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	A Smoothed Finite Element Method for Mechanics Problems. Computational Mechanics, 2007, 39, 859-877.	4.0	724
2	An edge-based smoothed finite element method (ES-FEM) for static, free and forced vibration analyses of solids. Journal of Sound and Vibration, 2009, 320, 1100-1130.	3.9	596
3	A node-based smoothed finite element method (NS-FEM) for upper bound solutions to solid mechanics problems. Computers and Structures, 2009, 87, 14-26.	4.4	526
4	A software framework for probabilistic sensitivity analysis for computationally expensive models. Advances in Engineering Software, 2016, 100, 19-31.	3.8	514
5	Theoretical aspects of the smoothed finite element method (SFEM). International Journal for Numerical Methods in Engineering, 2007, 71, 902-930.	2.8	421
6	A faceâ€based smoothed finite element method (FSâ€FEM) for 3D linear and geometrically nonâ€linear solid mechanics problems using 4â€node tetrahedral elements. International Journal for Numerical Methods in Engineering, 2009, 78, 324-353.	2.8	292
7	Static, free vibration, and buckling analysis of laminated composite Reissnerâ€"Mindlin plates using NURBSâ€based isogeometric approach. International Journal for Numerical Methods in Engineering, 2012, 91, 571-603.	2.8	257
8	An n-sided polygonal smoothed finite element method (nSFEM) for solid mechanics. Finite Elements in Analysis and Design, 2007, 43, 847-860.	3.2	248
9	A novel alpha finite element method (α±FEM) for exact solution to mechanics problems using triangular and tetrahedral elements. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 3883-3897.	6.6	193
10	An edge-based smoothed finite element method (ES-FEM) with stabilized discrete shear gap technique for analysis of Reissnerâ€"Mindlin plates. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 471-489.	6.6	187
11	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
12	An adaptive elitist differential evolution for optimization of truss structures with discrete design variables. Computers and Structures, 2016, 165, 59-75.	4.4	150
13	A node-based smoothed finite element method (NS-FEM) for upper bound solution to visco-elastoplastic analyses of solids using triangular and tetrahedral meshes. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 3005-3027.	6.6	147
14	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
15	Analysis of functionally graded plates using an edge-based smoothed finite element method. Composite Structures, 2011, 93, 3019-3039.	5.8	142
16	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
17	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
18	Isogeometric finite element analysis of composite sandwich plates using a higher order shear deformation theory. Composites Part B: Engineering, 2013, 55, 558-574.	12.0	136

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19	A non-ordinary state-based peridynamics formulation for thermoplastic fracture. International Journal of Impact Engineering, 2016, 87, 83-94.	5.0	133
20	A face-based smoothed finite element method (FS-FEM) for visco-elastoplastic analyses of 3D solids using tetrahedral mesh. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 3479-3498.	6.6	132
21	Analysis of laminated composite plates using higher-order shear deformation plate theory and node-based smoothed discrete shear gap method. Applied Mathematical Modelling, 2012, 36, 5657-5677.	4.2	132
22	A node-based smoothed finite element method with stabilized discrete shear gap technique for analysis of Reissner–Mindlin plates. Computational Mechanics, 2010, 46, 679-701.	4.0	128
23	An edge–based smoothed finite element method for primal–dual shakedown analysis of structures. International Journal for Numerical Methods in Engineering, 2010, 82, 917-938.	2.8	128
24	A theoretical study on the smoothed FEM (S–FEM) models: Properties, accuracy and convergence rates. International Journal for Numerical Methods in Engineering, 2010, 84, 1222-1256.	2.8	127
25	Analysis of functionally graded plates by an efficient finite element method with node-based strain smoothing. Thin-Walled Structures, 2012, 54, 1-18.	5.3	121
26	An edge-based smoothed finite element method for analysis of two-dimensional piezoelectric structures. Smart Materials and Structures, 2009, 18, 065015.	3.5	114
27	Static and free vibration analyses and dynamic control of composite plates integrated with piezoelectric sensors and actuators by the cell-based smoothed discrete shear gap method (CS-FEM-DSG3). Smart Materials and Structures, 2013, 22, 095026.	3.5	108
28	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
29	A cell–based smoothed discrete shear gap method using triangular elements for static and free vibration analyses of Reissner–Mindlin plates. International Journal for Numerical Methods in Engineering, 2012, 91, 705-741.	2.8	106
30	An edge-based smoothed finite element method for visco-elastoplastic analyses of 2D solids using triangular mesh. Computational Mechanics, 2009, 45, 23-44.	4.0	104
31	A novel approach to predict shear strength of tilted angle connectors using artificial intelligence techniques. Engineering With Computers, 2021, 37, 2089.	6.1	103
32	Multi-objective optimization of laminated composite beam structures using NSGA-II algorithm. Composite Structures, 2017, 168, 498-509.	5.8	102
33	A two-step approach for damage detection in laminated composite structures using modal strain energy method and an improved differential evolution algorithm. Composite Structures, 2016, 147, 42-53.	5.8	97
34	An improved differential evolution based on roulette wheel selection for shape and size optimization of truss structures with frequency constraints. Neural Computing and Applications, 2018, 29, 167-185.	5.6	97
35	Static response and free vibration of functionally graded carbon nanotube-reinforced composite rectangular plates resting on Winkler–Pasternak elastic foundations. Aerospace Science and Technology, 2017, 68, 391-402.	4.8	96
36	Computation of limit and shakedown loads using a node–based smoothed finite element method. International Journal for Numerical Methods in Engineering, 2012, 90, 287-310.	2.8	95

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37	A novel singular node–based smoothed finite element method (NS–FEM) for upper bound solutions of fracture problems. International Journal for Numerical Methods in Engineering, 2010, 83, 1466-1497.	2.8	94
38	Efficiency of Jaya algorithm for solving the optimization-based structural damage identification problem based on a hybrid objective function. Engineering Optimization, 2018, 50, 1233-1251.	2.6	94
39	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
40	Uncertainty quantification of the fracture properties of polymeric nanocomposites based on phase field modeling. Composite Structures, 2015, 133, 1177-1190.	5.8	90
41	Coupling RBF neural network with ensemble learning techniques for landslide susceptibility mapping. Catena, 2020, 195, 104805.	5.0	90
42	Predicting the fracture toughness of PNCs: A stochastic approach based on ANN and ANFIS. Computational Materials Science, 2015, 102, 304-313.	3.0	88
43	Developed comparative analysis of metaheuristic optimization algorithms for optimal active control of structures. Engineering With Computers, 2020, 36, 1539-1558.	6.1	88
44	A cell-based smoothed discrete shear gap method (CS-DSG3) using triangular elements for static and free vibration analyses of shell structures. International Journal of Mechanical Sciences, 2013, 74, 32-45.	6.7	87
45	ADDITIONAL PROPERTIES OF THE NODE-BASED SMOOTHED FINITE ELEMENT METHOD (NS-FEM) FOR SOLID MECHANICS PROBLEMS. International Journal of Computational Methods, 2009, 06, 633-666.	1.3	86
46	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
47	Selective smoothed finite element method. Tsinghua Science and Technology, 2007, 12, 497-508.	6.1	81
48	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
49	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
50	Alkali-activated slag (AAS) paste: Correlation between durability and microstructural characteristics. Construction and Building Materials, 2021, 267, 120886.	7.2	77
51	THE UPPER BOUND PROPERTY FOR SOLID MECHANICS OF THE LINEARLY CONFORMING RADIAL POINT INTERPOLATION METHOD (LC-RPIM). International Journal of Computational Methods, 2007, 04, 521-541.	1.3	76
52	Static, free vibration and buckling analyses of stiffened plates by CS-FEM-DSG3 using triangular elements. Computers and Structures, 2013, 125, 100-113.	4.4	76
53	An improved constrained differential evolution using discrete variables (D-ICDE) for layout optimization of truss structures. Expert Systems With Applications, 2015, 42, 7057-7069.	7.6	76
54	Elastic buckling and free vibration analyses of porous-cellular plates with uniform and non-uniform porosity distributions. Aerospace Science and Technology, 2018, 79, 278-287.	4.8	76

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55	Prediction of maximum pitting corrosion depth in oil and gas pipelines. Engineering Failure Analysis, 2020, 112, 104505.	4.0	74
56	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
57	Adaptive analysis using the node-based smoothed finite element method (NS-FEM). International Journal for Numerical Methods in Biomedical Engineering, 2011, 27, 198-218.	2.1	72
58	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
59	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
60	An edge-based smoothed point interpolation method (ES-PIM) for heat transfer analysis of rapid manufacturing system. International Journal of Heat and Mass Transfer, 2010, 53, 1938-1950.	4.8	65
61	A cell-based smoothed discrete shear gap method (CS-DSG3) based on the C0-type higher-order shear deformation theory for static and free vibration analyses of functionally graded plates. Computational Materials Science, 2013, 79, 857-872.	3.0	62
62	AN EDGE-BASED SMOOTHED FINITE ELEMENT METHOD FOR ANALYSIS OF LAMINATED COMPOSITE PLATES. International Journal of Computational Methods, 2013, 10, 1340005.	1.3	62
63	Geometrically nonlinear analysis of functionally graded plates using a cell-based smoothed three-node plate element (CS-MIN3) based on the C0-HSDT. Computer Methods in Applied Mechanics and Engineering, 2014, 270, 15-36.	6.6	62
64	Static and frequency optimization of folded laminated composite plates using an adjusted Differential Evolution algorithm and a smoothed triangular plate element. Composite Structures, 2015, 127, 382-394.	5.8	62
65	Optimal design of truss structures with frequency constraints using improved differential evolution algorithm based on an adaptive mutation scheme. Automation in Construction, 2016, 68, 81-94.	9.8	62
66	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
67	On the essence and the evaluation of the shape functions for the smoothed finite element method (SFEM). International Journal for Numerical Methods in Engineering, 2009, 77, 1863-1869.	2.8	60
68	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
69	Free vibration analysis of cracked Mindlin plate using an extended cell-based smoothed discrete shear gap method (XCS-DSG3). Theoretical and Applied Fracture Mechanics, 2014, 72, 150-163.	4.7	59
70	Optimization of laminated composite plates for maximizing buckling load using improved differential evolution and smoothed finite element method. Composite Structures, 2016, 146, 132-147.	5.8	59
71	Ensemble modeling of landslide susceptibility using random subspace learner and different decision tree classifiers. Geocarto International, 2022, 37, 735-757.	3.5	59
72	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

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73	A novel FEM by scaling the gradient of strains with factor Î± (Î±FEM). Computational Mechanics, 2009, 43, 369-391.	4.0	57
74	Reliability-based structural design optimization: hybridized conjugate mean value approach. Engineering With Computers, 2021, 37, 381-394.	6.1	57
75	A stabilized smoothed finite element method for free vibration analysis of Mindlinâ€"Reissner plates. Communications in Numerical Methods in Engineering, 2009, 25, 882-906.	1.3	56
76	A cell-based smoothed three-node Mindlin plate element (CS-MIN3) for static and free vibration analyses of plates. Computational Mechanics, 2013, 51, 65-81.	4.0	56
77	An efficient approach for optimal sensor placement and damage identification in laminated composite structures. Advances in Engineering Software, 2018, 119, 48-59.	3.8	56
78	An efficient multi-stage optimization approach for damage detection in plate structures. Advances in Engineering Software, 2017, 112, 76-87.	3.8	54
79	Influence of interphase on the multi-physics coupled frequency of three-phase smart magneto-electro-elastic composite plates. Composite Structures, 2019, 226, 111254.	5.8	54
80	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
81	FREE AND FORCED VIBRATION ANALYSIS USING THE n-SIDED POLYGONAL CELL-BASED SMOOTHED FINITE ELEMENT METHOD (nCS-FEM). International Journal of Computational Methods, 2013, 10, 1340008.	1.3	53
82	A global numerical approach for lightweight design optimization of laminated composite plates subjected to frequency constraints. Composite Structures, 2017, 159, 646-655.	5.8	53
83	A cell-based smoothed discrete shear gap method (CS-FEM-DSG3) using layerwise deformation theory for dynamic response of composite plates resting on viscoelastic foundation. Computer Methods in Applied Mechanics and Engineering, 2014, 272, 138-159.	6.6	52
84	An isogeometric approach for dynamic response of laminated FG-CNT reinforced composite plates integrated with piezoelectric layers. Computer Methods in Applied Mechanics and Engineering, 2018, 332, 25-46.	6.6	52
85	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
86	An effective reliability-based improved constrained differential evolution for reliability-based design optimization of truss structures. Advances in Engineering Software, 2016, 92, 48-56.	3.8	51
87	Free vibration analysis of laminated FG-CNT reinforced composite beams using finite element method. Frontiers of Structural and Civil Engineering, 2019, 13, 324-336.	2.9	51
88	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
89	A novel Galerkin-like weakform and a superconvergent alpha finite element method (SÎ±FEM) for mechanics problems using triangular meshes. Journal of Computational Physics, 2009, 228, 4055-4087.	3.8	50
90	Static and free vibration analyses of composite and sandwich plates by an edge-based smoothed discrete shear gap method (ES-DSG3) using triangular elements based on layerwise theory. Composites Part B: Engineering, 2014, 60, 227-238.	12.0	50

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91	Numerical study for nanofluid behavior inside a storage finned enclosure involving melting process. Journal of Molecular Liquids, 2020, 297, 111939.	4.9	50
92	Dynamic buckling optimization of laminated aircraft conical shells with hybrid nanocomposite martial. Aerospace Science and Technology, 2020, 98, 105656.	4.8	50
93	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
94	Damage assessment in plate-like structures using a two-stage method based on modal strain energy change and Jaya algorithm. Inverse Problems in Science and Engineering, 2019, 27, 166-189.	1.2	48
95	Predicting load capacity of shear walls using SVR–RSM model. Applied Soft Computing Journal, 2021, 112, 107739.	7.2	48
96	A cell-based smoothed finite element method using three-node shear-locking free Mindlin plate element (CS-FEM-MIN3) for dynamic response of laminated composite plates on viscoelastic foundation. Engineering Analysis With Boundary Elements, 2014, 42, 8-19.	3.7	47
97	A cell-based smoothed discrete shear gap method (CS-FEM-DSG3) using layerwise theory based on the C0-HSDT for analyses of composite plates. Composite Structures, 2014, 111, 553-565.	5.8	46
98	A cell-based smoothed discrete shear gap method (CS-FEM-DSG3) based on the C^0-type higher-order shear deformation theory for dynamic responses of Mindlin plates on viscoelastic foundations subjected to a moving sprung vehicle. International Journal for Numerical Methods in Engineering, 2014, 98, 988-1014.	2.8	45
99	Geometric effects on mixing performance in a novel passive micromixer with trapezoidal-zigzag channels. Journal of Micromechanics and Microengineering, 2015, 25, 094004.	2.6	45
100	Analysis and control of FGM plates integrated with piezoelectric sensors and actuators using cell-based smoothed discrete shear gap method (CS-DSG3). Composite Structures, 2017, 165, 115-129.	5.8	45
101	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
102	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
103	An artificial neural network-differential evolution approach for optimization of bidirectional functionally graded beams. Composite Structures, 2020, 233, 111517.	5.8	42
104	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
105	An edge-based smoothed three-node mindlin plate element (ES-MIN3) for static and free vibration analyses of plates. KSCE Journal of Civil Engineering, 2014, 18, 1072-1082.	1.9	40
106	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
107	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
108	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

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109	An *n*-sided polygonal edge-based smoothed finite element method (*n*ES-FEM) for solid mechanics. International Journal for Numerical Methods in Biomedical Engineering, 2011, 27, 1446-1472.	2.1	39
110	AN APPLICATION OF THE ES-FEM IN SOLID DOMAIN FOR DYNAMIC ANALYSIS OF 2D FLUID–SOLID INTERACTION PROBLEMS. International Journal of Computational Methods, 2013, 10, 1340003.	1.3	39
111	A cell-based smoothed three-node Mindlin plate element (CS-FEM-MIN3) based on the C0-type higher-order shear deformation for geometrically nonlinear analysis of laminated composite plates. Computational Materials Science, 2015, 96, 549-558.	3.0	39
112	Damage assessment in truss structures with limited sensors using a two-stage method and model reduction. Applied Soft Computing Journal, 2018, 66, 264-277.	7.2	39
113	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
114	SVR-RSM: a hybrid heuristic method for modeling monthly pan evaporation. Environmental Science and Pollution Research, 2019, 26, 35807-35826.	5.3	38
115	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
116	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
117	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
118	Reliability analysis of corroded pipelines: Novel adaptive conjugate first order reliability method. Journal of Loss Prevention in the Process Industries, 2019, 62, 103986.	3.3	36
119	Higher order nonlocal viscoelastic strain gradient theory for dynamic buckling analysis of carbon nanocones. Aerospace Science and Technology, 2020, 107, 106259.	4.8	36
120	A variationally consistent αFEM (VCαFEM) for solution bounds and nearly exact solution to solid mechanics problems using quadrilateral elements. International Journal for Numerical Methods in Engineering, 2011, 85, 461-497.	2.8	35
121	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
122	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
123	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
124	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
125	An efficient combination of multi-objective evolutionary optimization and reliability analysis for reliability-based design optimization of truss structures. Expert Systems With Applications, 2018, 102, 262-272.	7.6	34
126	Mechanical stability of metal foam cylindrical shells with various porosity distributions. Mechanics of Advanced Materials and Structures, 2020, 27, 295-303.	2.6	34

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127	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
128	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
129	UML diagrams for dynamical monitoring of rail vehicles. Physica A: Statistical Mechanics and Its Applications, 2019, 531, 121169.	2.6	33
130	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
131	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
132	Static and free vibration analyses of stiffened folded plates using a cell-based smoothed discrete shear gap method (CS-FEM-DSG3). Applied Mathematics and Computation, 2015, 266, 212-234.	2.2	32
133	Damage Detection in Laminated Composite Plates Using Modal Strain Energy and Improved Differential Evolution Algorithm. Procedia Engineering, 2016, 142, 182-189.	1.2	32
134	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
135	Assessment of smoothed point interpolation methods for elastic mechanics. International Journal for Numerical Methods in Biomedical Engineering, 2010, 26, 1635-1655.	2.1	31
136	COMPUTATION OF LIMIT LOAD USING EDGE-BASED SMOOTHED FINITE ELEMENT METHOD AND SECOND-ORDER CONE PROGRAMMING. International Journal of Computational Methods, 2013, 10, 1340004.	1.3	31
137	Isogeometric size optimization of bi-directional functionally graded beams under static loads. Composite Structures, 2019, 227, 111259.	5.8	31
138	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
139	Structural damage assessment with incomplete and noisy modal data using model reduction technique and LAPO algorithm. Structure and Infrastructure Engineering, 2019, 15, 1436-1449.	3.7	31
140	Hybrid intelligent method for fuzzy reliability analysis of corroded X100 steel pipelines. Engineering With Computers, 2021, 37, 2559-2573.	6.1	31
141	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
142	A finite element–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
143	Closed-form solution for nonlinear buckling analysis of FG-CNTRC cylindrical shells with initial geometric imperfections. European Journal of Mechanics, A/Solids, 2019, 73, 483-491.	3.7	30
144	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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145	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
146	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
147	A superconvergent point interpolation method (SC€PIM) with piecewise linear strain field using triangular mesh. International Journal for Numerical Methods in Engineering, 2009, 77, 1439-1467.	2.8	29
148	Second Law Analysis of Unsteady MHD Viscous Flow over a Horizontal Stretching Sheet Heated Non-Uniformly in the Presence of Ohmic Heating: Utilization of Gear-Generalized Differential Quadrature Method. Entropy, 2019, 21, 240.	2.2	29
149	Toward a State-of-the-Art of Fly-Rock Prediction Technology in Open-Pit Mines Using EANNs Model. Applied Sciences (Switzerland), 2019, 9, 4554.	2.5	29
150	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
151	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
152	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
153	Closed-form expression for nonlinear analysis of imperfect sigmoid-FGM plates with variable thickness resting on elastic medium. Composite Structures, 2016, 143, 143-150.	5.8	28
154	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
155	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
156	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
157	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
158	A Novel Artificial Intelligence Technique to Estimate the Gross Calorific Value of Coal Based on Meta-Heuristic and Support Vector Regression Algorithms. Applied Sciences (Switzerland), 2019, 9, 4868.	2.5	27
159	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
160	Hybrid regression and machine learning model for predicting ultimate condition of FRP-confined concrete. Composite Structures, 2021, 262, 113644.	5.8	27
161	Isogeometric analysis for free vibration of bidirectional functionally graded plates in the fluid medium. Defence Technology, 2022, 18, 1311-1329.	4.2	27
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