Trung Nguyen-Thoi

List of Publications by Year
in descending order

319 papers	15,600 citations	19657 61 h-index	28297 105 g-index
335 all docs	335 docs citations	335 times ranked	5753 citing authors

#	Article	IF	Citations
1	An effective damage identification procedure using model updating technique and multi-objective optimization algorithm for structures made of functionally graded materials. Engineering With Computers, 2023, 39, 1229-1247.	6.1	13
2	Size-dependent analysis of functionally graded carbon nanotube-reinforced composite nanoshells with double curvature based on nonlocal strain gradient theory. Engineering With Computers, 2023, 39, 109-128.	6.1	5
3	Free vibration analysis of nanoplates with auxetic honeycomb core using a new third-order finite element method and nonlocal elasticity theory. Engineering With Computers, 2023, 39, 233-251.	6.1	21
4	Microstructure and inertial effects on natural convection micropolar nanofluid flow about a solid sphere. International Journal of Ambient Energy, 2022, 43, 666-677.	2.5	12
5	A new approach for face detection using the maximum function of probability density functions. Annals of Operations Research, 2022, 312, 99-119.	4.1	6
6	Nonlinear thermomechanical buckling of sandwich FGM oblique stiffened plates with nonlinear effect of elastic foundation. Journal of Thermoplastic Composite Materials, 2022, 35, 1441-1467.	4.2	12
7	A finite element formulation using four-unknown incorporating nonlocal theory for bending and free vibration analysis of functionally graded nanoplates resting on elastic medium foundations. Engineering With Computers, 2022, 38, 1465-1490.	6.1	40
8	A novel hybrid extreme learning machineâ€“grey wolf optimizer (ELM-GWO) model to predict compressive strength of concrete with partial replacements for cement. Engineering With Computers, 2022, 38, 757-779.	6.1	143
9	Ensemble modeling of landslide susceptibility using random subspace learner and different decision tree classifiers. Geocarto International, 2022, 37, 735-757.	3.5	59
10	A comparative study of different dynamic condensation techniques applied to multi-damage identification of FGM and FG-CNTRC plates. Engineering With Computers, 2022, 38, 3951-3975.	6.1	9
11	Novel hybrid machine leaning model for predicting shear strength of reinforced concrete shear walls. Engineering With Computers, 2022, 38, 3915-3926.	6.1	16
12	Optimization of dynamic properties for laminated multiphase nanocomposite sandwich conical shell in thermal and magnetic conditions. Journal of Sandwich Structures and Materials, 2022, 24, 643-662.	3.5	30
13	Free vibration of functionally graded porous non-uniform thickness annular-nanoplates resting on elastic foundation using ES-MITC3 element. AEJ - Alexandria Engineering Journal, 2022, 61, 1788-1802.	6.4	35
14	Bending and hygro-thermo-mechanical vibration analysis of a functionally graded porous sandwich nanoshell resting on elastic foundation. Mechanics of Advanced Materials and Structures, 2022, 29, 5885-5905.	2.6	30
15	Isogeometric analysis for free vibration of bidirectional functionally graded plates in the fluid medium. Defence Technology, 2022, 18, 1311-1329.	4.2	27
16	Improved Levenbergâ€“Marquardt backpropagation neural network by particle swarm and whale optimization algorithms to predict the deflection of RC beams. Engineering With Computers, 2022, 38, 3847-3869.	6.1	25
17	Multi-Objective Optimization of Laminated Functionally Graded Carbon Nanotube-Reinforced Composite Plates Using Deep Feedforward Neural Networks-NSGAII Algorithm. International Journal of Computational Methods, 2022, 19, .	1.3	9
18	Effects of partially supported elastic foundation on free vibration of FGP plates using ES-MITC3 elements. Ain Shams Engineering Journal, 2022, 13, 101615.	6.1	29

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19	Joint damage detection of structures with noisy data by an effective deep learning framework using autoencoder-convolutional gated recurrent unit. Ocean Engineering, 2022, 243, 110142.	4.3	14
20	Optimization of haulage-truck system performance for ore production in open-pit mines using big data and machine learning-based methods. Resources Policy, 2022, 75, 102522.	9.6	10
21	Analysis and prediction of diaphragm wall deflection induced by deep braced excavations using finite element method and artificial neural network optimized by metaheuristic algorithms. Reliability Engineering and System Safety, 2022, 221, 108335.	8.9	28
22	Analysis and optimal control of smart damping for porous functionally graded magneto-electro-elastic plate using smoothed FEM and metaheuristic algorithm. Engineering Structures, 2022, 259, 114062.	5.3	20
23	A finite element level-set method for stress-based topology optimization of plate structures. Computers and Mathematics With Applications, 2022, 115, 26-40.	2.7	12
24	An effective framework for real-time structural damage detection using one-dimensional convolutional gated recurrent unit neural network and high performance computing. Ocean Engineering, 2022, 253, 111202.	4.3	20
25	Free vibration characteristic analysis of functionally graded shells with porosity and neutral surface effects. Ocean Engineering, 2022, 255, 111377.	4.3	11
26	Smoothed finite element approach for viscoelastic behaviors of general shell structures. Thin-Walled Structures, 2022, 176, 109323.	5.3	4
27	Multi-objective optimization of the active constrained layer damping for smart damping treatment in magneto-electro-elastic plate structures. International Journal of Mechanics and Materials in Design, 2022, 18, 633-663.	3.0	8
28	Frequency response analysis of edge-cracked magneto-electro-elastic functionally graded plates using extended finite element method. Theoretical and Applied Fracture Mechanics, 2022, 120, 103417.	4.7	11
29	Geometrically nonlinear behavior of two-directional functionally graded porous plates with four different materials. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 11008-11023.	2.1	19
30	Thermomechanical postbuckling of functionally graded graphene-reinforced composite laminated toroidal shell segments surrounded by Pasternakâ€™s elastic foundation. Journal of Thermoplastic Composite Materials, 2021, 34, 1380-1407.	4.2	17
31	A hybrid sufficient performance measure approach to improve robustness and efficiency of reliability-based design optimization. Engineering With Computers, 2021, 37, 1695.	6.1	40
32	Bending and free vibration analyses of functionally graded material nanoplates via a novel nonlocal single variable shear deformation plate theory. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 3641-3653.	2.1	37
33	Hybrid intelligent method for fuzzy reliability analysis of corroded X100 steel pipelines. Engineering With Computers, 2021, 37, 2559-2573.	6.1	31
34	Fuzzy reliability analysis of nanocomposite ZnO beams using hybrid analytical-intelligent method. Engineering With Computers, 2021, 37, 2575-2590.	6.1	19
35	A novel approach to predict shear strength of tilted angle connectors using artificial intelligence techniques. Engineering With Computers, 2021, 37, 2089.	6.1	103
36	Ultra-Wide Spectral Bandwidth and Enhanced Absorption in a Metallic Compound Grating CoveredÂby Graphene Monolayer. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-8.	2.9	6

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37	Nonlinear vibration of full-filled fluid corrugated sandwich functionally graded cylindrical shells. JVC/Journal of Vibration and Control, 2021, 27, 1020-1035.	2.6	11
38	A higher order coupled frequency characteristics study of smart magneto-electro-elastic composite plates with cut-outs using finite element methods. Defence Technology, 2021, 17, 100-118.	4.2	24
39	Optimization of buckling load for laminated composite plates using adaptive Kriging-improved PSO: A novel hybrid intelligent method. Defence Technology, 2021, 17, 85-99.	4.2	27
40	Dynamic stability control of viscoelastic nanocomposite piezoelectric sandwich beams resting on Kerr foundation based on exponential piezoelasticity theory. European Journal of Mechanics, A/Solids, 2021, 86, 104169.	3.7	54
41	Static and free vibration analyses of functionally graded porous variable-thickness plates using an edge-based smoothed finite element method. Defence Technology, 2021, 17, 971-986.	4.2	52
42	Modeling of rock fragmentation by firefly optimization algorithm and boosted generalized additive model. Neural Computing and Applications, 2021, 33, 3503-3519.	5.6	25
43	Nonlinear models based on enhanced Kriging interpolation for prediction of rock joint shear strength. Neural Computing and Applications, 2021, 33, 4205-4215.	5.6	35
44	A two-stage multi-damage detection approach for composite structures using MKECR-Tikhonov regularization iterative method and model updating procedure. Applied Mathematical Modelling, 2021, 90, 114-130.	4.2	22
45	Estimating Ore Production in Open-pit Mines Using Various Machine Learning Algorithms Based on a Truck-Haulage System and Support of Internet of Things. Natural Resources Research, 2021, 30, 1141-1173.	4.7	13
46	Alkali-activated slag (AAS) paste: Correlation between durability and microstructural characteristics. Construction and Building Materials, 2021, 267, 120886.	7.2	77
47	Ensemble machine learning models based on Reduced Error Pruning Tree for prediction of rainfall-induced landslides. International Journal of Digital Earth, 2021, 14, 575-596.	3.9	28
48	A cell-based smoothed finite element formulation for viscoelastic laminated composite plates considering hygrothermal effects. Journal of Composite Materials, 2021, 55, 1967-1978.	2.4	13
49	Reliability-based structural design optimization: hybridized conjugate mean value approach. Engineering With Computers, 2021, 37, 381-394.	6.1	57
50	Optimization of Load-Carrying Hierarchical Stiffened Shells: Comparative Survey and Applications of Six Hybrid Heuristic Models. Archives of Computational Methods in Engineering, 2021, 28, 4153-4166.	10.2	29
51	Potential efficacy and application of a new statistical meta based-model to predict TBM performance. International Journal of Mining, Reclamation and Environment, 2021, 35, 471-487.	2.8	3
52	Multi-objective optimization of multi-directional functionally graded beams using an effective deep feedforward neural network-SMPSO algorithm. Structural and Multidisciplinary Optimization, 2021, 63, 2889-2918.	3.5	24
53	Influence of porosity distribution on nonlinear free vibration and transient responses of porous functionally graded skew plates. Defence Technology, 2021, 17, 1918-1935.	4.2	24
54	A novel approach for classification of soils based on laboratory tests using Adaboost, Tree and ANN modeling. Transportation Geotechnics, 2021, 27, 100508.	4.5	70

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55	Burst capacity and development of interaction rules for pipelines considering radial interacting corrosion defects. Engineering Failure Analysis, 2021, 121, 105124.	4.0	20
56	Advanced intelligence frameworks for predicting maximum pitting corrosion depth in oil and gas pipelines. Chemical Engineering Research and Design, 2021, 147, 818-833.	5.6	91
57	Hybrid regression and machine learning model for predicting ultimate condition of FRP-confined concrete. Composite Structures, 2021, 262, 113644.	5.8	27
58	An Effective Deep Neural Network Method for Prediction of Battery State at Cell and Module Level. Energy Technology, 2021, 9, 2100048.	3.8	5
59	An Efficient Modified AZPRP Conjugate Gradient Method for Large-Scale Unconstrained Optimization Problem. Journal of Mathematics, 2021, 2021, 1-9.	1.0	2
60	Modeling the nonlinear behavior of ACC for SCFST columns using experimental-data and a novel evolutionary-algorithm. Structures, 2021, 30, 692-709.	3.6	25
61	Modeling reference evapotranspiration using a novel regression-based method: radial basis M5 model tree. Theoretical and Applied Climatology, 2021, 145, 639-659.	2.8	26
62	Applying nonlocal strain gradient theory to size-dependent analysis of functionally graded carbon nanotube-reinforced composite nanoplates. Applied Mathematical Modelling, 2021, 93, 775-791.	4.2	35
63	Nonlocal operator method for the Cahn-Hilliard phase field model. Communications in Nonlinear Science and Numerical Simulation, 2021, 96, 105687.	3.3	23
64	Stochastic buckling quantification of laminated composite plates using cell-based smoothed finite elements. Thin-Walled Structures, 2021, 163, 107674.	5.3	24
65	Effect of pumice powder and nano-clay on the strength and permeability of fiber-reinforced pervious concrete incorporating recycled concrete aggregate. Construction and Building Materials, 2021, 287, 122652.	7.2	139
66	Fourier transform approach to nonperiodic boundary value problems in porous conductive media. International Journal for Numerical Methods in Engineering, 2021, 122, 4864-4885.	2.8	8
67	Accurate Structural Reliability Analysis Using an Improved Line-Sampling-Method-Based Slime Mold Algorithm. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2021, 7, .	1.7	20
68	Multi-phase-field modelling of the elastic and buckling behaviour of laminates with ply cracks. Applied Mathematical Modelling, 2021, 94, 68-86.	4.2	11
69	On the modeling of the annual corrosion rate in main cables of suspension bridges using combined soft computing model and a novel nature-inspired algorithm. Neural Computing and Applications, 2021, 33, 15969-15985.	5.6	35
70	Modeling of the tension stiffening behavior and the water permeability change of steel bar reinforcing concrete using mesoscopic and macroscopic hydro-mechanical lattice model. Construction and Building Materials, 2021, 291, 123266.	7.2	4
71	A hybrid Laplaceâ€Galerkin method for thermoâ€hydroâ€mechanical coupling in fluid saturated porous media: Application for borehole problems. International Journal for Numerical and Analytical Methods in Geomechanics, 2021, 45, 2102-2112.	3.3	1
72	An analytical approach to the nonlinear buckling behavior of axially compressed auxetic-core cylindrical shells with carbon nanotube-reinforced coatings. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2021, 235, 2254-2265.	1.1	1

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73	Prediction of gas yield generated by energy recovery from municipal solid waste using deep neural network and moth-flame optimization algorithm. Journal of Cleaner Production, 2021, 311, 127672.	9.3	21
74	Novel efficient method for structural reliability analysis using hybrid nonlinear conjugate map-based support vector regression. Computer Methods in Applied Mechanics and Engineering, 2021, 381, 113818.	6.6	34
75	A nonlocal quasi-3D theory for thermal free vibration analysis of functionally graded material nanoplates resting on elastic foundation. Case Studies in Thermal Engineering, 2021, 26, 101170.	5.7	40
76	A new efficient two-stage method for damage localization and quantification in shell structures. Applied Soft Computing Journal, 2021, 108, 107468.	7.2	7
77	Prediction of the sorption efficiency of heavy metal onto biochar using a robust combination of fuzzy C-means clustering and back-propagation neural network. Journal of Environmental Management, 2021, 293, 112808.	7.8	33
78	Modeling and analysis of bi-directional functionally graded nanobeams based on nonlocal strain gradient theory. Applied Mathematics and Computation, 2021, 407, 126303.	2.2	18
79	Simulation of the ultimate conditions of fibre-reinforced polymer confined concrete using hybrid intelligence models. Engineering Failure Analysis, 2021, 128, 105605.	4.0	17
80	A nonlocal operator method for finite deformation higher-order gradient elasticity. Computer Methods in Applied Mechanics and Engineering, 2021, 384, 113963.	6.6	23
81	Hybrid fitting-numerical method for determining strain-hardening behavior of sheet metals. Mechanics of Materials, 2021, 161, 104031.	3.2	10
82	Characteristics of the flow around four cylinders of various shapes. Ocean Engineering, 2021, 238, 109690.	4.3	13
83	Predicting load capacity of shear walls using SVRâ€“RSM model. Applied Soft Computing Journal, 2021, 112, 107739.	7.2	48
84	Nonlinear buckling and post-buckling of imperfect FG porous sandwich cylindrical panels subjected to axial loading under various boundary conditions. Acta Mechanica, 2021, 232, 1163-1179.	2.1	11
85	Dynamic Stability Analysis in Hybrid Nanocomposite Polymer Beams Reinforced by Carbon Fibers and Carbon Nanotubes. Polymers, 2021, 13, 106.	4.5	7
86	ANFIS for building cooling load estimation. AIP Conference Proceedings, 2021, , .	0.4	0
87	A deep feed-forward neural network for damage detection in functionally graded carbon nanotube-reinforced composite plates using modal kinetic energy. Frontiers of Structural and Civil Engineering, 2021, 15, 1453-1479.	2.9	13
88	Artificial neural network for building energy consumption prediction. AIP Conference Proceedings, 2021, , .	0.4	0
89	Mechanical stability of metal foam cylindrical shells with various porosity distributions. Mechanics of Advanced Materials and Structures, 2020, 27, 295-303.	2.6	34
90	An effective optimization-based parameterized interval analysis approach for static structural response with multiple uncertain parameters. Engineering With Computers, 2020, 36, 1889-1902.	6.1	5

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91	Developed comparative analysis of metaheuristic optimization algorithms for optimal active control of structures. Engineering With Computers, 2020, 36, 1539-1558.	6.1	88
92	Static and Free Vibration Analyses of Functionally Graded Carbon Nanotube Reinforced Composite Plates using CS-DSG3. International Journal of Computational Methods, 2020, 17, 1850133.	1.3	21
93	An Effective Couple Method for Reliability-Based Multi-Objective Optimization of Truss Structures with Static and Dynamic Constraints. International Journal of Computational Methods, 2020, 17, 1950016.	1.3	18
94	Numerical simulation for turbulent flow in a tube with combined swirl flow device considering nanofluid exergy loss. Physica A: Statistical Mechanics and Its Applications, 2020, 542, 122161.	2.6	11
95	Modeling of heat transfer augmentation due to complex-shaped turbulator using nanofluid. Physica A: Statistical Mechanics and Its Applications, 2020, 540, 122465.	2.6	14
96	An artificial neural network-differential evolution approach for optimization of bidirectional functionally graded beams. Composite Structures, 2020, 233, 111517.	5.8	42
97	Solidification inside a clean energy storage unit utilizing phase change material with copper oxide nanoparticles. Journal of Cleaner Production, 2020, 245, 118888.	9.3	141
98	Nanomaterial treatment due to imposing MHD flow considering melting surface heat transfer. Physica A: Statistical Mechanics and Its Applications, 2020, 541, 123036.	2.6	11
99	Numerical study for nanofluid behavior inside a storage finned enclosure involving melting process. Journal of Molecular Liquids, 2020, 297, 111939.	4.9	50
100	Prediction of Blast-Induced Ground Vibration in Open-Pit Mines Using a New Technique Based on Imperialist Competitive Algorithm and M5Rules. Natural Resources Research, 2020, 29, 791-806.	4.7	39
101	Dynamic buckling optimization of laminated aircraft conical shells with hybrid nanocomposite martial. Aerospace Science and Technology, 2020, 98, 105656.	4.8	50
102	Investigation of hybrid nanofluid migration within a porous closed domain. Physica A: Statistical Mechanics and Its Applications, 2020, 551, 123960.	2.6	8
103	Hybrid nanoparticles migration due to MHD free convection considering radiation effect. Physica A: Statistical Mechanics and Its Applications, 2020, 551, 124042.	2.6	3
104	Prediction of Rock Size Distribution in Mine Bench Blasting Using a Novel Ant Colony Optimization-Based Boosted Regression Tree Technique. Natural Resources Research, 2020, 29, 867-886.	4.7	24
105	Influence of active constrained layer damping on the coupled vibration response of functionally graded magneto-electro-elastic plates with skewed edges. Defence Technology, 2020, 16, 1019-1038.	4.2	41
106	Development of neuro-fuzzy and neuro-bee predictive models for prediction of the safety factor of eco-protection slopes. Physica A: Statistical Mechanics and Its Applications, 2020, 550, 124046.	2.6	107
107	Energy storage simulation involving NEPCM solidification in appearance of fins. Physica A: Statistical Mechanics and Its Applications, 2020, 544, 123566.	2.6	14
108	Predicting Blast-Induced Ground Vibration in Open-Pit Mines Using Vibration Sensors and Support Vector Regression-Based Optimization Algorithms. Sensors, 2020, 20, 132.	3.8	62

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109	The role of inter-particle friction on rheology and texture of wet granular flows. European Physical Journal E, 2020, 43, 65.	1.6	5
110	Dynamic Analysis of Functionally Graded Porous Plates Resting on Elastic Foundation Taking into Mass subjected to Moving Loads Using an Edge-Based Smoothed Finite Element Method. Shock and Vibration, 2020, 2020, 1-19.	0.6	18
111	Nonlinear thermomechanical buckling of FG-GRC laminated cylindrical shells stiffened by FG-GRC stiffeners subjected to external pressure. Acta Mechanica, 2020, 231, 5125-5144.	2.1	33
112	Novel hybrid robust method for uncertain reliability analysis using finite conjugate map. Computer Methods in Applied Mechanics and Engineering, 2020, 371, 113309.	6.6	60
113	Reliability Analysis of Stiffened Aircraft Panels Using Adjusting Mean Value Method. AIAA Journal, 2020, 58, 5448-5458.	2.6	13
114	Higher order nonlocal viscoelastic strain gradient theory for dynamic buckling analysis of carbon nanocones. Aerospace Science and Technology, 2020, 107, 106259.	4.8	36
115	Probabilistic investigation on the reliability assessment of mid- and high-strength pipelines under corrosion and fracture conditions. Engineering Failure Analysis, 2020, 118, 104891.	4.0	37
116	Shape and material optimization for buckling behavior of functionally graded toroidal shells. Thin-Walled Structures, 2020, 157, 107129.	5.3	11
117	Optimisation of nanocomposite pipes under internal fluid reinforced by FRP and CNTs under seismic load. International Journal of Hydromechatronics, 2020, 3, 213.	2.3	26
118	Evaluating and Predicting the Stability of Roadways in Tunnelling and Underground Space Using Artificial Neural Network-Based Particle Swarm Optimization. Tunnelling and Underground Space Technology, 2020, 103, 103517.	6.2	51
119	Nonlinear Torsional Buckling of Functionally Graded Carbon Nanotube Orthogonally Reinforced Composite Cylindrical Shells in Thermal Environment. International Journal of Applied Mechanics, 2020, 12, 2050072.	2.2	14
120	An ES-MITC3 Finite Element Method Based on Higher-Order Shear Deformation Theory for Static and Free Vibration Analyses of FG Porous Plates Reinforced by GPLs. Mathematical Problems in Engineering, 2020, 2020, 1-18.	1.1	7
121	A robust homogenization method for ageing and non-ageing viscoelastic behavior of early age and hardened cement pastes. Construction and Building Materials, 2020, 264, 120264.	7.2	8
122	Coupling RBF neural network with ensemble learning techniques for landslide susceptibility mapping. Catena, 2020, 195, 104805.	5.0	90
123	A refreshing view of soft computing models for predicting the deflection of reinforced concrete beams. Applied Soft Computing Journal, 2020, 97, 106831.	7.2	29
124	A Finite Element Formulation and Nonlocal Theory for the Static and Free Vibration Analysis of the Sandwich Functionally Graded Nanoplates Resting on Elastic Foundation. Journal of Nanomaterials, 2020, 2020, 1-20.	2.7	32
125	Predictive Modelling and Surface Analysis for Optimization of Production of Biofuel as A Renewable Energy Resource: Proposition of Artificial Neural Network Search. Mathematical Problems in Engineering, 2020, 2020, 1-13.	1.1	4
126	GIS-based ensemble soft computing models for landslide susceptibility mapping. Advances in Space Research, 2020, 66, 1303-1320.	2.6	30

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127	Uncertain time-dependent reliability analysis of corroded RC structures applying three-term conjugate method. Engineering Failure Analysis, 2020, 115, 104599.	4.0	12
128	Dynamic Analysis of Sandwich Auxetic Honeycomb Plates Subjected to Moving Oscillator Load on Elastic Foundation. Advances in Materials Science and Engineering, 2020, 2020, 1-16.	1.8	44
129	Wave propagation and vibration responses in porous smart nanocomposite sandwich beam resting on Kerr foundation considering structural damping. Thin-Walled Structures, 2020, 154, 106820.	5.3	68
130	Prediction of slope failure in open-pit mines using a novel hybrid artificial intelligence model based on decision tree and evolution algorithm. Scientific Reports, 2020, 10, 9939.	3.3	77
131	An Edge-Based Smoothed Finite Element for Free Vibration Analysis of Functionally Graded Porous (FGP) Plates on Elastic Foundation Taking into Mass (EFTIM). Mathematical Problems in Engineering, 2020, 2020, 1-17.	1.1	18
132	Machine learning approach for solving inconsistency problems of Liâ€ion batteries during the manufacturing stage. International Journal of Energy Research, 2020, 44, 9194-9204.	4.5	5
133	Some analytical solutions for fluid flow in and around a single fracture in a porous formation based on singular integral equation. Engineering Analysis With Boundary Elements, 2020, 118, 32-40.	3.7	1
134	Extreme Learning Machine Based Prediction of Soil Shear Strength: A Sensitivity Analysis Using Monte Carlo Simulations and Feature Backward Elimination. Sustainability, 2020, 12, 2339.	3.2	43
135	Reliability Analysis of FRP-Confined Concrete at Ultimate using Conjugate Search Direction Method. Polymers, 2020, 12, 707.	4.5	15
136	Prediction of maximum pitting corrosion depth in oil and gas pipelines. Engineering Failure Analysis, 2020, 112, 104505.	4.0	74
137	A unified adaptive approach for membrane structures: Form finding and large deflection isogeometric analysis. Computer Methods in Applied Mechanics and Engineering, 2020, 369, 113239.	6.6	18
138	An effective deep feedforward neural networks (DFNN) method for damage identification of truss structures using noisy incomplete modal data. Journal of Building Engineering, 2020, 30, 101244.	3.4	34
139	Deterministic and reliability-based lightweight design of Timoshenko composite beams. Engineering With Computers, 2020, 37, 2329.	6.1	3
140	A FE model updating technique based on SAP2000-OAPI and enhanced SOS algorithm for damage assessment of full-scale structures. Applied Soft Computing Journal, 2020, 89, 106100.	7.2	31
141	A New Analytical Approach for Nonlinear Global Buckling of Spiral Corrugated FG-CNTRC Cylindrical Shells Subjected to Radial Loads. Applied Sciences (Switzerland), 2020, 10, 2600.	2.5	1
142	Nonlinear Buckling Behavior of Spiral Corrugated Sandwich FGM Cylindrical Shells Surrounded by an Elastic Medium. Materials, 2020, 13, 1984.	2.9	7
143	A Novel Hybrid Soft Computing Model Using Random Forest and Particle Swarm Optimization for Estimation of Undrained Shear Strength of Soil. Sustainability, 2020, 12, 2218.	3.2	74
144	Novel probabilistic model for searching most probable point in structural reliability analysis. Computer Methods in Applied Mechanics and Engineering, 2020, 366, 113027.	6.6	84

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145	Evaluating the use of recycled concrete aggregate and pozzolanic additives in fiber-reinforced pervious concrete with industrial and recycled fibers. Construction and Building Materials, 2020, 252, 118997.	7.2	168
146	Dynamic stability response of truncated nanocomposite conical shell with magnetostrictive face sheets utilizing higher order theory of sandwich panels. European Journal of Mechanics, A/Solids, 2020, 82, 104010.	3.7	49
147	A thermo-mechanical meso-scale lattice model to describe the transient thermal strain and to predict the attenuation of thermo-mechanical properties at elevated temperature up to 800ÂÂ°C of concrete. Fire Safety Journal, 2020, 114, 103011.	3.1	11
148	Developing a novel artificial intelligence model to estimate the capital cost of mining projects using deep neural network-based ant colony optimization algorithm. Resources Policy, 2020, 66, 101604.	9.6	58
149	A Comparative Study of Different Machine Learning Algorithms in Predicting the Content of Ilmenite in Titanium Placer. Applied Sciences (Switzerland), 2020, 10, 635.	2.5	21
150	A Type of Novel Nonlinear Distributions for Improving Significantly the Stiffness of Carbon Nanotube-Reinforced Composite Beams. International Journal of Computational Methods, 2020, 17, 1950057.	1.3	2
151	Nonlinear thermo-mechanical buckling of higher-order shear deformable porous functionally graded material plates reinforced by orthogonal and/or oblique stiffeners. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 6177-6196.	2.1	14
152	CVFEM modeling for nanofluid behavior involving non-equilibrium model and Lorentz effect in appearance of radiation. Physica A: Statistical Mechanics and Its Applications, 2019, 534, 122154.	2.6	27
153	Simulation of nanomaterial turbulent modeling in appearance of compound swirl device concerning exergy drop. Physica A: Statistical Mechanics and Its Applications, 2019, 534, 122121.	2.6	7
154	Nanoparticle application for heat transfer and irreversibility analysis in an air conditioning unit. Journal of Molecular Liquids, 2019, 292, 111372.	4.9	7
155	A comprehensive review on analysis of nanocomposites: from manufacturing to properties characterization. Materials Research Express, 2019, 6, 092002.	1.6	24
156	Two-Stage Structural Damage Assessment by Combining Modal Kinetic Energy Change with Symbiotic Organisms Search. International Journal of Structural Stability and Dynamics, 2019, 19, 1950120.	2.4	22
157	Analysis on the heat storage unit through a Y-shaped fin for solidification of NEPCM. Journal of Molecular Liquids, 2019, 292, 111378.	4.9	36
158	A finite elementâ€“based assessment of free vibration behaviour of circular and annular magneto-electro-elastic plates using higher order shear deformation theory. Journal of Intelligent Material Systems and Structures, 2019, 30, 2478-2501.	2.5	30
159	Isogeometric size optimization of bi-directional functionally graded beams under static loads. Composite Structures, 2019, 227, 111259.	5.8	31
160	Investigation of nanofluid conduction heat transfer within a triplex tube considering solidification. Journal of Molecular Liquids, 2019, 290, 111232.	4.9	26
161	Buckling and postbuckling of porous cylindrical shells with functionally graded composite coating under torsion in thermal environment. Thin-Walled Structures, 2019, 144, 106253.	5.3	31
162	Nonlinear buckling and postbuckling of sandwich FGM cylindrical shells reinforced by spiral stiffeners under torsion loads in thermal environment. Acta Mechanica, 2019, 230, 3183-3204.	2.1	24

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163	Nonlinear Thermo-Mechanical Stability Analysis of Eccentrically Spiral Stiffened Sandwich Functionally Graded Cylindrical Shells Subjected to External Pressure. International Journal of Applied Mechanics, 2019, 11, 1950045.	2.2	27
164	Simulation of turbulent flow of nanofluid due to existence of new effective turbulator involving entropy generation. Journal of Molecular Liquids, 2019, 291, 111283.	4.9	78
165	Experimental evaluation of the mechanical and thermal properties of 3D printed PLA and its composites. Materials Research Express, 2019, 6, 115301.	1.6	25
166	Mechanical characterization of the Poly lactic acid (PLA) composites prepared through the Fused Deposition Modelling process. Materials Research Express, 2019, 6, 105359.	1.6	9
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