 0.5 | 0 |
| 46 | Tolerance to dodder (<i>Cuscuta campestris</i> L.) in citrus species of south of Kerman province "Iran. <i>Journal of the Saudi Society of Agricultural Sciences</i> , 2021, , . | 1.0 | 0 |