

Amir Mosavi

List of Publications by Citations

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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.

448
papers

8,397
citations

43
h-index

69
g-index

605
ext. papers

12,619
ext. citations

3.8
avg, IF

7.43
L-index

#	Paper	IF	Citations
448	Flood Prediction Using Machine Learning Models: Literature Review. <i>Water (Switzerland)</i> , 2018 , 10, 15363		376
447	An ensemble prediction of flood susceptibility using multivariate discriminant analysis, classification and regression trees, and support vector machines. <i>Science of the Total Environment</i> , 2019 , 651, 2087-2096	10.2	303
446	State of the Art of Machine Learning Models in Energy Systems, a Systematic Review. <i>Energies</i> , 2019 , 12, 1301	3.1	156
445	Sustainable Business Models: A Review. <i>Sustainability</i> , 2019 , 11, 1663	3.6	145
444	Experimental Determination of Interfacial Tension and Miscibility of the CO ₂ Crude Oil System; Temperature, Pressure, and Composition Effects. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 61-69	2.8	128
443	On the evaluation of the viscosity of nanofluid systems: Modeling and data assessment. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 81, 313-329	16.2	122
442	Ensemble models with uncertainty analysis for multi-day ahead forecasting of chlorophyll a concentration in coastal waters. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 91-101	4.5	118
441	COVID-19 Pandemic Prediction for Hungary; A Hybrid Machine Learning Approach. <i>Mathematics</i> , 2020 , 8, 890	2.3	112
440	COVID-19 Outbreak Prediction with Machine Learning. <i>Algorithms</i> , 2020 , 13, 249	1.8	112
439	Flash-flood hazard assessment using ensembles and Bayesian-based machine learning models: Application of the simulated annealing feature selection method. <i>Science of the Total Environment</i> , 2020 , 711, 135161	10.2	110
438	Toward a predictive model for estimating viscosity of ternary mixtures containing ionic liquids. <i>Journal of Molecular Liquids</i> , 2014 , 200, 340-348	6	106
437	Prediction of Hydropower Generation Using Grey Wolf Optimization Adaptive Neuro-Fuzzy Inference System. <i>Energies</i> , 2019 , 12, 289	3.1	99
436	Visual analytics. <i>SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining</i> , 2010 , 11, 5-8	4.6	92
435	Identifying damage locations under ambient vibrations utilizing vector autoregressive models and Mahalanobis distances. <i>Mechanical Systems and Signal Processing</i> , 2012 , 26, 254-267	7.8	89
434	Predicting Standardized Streamflow index for hydrological drought using machine learning models. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 339-350	4.5	88
433	Rifaximin: a nonabsorbed antimicrobial in the therapy of travelers' diarrhea. <i>Digestion</i> , 1998 , 59, 708-14	3.6	80
432	Integrated machine learning methods with resampling algorithms for flood susceptibility prediction. <i>Science of the Total Environment</i> , 2020 , 705, 135983	10.2	79

431	Prediction of multi-inputs bubble column reactor using a novel hybrid model of computational fluid dynamics and machine learning. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 482-492	4.5	77
430	Prediction of sour gas compressibility factor using an intelligent approach. <i>Fuel Processing Technology</i> , 2013 , 116, 209-216	7.2	77
429	Deep Learning for Stock Market Prediction. <i>Entropy</i> , 2020 , 22,	2.8	73
428	Predicting Stock Market Trends Using Machine Learning and Deep Learning Algorithms Via Continuous and Binary Data; a Comparative Analysis. <i>IEEE Access</i> , 2020 , 8, 150199-150212	3.5	64
427	Investigation of submerged structures flexibility on sloshing frequency using a boundary element method and finite element analysis. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 519-528	4.5	63
426	Deep Learning for Detecting Building Defects Using Convolutional Neural Networks. <i>Sensors</i> , 2019 , 19,	3.8	62
425	Snow avalanche hazard prediction using machine learning methods. <i>Journal of Hydrology</i> , 2019 , 577, 123929	6	62
424	Application of adaptive neuro fuzzy interface system optimized with evolutionary algorithms for modeling CO ₂ -crude oil minimum miscibility pressure. <i>Fuel</i> , 2017 , 205, 34-45	7.1	60
423	Toward mechanistic understanding of asphaltene aggregation behavior in toluene: The roles of asphaltene structure, aging time, temperature, and ultrasonic radiation. <i>Journal of Molecular Liquids</i> , 2018 , 264, 410-424	6	59
422	An Intelligent Artificial Neural Network-Response Surface Methodology Method for Accessing the Optimum Biodiesel and Diesel Fuel Blending Conditions in a Diesel Engine from the Viewpoint of Exergy and Energy Analysis. <i>Energies</i> , 2018 , 11, 860	3.1	58
421	Spatial hazard assessment of the PM ₁₀ using machine learning models in Barcelona, Spain. <i>Science of the Total Environment</i> , 2020 , 701, 134474	10.2	58
420	Wind speed prediction using a hybrid model of the multi-layer perceptron and whale optimization algorithm. <i>Energy Reports</i> , 2020 , 6, 1147-1159	4.6	56
419	Novel Ensemble Approach of Deep Learning Neural Network (DLNN) Model and Particle Swarm Optimization (PSO) Algorithm for Prediction of Gully Erosion Susceptibility. <i>Sensors</i> , 2020 , 20,	3.8	55
418	Modeling interfacial tension and minimum miscibility pressure in paraffin-nitrogen systems: Application to gas injection processes. <i>Fuel</i> , 2017 , 205, 80-89	7.1	53
417	ANFIS pattern for molecular membranes separation optimization. <i>Journal of Molecular Liquids</i> , 2019 , 274, 470-476	6	53
416	Sugarcane growth prediction based on meteorological parameters using extreme learning machine and artificial neural network. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018 , 12, 738-749	4.5	52
415	Securing IoT-Based RFID Systems: A Robust Authentication Protocol Using Symmetric Cryptography. <i>Sensors</i> , 2019 , 19,	3.8	51
414	Ensemble Boosting and Bagging Based Machine Learning Models for Groundwater Potential Prediction. <i>Water Resources Management</i> , 2021 , 35, 23-37	3.7	49

413	Modeling Pan Evaporation Using Gaussian Process Regression K-Nearest Neighbors Random Forest and Support Vector Machines; Comparative Analysis. <i>Atmosphere</i> , 2020 , 11, 66	2.7	48
412	Accurate determination of the CO ₂ -crude oil minimum miscibility pressure of pure and impure CO ₂ streams: A robust modelling approach. <i>Canadian Journal of Chemical Engineering</i> , 2016 , 94, 253-261	2.3	47
411	Estimating longitudinal dispersion coefficient in natural streams using empirical models and machine learning algorithms. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 311-322	2.5	45
410	A Hybrid clustering and classification technique for forecasting short-term energy consumption. <i>Environmental Progress and Sustainable Energy</i> , 2019 , 38, 66-76	2.5	45
409	Groundwater Quality Assessment for Sustainable Drinking and Irrigation. <i>Sustainability</i> , 2020 , 12, 177	3.6	45
408	Modeling gas/vapor viscosity of hydrocarbon fluids using a hybrid GMDH-type neural network system. <i>Journal of Molecular Liquids</i> , 2017 , 236, 162-171	6	44
407	Modeling and Uncertainty Analysis of Groundwater Level Using Six Evolutionary Optimization Algorithms Hybridized with ANFIS, SVM, and ANN. <i>Sustainability</i> , 2020 , 12, 4023	3.6	44
406	Prediction of Compression Index of Fine-Grained Soils Using a Gene Expression Programming Model. <i>Infrastructures</i> , 2019 , 4, 26	2.6	43
405	Coronary Artery Disease Diagnosis; Ranking the Significant Features Using a Random Trees Model. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	43
404	Renewable Energy Technology Selection Problem Using Integrated H-SWARA-MULTIMOORA Approach. <i>Sustainability</i> , 2018 , 10, 4481	3.6	43
403	A soft computing approach for the determination of crude oil viscosity: Light and intermediate crude oil systems. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 59, 1-10	5.3	42
402	Flash Flood Susceptibility Modeling Using New Approaches of Hybrid and Ensemble Tree-Based Machine Learning Algorithms. <i>Remote Sensing</i> , 2020 , 12, 3568	5	42
401	Evaluation of electrical efficiency of photovoltaic thermal solar collector. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 545-565	4.5	42
400	Predicting and Mapping of Soil Organic Carbon Using Machine Learning Algorithms in Northern Iran. <i>Remote Sensing</i> , 2020 , 12, 2234	5	42
399	Aeromechanical optimization of first row compressor test stand blades using a hybrid machine learning model of genetic algorithm, artificial neural networks and design of experiments. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 892-904	4.5	41
398	GIS-Based Machine Learning Algorithms for Gully Erosion Susceptibility Mapping in a Semi-Arid Region of Iran. <i>Remote Sensing</i> , 2020 , 12, 2478	5	41
397	Principal component analysis to study the relations between the spread rates of COVID-19 in high risks countries. <i>AEJ - Alexandria Engineering Journal</i> , 2021 , 60, 457-464	6.1	41
396	A smooth model for the estimation of gas/vapor viscosity of hydrocarbon fluids. <i>Journal of Natural Gas Science and Engineering</i> , 2015 , 26, 1452-1459	4.6	40

395	Application of Wilcoxon generalized radial basis function network for prediction of natural gas compressibility factor. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015 , 50, 131-141	5.3	40
394	Prediction of remaining service life of pavement using an optimized support vector machine (case study of SemnanBiruzkuh road). <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 188-198	4.5	40
393	Prediction of Thermo-Physical Properties of TiO-ALO/Water Nanoparticles by Using Artificial Neural Network. <i>Nanomaterials</i> , 2020 , 10,	5.4	40
392	Flutter speed estimation using presented differential quadrature method formulation. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 804-810	4.5	39
391	Modeling temperature-based oil-water relative permeability by integrating advanced intelligent models with grey wolf optimization: Application to thermal enhanced oil recovery processes. <i>Fuel</i> , 2019 , 242, 649-663	7.1	39
390	Ensemble models of GLM, FDA, MARS, and RF for flood and erosion susceptibility mapping: a priority assessment of sub-basins. <i>Geocarto International</i> , 2020 , 1-20	2.7	39
389	Estimating Daily Dew Point Temperature Using Machine Learning Algorithms. <i>Water (Switzerland)</i> , 2019 , 11, 582	3	38
388	A rigorous approach for determining interfacial tension and minimum miscibility pressure in paraffin-CO ₂ systems: Application to gas injection processes. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 63, 107-115	5.3	38
387	Rheological Behavior of Surface Modified Silica Nanoparticles Dispersed in Partially Hydrolyzed Polyacrylamide and Xanthan Gum Solutions: Experimental Measurements, Mechanistic Understanding, and Model Development. <i>Energy & Fuels</i> , 2018 , 32, 10628-10638	4.1	38
386	Earth fissure hazard prediction using machine learning models. <i>Environmental Research</i> , 2019 , 179, 108770	7.0	37
385	Machine learning information fusion in Earth observation: A comprehensive review of methods, applications and data sources. <i>Information Fusion</i> , 2020 , 63, 256-272	16.7	37
384	Data Science in Economics: Comprehensive Review of Advanced Machine Learning and Deep Learning Methods. <i>Mathematics</i> , 2020 , 8, 1799	2.3	37
383	A rigorous approach to predict nitrogen-crude oil minimum miscibility pressure of pure and nitrogen mixtures. <i>Fluid Phase Equilibria</i> , 2015 , 399, 30-39	2.5	36
382	Predicting solubility of CO ₂ in brine by advanced machine learning systems: Application to carbon capture and sequestration. <i>Journal of CO₂ Utilization</i> , 2019 , 33, 83-95	7.6	34
381	Modeling interfacial tension in N ₂ /n-alkane systems using corresponding state theory: Application to gas injection processes. <i>Fuel</i> , 2018 , 222, 779-791	7.1	34
380	Susceptibility Mapping of Soil Water Erosion Using Machine Learning Models. <i>Water (Switzerland)</i> , 2020 , 12, 1995	3	34
379	Integrating synthesized citric acid-coated magnetite nanoparticles with magnetic fields for enhanced oil recovery: Experimental study and mechanistic understanding. <i>Journal of Petroleum Science and Engineering</i> , 2019 , 174, 425-436	4.4	32
378	Modeling CO ₂ Solubility in Water at High Pressure and Temperature Conditions. <i>Energy & Fuels</i> , 2020 , 34, 4761-4776	4.1	31

377	COVID-19 Outbreak Prediction with Machine Learning		31
376	Deep Learning and Machine Learning in Hydrological Processes Climate Change and Earth Systems a Systematic Review. <i>Lecture Notes in Networks and Systems</i> , 2020 , 52-62	0.5	30
375	Comparative analysis of soft computing techniques RBF, MLP, and ANFIS with MLR and MNLR for predicting grade-control scour hole geometry. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 529-550	4.5	29
374	Effect of Temperature on Daily Modal Variability of a Steel-Concrete Composite Bridge. <i>Journal of Bridge Engineering</i> , 2012 , 17, 979-983	2.7	29
373	Application of nanofluids for treating fines migration during hydraulic fracturing: Experimental study and mechanistic understanding. <i>Advances in Geo-Energy Research</i> , 2019 , 3, 198-206	6.2	29
372	Zoning map for drought prediction using integrated machine learning models with a nomadic people optimization algorithm. <i>Natural Hazards</i> , 2020 , 104, 537-579	3	29
371	Developing an ANFIS-PSO Model to Predict Mercury Emissions in Combustion Flue Gases. <i>Mathematics</i> , 2019 , 7, 965	2.3	28
370	Susceptibility Prediction of Groundwater Hardness Using Ensemble Machine Learning Models. <i>Water (Switzerland)</i> , 2020 , 12, 2770	3	28
369	Finding the best station in Belgium to use residential-scale solar heating, One-year dynamic simulation with considering all system losses: Economic analysis of using ETSW. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 45, 101097	4.7	28
368	Using SVM-RSM and ELM-RSM Approaches for Optimizing the Production Process of Methyl and Ethyl Esters. <i>Energies</i> , 2018 , 11, 2889	3.1	28
367	Support Vector Regression Integrated with Fruit Fly Optimization Algorithm for River Flow Forecasting in Lake Urmia Basin. <i>Water (Switzerland)</i> , 2019 , 11, 1934	3	27
366	Review of Soft Computing Models in Design and Control of Rotating Electrical Machines. <i>Energies</i> , 2019 , 12, 1049	3.1	27
365	A New Online Learned Interval Type-3 Fuzzy Control System for Solar Energy Management Systems. <i>IEEE Access</i> , 2021 , 9, 10498-10508	3.5	27
364	Prediction of significant wave height; comparison between nested grid numerical model, and machine learning models of artificial neural networks, extreme learning and support vector machines. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 805-817	4.5	26
363	Numerical simulation of pressure pulsation effects of a snubber in a CNG station for increasing measurement accuracy. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 642-663	4.5	26
362	The Cooling Effect of Large-Scale Urban Parks on Surrounding Area Thermal Comfort. <i>Energies</i> , 2019 , 12, 3904	3.1	26
361	COVID-19 Outbreak Prediction with Machine Learning. <i>SSRN Electronic Journal</i> ,	1	26
360	Systematic Review of Deep Learning and Machine Learning Models in Biofuels Research. <i>Lecture Notes in Networks and Systems</i> , 2020 , 19-32	0.5	26

359	Comprehensive Review of Deep Reinforcement Learning Methods and Applications in Economics. <i>Mathematics</i> , 2020 , 8, 1640	2.3	26
358	Application of Gene Expression Programming (GEP) for the Prediction of Compressive Strength of Geopolymer Concrete. <i>Materials</i> , 2021 , 14,	3.5	26
357	A New K-Nearest Neighbors Classifier for Big Data Based on Efficient Data Pruning. <i>Mathematics</i> , 2020 , 8, 286	2.3	25
356	DistBlockBuilding: A Distributed Blockchain-Based SDN-IoT Network for Smart Building Management. <i>IEEE Access</i> , 2020 , 8, 140008-140018	3.5	25
355	Implementation of soft computing approaches for prediction of physicochemical properties of ionic liquid mixtures. <i>Korean Journal of Chemical Engineering</i> , 2017 , 34, 425-439	2.8	24
354	Modeling heat capacity of ionic liquids using group method of data handling: A hybrid and structure-based approach. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 129, 7-17	4.9	24
353	Development of robust generalized models for estimating the normal boiling points of pure chemical compounds. <i>Journal of Molecular Liquids</i> , 2017 , 242, 59-69	6	23
352	Development of a robust model for prediction of under-saturated reservoir oil viscosity. <i>Journal of Molecular Liquids</i> , 2017 , 229, 89-97	6	23
351	River Water Salinity Prediction Using Hybrid Machine Learning Models. <i>Water (Switzerland)</i> , 2020 , 12, 2951	3	23
350	Comparison of LSSVM model results with artificial neural network model for determination of the solubility of SO ₂ in ionic liquids. <i>Journal of Molecular Liquids</i> , 2020 , 304, 112771	6	23
349	Reviewing the Novel Machine Learning Tools for Materials Design. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 50-58	0.4	23
348	Mass wasting susceptibility assessment of snow avalanches using machine learning models. <i>Scientific Reports</i> , 2020 , 10, 18363	4.9	23
347	Sustainable Banking; Evaluation of the European Business Models. <i>Sustainability</i> , 2020 , 12, 2314	3.6	22
346	Modeling the time-dependent characteristics of perovskite solar cells. <i>Solar Energy</i> , 2018 , 170, 969-973	6.8	22
345	Design and Validation of a Computational Program for Analysing Mental Maps: Aram Mental Map Analyzer. <i>Sustainability</i> , 2019 , 11, 3790	3.6	22
344	Compressive Strength of Sustainable Geopolymer Concrete Composites: A State-of-the-Art Review. <i>Sustainability</i> , 2021 , 13, 13502	3.6	22
343	Short-Term Hydrological Drought Forecasting Based on Different Nature-Inspired Optimization Algorithms Hybridized With Artificial Neural Networks. <i>IEEE Access</i> , 2020 , 8, 15210-15222	3.5	22
342	Prediction of Food Production Using Machine Learning Algorithms of Multilayer Perceptron and ANFIS. <i>Agriculture (Switzerland)</i> , 2021 , 11, 408	3	22

341	Improving the spatial prediction of soil salinity in arid regions using wavelet transformation and support vector regression models. <i>Geoderma</i> , 2021 , 383, 114793	6.7	22
340	Modeling temperature dependency of oil - water relative permeability in thermal enhanced oil recovery processes using group method of data handling and gene expression programming. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 724-743	4.5	21
339	Integration of Machine Learning and Optimization for Robot Learning. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 349-355	0.4	21
338	Advances in Machine Learning Modeling Reviewing Hybrid and Ensemble Methods. <i>Lecture Notes in Networks and Systems</i> , 2020 , 215-227	0.5	21
337	Computational modeling of land surface temperature using remote sensing data to investigate the spatial arrangement of buildings and energy consumption relationship. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 254-270	4.5	21
336	The molecular dynamics simulation of thermal manner of Ar/Cu nanofluid flow: The effects of spherical barriers size. <i>Journal of Molecular Liquids</i> , 2020 , 319, 114183	6	21
335	Towards an Ensemble Machine Learning Model of Random Subspace Based Functional Tree Classifier for Snow Avalanche Susceptibility Mapping. <i>IEEE Access</i> , 2020 , 8, 145968-145983	3.5	21
334	Fault Diagnosis of Rotating Electrical Machines Using Multi-Label Classification. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5086	2.6	21
333	Susceptibility mapping of groundwater salinity using machine learning models. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 10804-10817	5.1	21
332	SmartBlock-SDN: An Optimized Blockchain-SDN Framework for Resource Management in IoT. <i>IEEE Access</i> , 2021 , 9, 28361-28376	3.5	21
331	Application of Nanosilica for inhibition of fines migration during low salinity water injection: Experimental study, mechanistic understanding, and model development. <i>Fuel</i> , 2019 , 242, 846-862	7.1	20
330	Artificial Intelligence Based Methods for Asphaltene Adsorption by Nanocomposites: Application of Group Method of Data Handling, Least Squares Support Vector Machine, and Artificial Neural Networks. <i>Nanomaterials</i> , 2020 , 10,	5.4	20
329	Insights into the Effects of Pore Size Distribution on the Flowing Behavior of Carbonate Rocks: Linking a Nano-Based Enhanced Oil Recovery Method to Rock Typing. <i>Nanomaterials</i> , 2020 , 10,	5.4	20
328	List of Deep Learning Models. <i>Lecture Notes in Networks and Systems</i> , 2020 , 202-214	0.5	20
327	Fractional-Order Fuzzy Control Approach for Photovoltaic/Battery Systems under Unknown Dynamics, Variable Irradiation and Temperature. <i>Electronics (Switzerland)</i> , 2020 , 9, 1455	2.6	20
326	Groundwater Salinity Susceptibility Mapping Using Classifier Ensemble and Bayesian Machine Learning Models. <i>IEEE Access</i> , 2020 , 8, 145564-145576	3.5	20
325	A Novel Fractional-Order Multiple-Model Type-3 Fuzzy Control for Nonlinear Systems with Unmodeled Dynamics. <i>International Journal of Fuzzy Systems</i> , 2021 , 23, 1633	3.6	20
324	On the evaluation of thermal conductivity of ionic liquids: Modeling and data assessment. <i>Journal of Molecular Liquids</i> , 2016 , 224, 648-656	6	20

323	On the evaluation of density of ionic liquid binary mixtures: Modeling and data assessment. <i>Journal of Molecular Liquids</i> , 2016 , 222, 745-751	6	20
322	Performance evaluation of binders and Stone Matrix Asphalt (SMA) mixtures modified by Ground Tire Rubber (GTR), waste Polyethylene Terephthalate (PET) and Anti Stripping Agents (ASAs). <i>Construction and Building Materials</i> , 2020 , 251, 118932	6.7	19
321	Determination of asphaltene precipitation conditions during natural depletion of oil reservoirs: A robust compositional approach. <i>Fluid Phase Equilibria</i> , 2016 , 412, 235-248	2.5	19
320	Urban heat resilience at the time of global warming: evaluating the impact of the urban parks on outdoor thermal comfort. <i>Environmental Sciences Europe</i> , 2020 , 32,	5	19
319	Energy Consumption Prediction Using Machine Learning; A Review		19
318	Application of cascade forward neural network and group method of data handling to modeling crude oil pyrolysis during thermal enhanced oil recovery. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 205, 108836	4.4	19
317	Mapping the spatial and temporal variability of flood hazard affected by climate and land-use changes in the future. <i>Journal of Environmental Management</i> , 2021 , 298, 113551	7.9	19
316	Comparative Analysis of Artificial Intelligence Models for Accurate Estimation of Groundwater Nitrate Concentration. <i>Sensors</i> , 2020 , 20,	3.8	18
315	Spatial Analysis of Seasonal Precipitation over Iran: Co-Variation with Climate Indices. <i>ISPRS International Journal of Geo-Information</i> , 2020 , 9, 73	2.9	18
314	Toward generalized models for estimating molecular weights and acentric factors of pure chemical compounds. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 2699-2717	6.7	18
313	A computational intelligence scheme for estimating electrical conductivity of ternary mixtures containing ionic liquids. <i>Journal of Molecular Liquids</i> , 2016 , 221, 624-632	6	18
312	Deep Learning: A Review		18
311	Training Multilayer Perceptron with Genetic Algorithms and Particle Swarm Optimization for Modeling Stock Price Index Prediction. <i>Entropy</i> , 2020 , 22,	2.8	18
310	Evaluation efficiency of hybrid deep learning algorithms with neural network decision tree and boosting methods for predicting groundwater potential. <i>Geocarto International</i> , 2021 , 1-21	2.7	18
309	Time series forecasting of new cases and new deaths rate for COVID-19 using deep learning methods. <i>Results in Physics</i> , 2021 , 27, 104495	3.7	18
308	Modeling hydrogen solubility in hydrocarbons using extreme gradient boosting and equations of state. <i>Scientific Reports</i> , 2021 , 11, 17911	4.9	18
307	A Hybrid Machine Learning Approach for Daily Prediction of Solar Radiation. <i>Lecture Notes in Networks and Systems</i> , 2019 , 266-274	0.5	17
306	State of the Art Survey of Deep Learning and Machine Learning Models for Smart Cities and Urban Sustainability		17

305	Advances in Machine Learning Modeling Reviewing Hybrid and Ensemble Methods		17
304	Building Energy Information: Demand and Consumption Prediction with Machine Learning Models for Sustainable and Smart Cities. <i>Lecture Notes in Networks and Systems</i> , 2020 , 191-201	0.5	17
303	Learning and Intelligent Optimization for Material Design Innovation. <i>Lecture Notes in Computer Science</i> , 2017 , 358-363	0.9	17
302	A Hybrid Neuro-Fuzzy Algorithm for Prediction of Reference Evapotranspiration. <i>Lecture Notes in Networks and Systems</i> , 2019 , 235-243	0.5	17
301	Deep Learning for Wave Energy Converter Modeling Using Long Short-Term Memory. <i>Mathematics</i> , 2021 , 9, 871	2.3	17
300	Intelligent Road Inspection with Advanced Machine Learning; Hybrid Prediction Models for Smart Mobility and Transportation Maintenance Systems. <i>Energies</i> , 2020 , 13, 1718	3.1	17
299	A Step towards Sustainable Self-Compacting Concrete by Using Partial Substitution of Wheat Straw Ash and Bentonite Clay Instead of Cement. <i>Sustainability</i> , 2021 , 13, 824	3.6	17
298	Predicting the Degree of Dissolved Oxygen Using Three Types of Multi-Layer Perceptron-Based Artificial Neural Networks. <i>Sustainability</i> , 2021 , 13, 9898	3.6	17
297	Modeling climate change impact on wind power resources using adaptive neuro-fuzzy inference system. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 491-506	4.5	16
296	Calibrating a high-fidelity finite element model of a highway bridge using a multi-variable sensitivity-based optimisation approach. <i>Structure and Infrastructure Engineering</i> , 2014 , 10, 627-642	2.9	16
295	Flood Prediction Using Machine Learning, Literature Review		16
294	Social Capital Contributions to Food Security: A Comprehensive Literature Review. <i>Foods</i> , 2020 , 9,	4.9	16
293	Synthesis of new dihybrid nanofluid of TiO ₂ /MWCNT in water/ethylene glycol to improve mixture thermal performance: preparation, characterization, and a novel correlation via ANN based on orthogonal distance regression algorithm. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 144, 2587	4.1	16
292	Deep learned recurrent type-3 fuzzy system: Application for renewable energy modeling/prediction. <i>Energy Reports</i> , 2021 , 7, 8115-8115	4.6	16
291	Comparative analysis of kernel-based versus ANN and deep learning methods in monthly reference evapotranspiration estimation. <i>Hydrology and Earth System Sciences</i> , 2021 , 25, 603-618	5.5	16
290	An Innovative Metaheuristic Strategy for Solar Energy Management through a Neural Networks Framework. <i>Energies</i> , 2021 , 14, 1196	3.1	16
289	Generalized models for predicting the critical properties of pure chemical compounds. <i>Journal of Molecular Liquids</i> , 2017 , 240, 777-793	6	15
288	Rigorous Connectionist Models to Predict Carbon Dioxide Solubility in Various Ionic Liquids. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 304	2.6	15

287	Prediction of flow characteristics in the bubble column reactor by the artificial pheromone-based communication of biological ants. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 367-378	4.5	15
286	A Combined Method of Image Processing and Artificial Neural Network for the Identification of 13 Iranian Rice Cultivars. <i>Agronomy</i> , 2020 , 10, 117	3.6	15
285	Applying ANN, ANFIS, and LSSVM Models for Estimation of Acid Solvent Solubility in Supercritical CO ₂		15
284	List of Deep Learning Models		15
283	Energy-Efficient Method for Wireless Sensor Networks Low-Power Radio Operation in Internet of Things. <i>Electronics (Switzerland)</i> , 2020 , 9, 320	2.6	15
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