

Osman Taylan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59
papers

1,099
citations

16
h-index

31
g-index

62
ext. papers

1,520
ext. citations

4.4
avg, IF

5.23
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 59 | Structural and bioactive characteristics of a dextran produced by <i>Lactobacillus kunkeei</i> AK1.. <i>International Journal of Biological Macromolecules</i> , 2022 , 200, 293-302 | 7.9 | 1 |
| 58 | Bioactive and technological properties of an β -D-glucan synthesized by <i>Weissella cibaria</i> PDER21.. <i>Carbohydrate Polymers</i> , 2022 , 285, 119227 | 10.3 | 1 |
| 57 | Hybrid enhanced Monte Carlo simulation coupled with advanced machine learning approach for accurate and efficient structural reliability analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022 , 388, 114218 | 5.7 | 9 |
| 56 | An Investigation on Spiking Neural Networks Based on the Izhikevich Neuronal Model: Spiking Processing and Hardware Approach. <i>Mathematics</i> , 2022 , 10, 612 | 2.3 | 0 |
| 55 | Central Nervous System: Overall Considerations Based on Hardware Realization of Digital Spiking Silicon Neurons (DSSNs) and Synaptic Coupling. <i>Mathematics</i> , 2022 , 10, 882 | 2.3 | 0 |
| 54 | Hybrid and enhanced PSO: Novel first order reliability method-based hybrid intelligent approaches. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022 , 393, 114730 | 5.7 | 6 |
| 53 | Vectorial surrogate modeling method for multi-objective reliability design. <i>Applied Mathematical Modelling</i> , 2022 , 109, 1-20 | 4.5 | 6 |
| 52 | Applications of Discrete Wavelet Transform for Feature Extraction to Increase the Accuracy of Monitoring Systems of Liquid Petroleum Products. <i>Mathematics</i> , 2021 , 9, 3215 | 2.3 | 7 |
| 51 | Designing a Solar Photovoltaic System for Generating Renewable Energy of a Hospital: Performance Analysis and Adjustment Based on RSM and ANFIS Approaches. <i>Mathematics</i> , 2021 , 9, 2929 ²⁻³ | 2.3 | 1 |
| 50 | Controlling Effects of Astrocyte on Neuron Behavior in Tripartite Synapse Using VHDLAMS. <i>Mathematics</i> , 2021 , 9, 2700 | 2.3 | 0 |
| 49 | Application of Wavelet Feature Extraction and Artificial Neural Networks for Improving the Performance of Gas-Liquid Two-Phase Flow Meters Used in Oil and Petrochemical Industries. <i>Polymers</i> , 2021 , 13, | 4.5 | 11 |
| 48 | Hybrid regression and machine learning model for predicting ultimate condition of FRP-confined concrete. <i>Composite Structures</i> , 2021 , 262, 113644 | 5.3 | 8 |
| 47 | A green nano-biosynthesis of selenium nanoparticles with Tarragon extract: Structural, thermal, and antimicrobial characterization. <i>LWT - Food Science and Technology</i> , 2021 , 141, 110969 | 5.4 | 11 |
| 46 | Application of Feature Extraction and Artificial Intelligence Techniques for Increasing the Accuracy of X-ray Radiation Based Two Phase Flow Meter. <i>Mathematics</i> , 2021 , 9, 1227 | 2.3 | 14 |
| 45 | Air Quality Modeling for Sustainable Clean Environment Using ANFIS and Machine Learning Approaches. <i>Atmosphere</i> , 2021 , 12, 713 | 2.7 | 0 |
| 44 | Application of Artificial Intelligence and Gamma Attenuation Techniques for Predicting Gas/Water Volume Fraction in Annular Regime of Three-Phase Flow Independent of Oil Pipeline Scale Layer. <i>Mathematics</i> , 2021 , 9, 1460 | 2.3 | 5 |
| 43 | A Tracer Microrheology for Determination of Viscoelasticity of Dilute Ovalbumin Colloids. <i>Emerging Materials Research</i> , 2021 , 10, 1-5 | 1.4 | |

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| 42 | Application of Gamma Attenuation Technique and Artificial Intelligence to Detect Scale Thickness in Pipelines in Which Two-Phase Flows with Different Flow Regimes and Void Fractions Exist. <i>Symmetry</i> , 2021 , 13, 1198 | 2.7 | 10 |
| 41 | Rapid detection of green-pea adulteration in pistachio nuts using Raman spectroscopy and chemometrics. <i>Journal of the Science of Food and Agriculture</i> , 2021 , 101, 1699-1708 | 4.3 | 6 |
| 40 | Frequency Domain Feature Extraction Investigation to Increase the Accuracy of an Intelligent Nondestructive System for Volume Fraction and Regime Determination of Gas-Water-Oil Three-Phase Flows. <i>Mathematics</i> , 2021 , 9, 2091 | 2.3 | 10 |
| 39 | Fabrication and characterization of bioactive nanoemulsion-based delivery systems. <i>Emerging Materials Research</i> , 2021 , 10, 265-271 | 1.4 | 0 |
| 38 | Proposing an Intelligent Dual-Energy Radiation-Based System for Metering Scale Layer Thickness in Oil Pipelines Containing an Annular Regime of Three-Phase Flow. <i>Mathematics</i> , 2021 , 9, 2391 | 2.3 | 4 |
| 37 | Rapid Screening of Essential Oil and L-Menthol in Essential Oil by ATR-FTIR Spectroscopy Coupled with Multivariate Analyses. <i>Foods</i> , 2021 , 10, | 4.9 | 4 |
| 36 | An alternative way to encapsulate probiotics within electrospun alginate nanofibers as monitored under simulated gastrointestinal conditions and in kefir. <i>Carbohydrate Polymers</i> , 2020 , 244, 116447 | 10.3 | 35 |
| 35 | Detection of lard in butter using Raman spectroscopy combined with chemometrics. <i>Food Chemistry</i> , 2020 , 332, 127344 | 8.5 | 16 |
| 34 | Structural and physicochemical characterisation and antioxidant activity of an β -D-glucan produced by sourdough isolate <i>Weissella cibaria</i> MED17. <i>International Journal of Biological Macromolecules</i> , 2020 , 161, 648-655 | 7.9 | 12 |
| 33 | An integrated neural-fuzzy methodology for characterisation and modelling of exopolysaccharide (EPS) production levels of <i>Leuconostoc mesenteroides</i> DL1. <i>Computers and Industrial Engineering</i> , 2020 , 148, 106619 | 6.4 | 0 |
| 32 | Synthesis and characterisation of alternan-stabilised silver nanoparticles and determination of their antibacterial and antifungal activities against foodborne pathogens and fungi. <i>LWT - Food Science and Technology</i> , 2020 , 128, 109497 | 5.4 | 17 |
| 31 | Assessment of Energy Systems Using Extended Fuzzy AHP, Fuzzy VIKOR, and TOPSIS Approaches to Manage Non-Cooperative Opinions. <i>Sustainability</i> , 2020 , 12, 2745 | 3.6 | 25 |
| 30 | Detection of Orange Essential Oil, Isopropyl Myristate, and Benzyl Alcohol in Lemon Essential Oil by FTIR Spectroscopy Combined with Chemometrics. <i>Foods</i> , 2020 , 10, | 4.9 | 7 |
| 29 | Optimization of lactose derivative hetero-oligosaccharides production using whey as the acceptor molecule by an active glucanucrase. <i>Biocatalysis and Biotransformation</i> , 2020 , 1-8 | 2.5 | 4 |
| 28 | Hospitality brand management by a score-based q-rung orthopair fuzzy V.I.K.O.R. method integrated with the best worst method. <i>Economic Research-Ekonomski Istrazivanja</i> , 2019 , 32, 3272-3301 | 2.5 | 9 |
| 27 | Partial characterization of a levan type exopolysaccharide (EPS) produced by <i>Leuconostoc mesenteroides</i> showing immunostimulatory and antioxidant activities. <i>International Journal of Biological Macromolecules</i> , 2019 , 136, 436-444 | 7.9 | 46 |
| 26 | Characterization of chemical, molecular, thermal and rheological properties of medlar pectin extracted at optimum conditions as determined by Box-Behnken and ANFIS models. <i>Food Chemistry</i> , 2019 , 271, 650-662 | 8.5 | 29 |
| 25 | Response surface methodology as optimization strategy for asymmetric bioreduction of acetophenone using whole cell of. <i>Preparative Biochemistry and Biotechnology</i> , 2019 , 49, 884-890 | 2.4 | 6 |

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| 24 | Electrospraying method for fabrication of essential oil loaded-chitosan nanoparticle delivery systems characterized by molecular, thermal, morphological and antifungal properties. <i>Innovative Food Science and Emerging Technologies</i> , 2019 , 52, 166-178 | 6.8 | 49 |
| 23 | Modeling and optimization of ultrasound-assisted cinnamon extraction process using fuzzy and response surface models. <i>Journal of Food Process Engineering</i> , 2019 , 42, e12978 | 2.4 | 4 |
| 22 | Contractor Selection for Construction Projects Using Consensus Tools and Big Data. <i>International Journal of Fuzzy Systems</i> , 2018 , 20, 1267-1281 | 3.6 | 22 |
| 21 | Bioenergy life cycle assessment and management in energy generation. <i>Energy Exploration and Exploitation</i> , 2018 , 36, 166-181 | 2.1 | 9 |
| 20 | Aerobic digestion of sewage sludge for waste treatment. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2017 , 39, 1056-1062 | 1.6 | 10 |
| 19 | Modelling and analysis of ozone concentration by artificial intelligent techniques for estimating air quality. <i>Atmospheric Environment</i> , 2017 , 150, 356-365 | 5.3 | 41 |
| 18 | Workplace assessment by fuzzy decision tree and TOPSIS methodologies to manage the occupational safety and health performance. <i>Journal of Intelligent and Fuzzy Systems</i> , 2017 , 33, 1209-1224 | 1.6 | 6 |
| 17 | Optimization of engineering student learning and assessment by cognitive methods 2017 , 2017, | | 3 |
| 16 | Biogas production from municipal sewage sludge (MSS). <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2016 , 38, 3027-3033 | 1.6 | 41 |
| 15 | Removing of resins from crude oils. <i>Petroleum Science and Technology</i> , 2016 , 34, 771-777 | 1.4 | 18 |
| 14 | An integrated multi attribute decision model for energy efficiency processes in petrochemical industry applying fuzzy set theory. <i>Energy Conversion and Management</i> , 2016 , 117, 501-512 | 10.6 | 53 |
| 13 | Measurement and prediction of correction factors for very high core compressive strength by using the adaptive neuro-fuzzy techniques. <i>Construction and Building Materials</i> , 2016 , 122, 320-331 | 6.7 | 9 |
| 12 | Forecasting and analysis of energy consumption for transportation in the Kingdom of Saudi Arabia. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2016 , 11, 1150-1157 | 3.1 | 8 |
| 11 | Commentary on [Construction projects selection and risk assessment by Fuzzy AHP and Fuzzy TOPSIS methodologies][Applied Soft Computing 17 (2014): 105-116]. <i>Applied Soft Computing Journal</i> , 2015 , 36, 419-421 | 7.5 | 11 |
| 10 | A comparative study on modelling material removal rate by ANFIS and polynomial methods in electrical discharge machining process. <i>Computers and Industrial Engineering</i> , 2015 , 79, 27-41 | 6.4 | 32 |
| 9 | Selection of Compressors for Petrochemical Industry in Terms of Reliability, Energy Consumption and Maintenance Costs Examining Different Scenarios. <i>Energy Exploration and Exploitation</i> , 2015 , 33, 43-62 | 2.1 | 5 |
| 8 | Construction projects selection and risk assessment by fuzzy AHP and fuzzy TOPSIS methodologies. <i>Applied Soft Computing Journal</i> , 2014 , 17, 105-116 | 7.5 | 320 |
| 7 | An Energy Efficiency Analysis of an Industrial Reheating Furnace and an Implementation of Efficiency Enhancements Methods. <i>Energy Exploration and Exploitation</i> , 2014 , 32, 989-1003 | 2.1 | 12 |

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| 6 | A hybrid methodology of fuzzy grey relation for determining multi attribute customer preferences of edible oil. <i>Applied Soft Computing Journal</i> , 2013 , 13, 2981-2989 | 7.5 | 9 |
| 5 | Fuzzy control charts for process quality improvement and product assessment in tip shear carpet industry. <i>Journal of Manufacturing Technology Management</i> , 2012 , 23, 402-420 | 7.1 | 12 |
| 4 | Determining optimal quality distribution of latex weight using adaptive neuro-fuzzy modeling and control systems. <i>Computers and Industrial Engineering</i> , 2011 , 61, 686-686 | 6.4 | 9 |
| 3 | Estimating the quality of process yield by fuzzy sets and systems. <i>Expert Systems With Applications</i> , 2011 , 38, 12599-12607 | 7.8 | 9 |
| 2 | An adaptive neuro-fuzzy model for prediction of student's academic performance. <i>Computers and Industrial Engineering</i> , 2009 , 57, 732-741 | 6.4 | 55 |
| 1 | Multi-extremum-modified response basis model for nonlinear response prediction of dynamic turbine blisk. <i>Engineering With Computers</i> , 1 | 4.5 | 32 |