

Osman Taylan

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

1,996
citations

218662

26
h-index

254170

43
g-index

62
all docs

62
docs citations

62
times ranked

1868
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Construction projects selection and risk assessment by fuzzy AHP and fuzzy TOPSIS methodologies. <i>Applied Soft Computing Journal</i> , 2014, 17, 105-116. | 7.2 | 428 |
| 2 | 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. | 6.6 | 87 |
| 3 | An adaptive neuro-fuzzy model for prediction of student's academic performance. <i>Computers and Industrial Engineering</i> , 2009, 57, 732-741. | 6.3 | 83 |
| 4 | 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. | 10.2 | 81 |
| 5 | 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. | 7.5 | 78 |
| 6 | 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. | 5.6 | 73 |
| 7 | Modelling and analysis of ozone concentration by artificial intelligent techniques for estimating air quality. <i>Atmospheric Environment</i> , 2017, 150, 356-365. | 4.1 | 63 |
| 8 | 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. | 9.2 | 59 |
| 9 | Assessment of Energy Systems Using Extended Fuzzy AHP, Fuzzy VIKOR, and TOPSIS Approaches to Manage Non-Cooperative Opinions. <i>Sustainability</i> , 2020, 12, 2745. | 3.2 | 54 |
| 10 | Multi-extremum-modified response basis model for nonlinear response prediction of dynamic turbine blisk. <i>Engineering With Computers</i> , 2022, 38, 1243-1254. | 6.1 | 54 |
| 11 | 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. | 6.6 | 53 |
| 12 | Biogas production from municipal sewage sludge (MSS). <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2016, 38, 3027-3033. | 2.3 | 52 |
| 13 | 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. | 8.2 | 47 |
| 14 | Detection of lard in butter using Raman spectroscopy combined with chemometrics. <i>Food Chemistry</i> , 2020, 332, 127344. | 8.2 | 40 |
| 15 | 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. | 6.3 | 39 |
| 16 | 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. | 5.2 | 39 |
| 17 | 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, 3647. | 4.5 | 37 |
| 18 | Vectorial surrogate modeling method for multi-objective reliability design. <i>Applied Mathematical Modelling</i> , 2022, 109, 1-20. | 4.2 | 36 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | 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. | 2.2 | 34 |
| 20 | Contractor Selection for Construction Projects Using Consensus Tools and Big Data. <i>International Journal of Fuzzy Systems</i> , 2018, 20, 1267-1281. | 4.0 | 33 |
| 21 | Structural and physicochemical characterisation and antioxidant activity of an $\hat{\pm}$ -D-glucan produced by sourdough isolate <i>Weissella cibaria</i> MED17. <i>International Journal of Biological Macromolecules</i> , 2020, 161, 648-655. | 7.5 | 33 |
| 22 | 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. | 2.2 | 33 |
| 23 | 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. | 2.2 | 29 |
| 24 | Removing of resins from crude oils. <i>Petroleum Science and Technology</i> , 2016, 34, 771-777. | 1.5 | 27 |
| 25 | 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. | 5.2 | 27 |
| 26 | Hybrid regression and machine learning model for predicting ultimate condition of FRP-confined concrete. <i>Composite Structures</i> , 2021, 262, 113644. | 5.8 | 27 |
| 27 | 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. | 2.2 | 27 |
| 28 | Rapid Screening of <i>Mentha spicata</i> Essential Oil and L-Menthol in <i>Mentha piperita</i> Essential Oil by ATR-FTIR Spectroscopy Coupled with Multivariate Analyses. <i>Foods</i> , 2021, 10, 202. | 4.3 | 25 |
| 29 | Detection of Orange Essential Oil, Isopropyl Myristate, and Benzyl Alcohol in Lemon Essential Oil by FTIR Spectroscopy Combined with Chemometrics. <i>Foods</i> , 2021, 10, 27. | 4.3 | 24 |
| 30 | Rapid detection of greenâ€œpea adulteration in pistachio nuts using Raman spectroscopy and chemometrics. <i>Journal of the Science of Food and Agriculture</i> , 2021, 101, 1699-1708. | 3.5 | 22 |
| 31 | Aerobic digestion of sewage sludge for waste treatment. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2017, 39, 1056-1062. | 2.3 | 21 |
| 32 | 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. | 6.4 | 19 |
| 33 | Bioactive and technological properties of an $\hat{\pm}$ -D-glucan synthesized by <i>Weissella cibaria</i> PDER21. <i>Carbohydrate Polymers</i> , 2022, 285, 119227. | 10.2 | 18 |
| 34 | 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. | 2.3 | 16 |
| 35 | 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, 7.2 419-421. | 7.2 | 14 |
| 36 | Bioenergy life cycle assessment and management in energy generation. <i>Energy Exploration and Exploitation</i> , 2018, 36, 166-181. | 2.3 | 14 |

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|----|---|-----|-----------|
| 37 | 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. | 7.5 | 14 |
| 38 | 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-Ekonomika Istrazivanja</i> , 2019, 32, 3272-3301. | 4.7 | 13 |
| 39 | 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. | 2.2 | 12 |
| 40 | 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. | 6.3 | 10 |
| 41 | Estimating the quality of process yield by fuzzy sets and systems. <i>Expert Systems With Applications</i> , 2011, 38, 12599-12607. | 7.6 | 10 |
| 42 | 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. | 7.2 | 9 |
| 43 | 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. | 7.2 | 9 |
| 44 | 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. | 2.9 | 9 |
| 45 | 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. | 3.4 | 8 |
| 46 | Response surface methodology as optimization strategy for asymmetric bioreduction of acetophenone using whole cell of <i>Lactobacillus senmaizukei</i> . <i>Preparative Biochemistry and Biotechnology</i> , 2019, 49, 884-890. | 1.9 | 8 |
| 47 | 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. | 1.4 | 7 |
| 48 | 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. | 2.3 | 6 |
| 49 | Application of Artificial Intelligence and Gamma Attenuation Techniques for Predicting Gas-Oil-Water Volume Fraction in Annular Regime of Three-Phase Flow Independent of Oil Pipeline's Scale Layer. <i>Mathematics</i> , 2021, 9, 1460. | 2.2 | 6 |
| 50 | Optimization of lactose derivative hetero-oligosaccharides production using whey as the acceptor molecule by an active glucanase. <i>Biocatalysis and Biotransformation</i> , 2022, 40, 9-16. | 2.0 | 5 |
| 51 | Optimization of engineering student learning and assessment by cognitive methods. <i>Engineering Education Letters</i> , 2017, 2017, . | 0.0 | 5 |
| 52 | Air Quality Modeling for Sustainable Clean Environment Using ANFIS and Machine Learning Approaches. <i>Atmosphere</i> , 2021, 12, 713. | 2.3 | 4 |
| 53 | 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. | 2.2 | 4 |
| 54 | An Investigation on Spiking Neural Networks Based on the Izhikevich Neuronal Model: Spiking Processing and Hardware Approach. <i>Mathematics</i> , 2022, 10, 612. | 2.2 | 3 |

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|----|--|-----|-----------|
| 55 | Controlling Effects of Astrocyte on Neuron Behavior in Tripartite Synapse Using VHDL AMS. Mathematics, 2021, 9, 2700. | 2.2 | 2 |
| 56 | An integrated neural-fuzzy methodology for characterisation and modelling of exopolysaccharide (EPS) production levels of <i>Leuconostoc mesenteroides</i> DL1. Computers and Industrial Engineering, 2020, 148, 106619. | 6.3 | 1 |
| 57 | A Tracer Microrheology for Determination of Viscoelasticity of Dilute Ovalbumin Colloids. Emerging Materials Research, 2021, 10, 1-5. | 0.7 | 1 |
| 58 | Fabrication and characterization of bioactive nanoemulsion-based delivery systems. Emerging Materials Research, 2021, 10, 265-271. | 0.7 | 1 |
| 59 | Central Nervous System: Overall Considerations Based on Hardware Realization of Digital Spiking Silicon Neurons (DSSNs) and Synaptic Coupling. Mathematics, 2022, 10, 882. | 2.2 | 1 |
| 60 | Facile biomimetic synthesis of AgNPs using aqueous extract of <i>Helichrysum arenarium</i> : characterization and antimicrobial activity. Inorganic and Nano-Metal Chemistry, 0, , 1-12. | 1.6 | 1 |
| 61 | Investigation of Time-Domain Feature Selection and GMDH Neural Network Application for Determination of Volume Percentages in X-Ray-Based Two-Phase Flow Meters. Mapan - Journal of Metrology Society of India, 0, , . | 1.5 | 1 |
| 62 | A competitive performance evaluation methodology in a manufacturing enterprise. , 2010, , . | | 0 |