Mohammad Rezaiee-Pajand

List of Publications by Year
in descending order

153 papers	1,996 citations	304602 22 h-index	434063 31 g-index
153 all docs	153 docs citations	153 times ranked	843 citing authors

#	Article	IF	Citations
1	On the damping influence on the dynamic analysis of functionally graded beams resting on elastic foundation by Greenâ€™s function method. Mechanics Based Design of Structures and Machines, 2023, 51, 1666-1683.	3.4	6
2	Geometric and Material Nonlinear Analyses of Trusses Subjected to Thermomechanical Loads. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2023, 33, 302-313.	0.5	1
3	Reanalysis of 2D and 3D truss structures considering simultaneous variations in topology, geometry and size. Engineering With Computers, 2022, 38, 2341-2359.	3.5	4
4	Hygro-thermo-elastic nonlinear analysis of functionally graded porous composite thin and moderately thick shallow panels. Mechanics of Advanced Materials and Structures, 2022, 29, 594-612.	1.5	25
5	Improved shell element for geometrically non-linear analysis of thin-walled structures. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2022, 175, 347-356.	0.4	5
6	A precise splice-length model for reinforced concrete structures. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2022, 175, 373-386.	0.4	4
7	An evaluation of MITC and ANS elements in the nonlinear analysis of shell structures. Mechanics of Advanced Materials and Structures, 2022, 29, 4677-4697.	1.5	3
8	Free vibration of a nanogrid based on Eringenâ€™s stress gradient model. Mechanics Based Design of Structures and Machines, 2022, 50, 537-555.	3.4	7
9	A novel assumed-strain finite element for detecting the elastic behavior of wall-like structures. Mechanics of Advanced Materials and Structures, 2022, 29, 6664-6684.	1.5	2
10	Lateral-Torsional Buckling of a Bidirectional Exponentially Graded Thin-Walled C-Shaped Beam. Mechanics of Composite Materials, 2022, 58, 53-68.	0.9	4
11	Stress-driven nonlinear behavior of curved nanobeams. International Journal of Engineering Science, 2022, 178, 103724.	2.7	14
12	A robust updated normal plane scheme for geometric non-linear structural analysis. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2021, , 1-15.	0.4	1
13	Crack Spacing Prediction of Fibre-Reinforced Concrete Beams with Lap-Spliced Bars by Machine Learning Models. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2021, 45, 833-850.	1.0	10
14	A hybrid sensitivity function and Lanczos bidiagonalization-Tikhonov method for structural model updating: Application to a full-scale bridge structure. Applied Mathematical Modelling, 2021, 89, 860-884.	2.2	27
15	Semi-analytical vibrational analysis of functionally graded carbon nanotubes coupled conical-conical shells. Thin-Walled Structures, 2021, 159, 107272.	2.7	38
16	Exact solution for thermalâ€“mechanical post-buckling of functionally graded micro-beams. CEAS Aeronautical Journal, 2021, 12, 85-100.	0.9	5
17	Study on the seismic behaviour of steel shear plates. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2021, , 1-18.	0.4	1
18	Static and dynamic analysis of FG plates using a locking free 3D plate bending element. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	0.8	3

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19	Nonlinear analysis of cable structures using the dynamic relaxation method. Frontiers of Structural and Civil Engineering, 2021, 15, 253-274.	1.2	6
20	A Literature Review on Dynamic Analysis of Concrete Gravity and Arch Dams. Archives of Computational Methods in Engineering, 2021, 28, 4357-4372.	6.0	7
21	A Force-Based Rectangular Cracked Element. International Journal of Applied Mechanics, 2021, 13, 2150047.	1.3	3
22	Propose new implement models to determine the compressive, tensile and flexural strengths of recycled coarse aggregate concrete via imperialist competitive algorithm. Journal of Building Engineering, 2021, 40, 102337.	1.6	14
23	Nonlinear Deformation and Numerical Post-Buckling Analysis of Plate Structures Using the Assumed Natural Strain Concept. International Journal of Applied Mechanics, 2021, 13, .	1.3	4
24	Three stress-based triangular elements. Engineering With Computers, 2020, 36, 1325-1345.	3.5	10
25	Force-based curved beam elements with open radial edge cracks. Mechanics of Advanced Materials and Structures, 2020, 27, 128-140.	1.5	9
26	A family of cylindrical elements. Mathematics and Computers in Simulation, 2020, 168, 155-172.	2.4	3
27	Finding buckling points for nonlinear structures by dynamic relaxation scheme. Frontiers of Structural and Civil Engineering, 2020, 14, 23-61.	1.2	2
28	Size dependent buckling analysis of nano sandwich beams by two schemes. Mechanics of Advanced Materials and Structures, 2020, 27, 975-990.	1.5	11
29	Analytical Scheme for Solid Stress Analysis. International Journal of Applied Mechanics, 2020, 12, 2050071.	1.3	4
30	Higher-order assumed strain plane element immune to mesh distortion. Engineering Computations, 2020, 37, 2957-2981.	0.7	12
31	Exact post-buckling analysis of planar and space trusses. Engineering Structures, 2020, 223, 111146.	2.6	5
32	Using Higher-Order Strain Interpolation Function to Improve the Accuracy of Structural Responses. International Journal of Applied Mechanics, 2020, 12, 2050026.	1.3	11
33	Free vibration analysis of functionally graded hybrid matrix/fiber nanocomposite conical shells using multiscale method. Aerospace Science and Technology, 2020, 105, 105998.	2.5	63
34	Strain-based plane element for fracture mechanicsâ€™ problems. Theoretical and Applied Fracture Mechanics, 2020, 108, 102569.	2.1	13
35	A sensitivityâ€based finite element model updating based on unconstrained optimization problem and regularized solution methods. Structural Control and Health Monitoring, 2020, 27, e2481.	1.9	26
36	An efficient curved beam element for thermo-mechanical nonlinear analysis of functionally graded porous beams. Structures, 2020, 28, 1035-1049.	1.7	23

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37	Stability Analysis of Frame Having FG Tapered Beamâ€“Column. International Journal of Steel Structures, 2019, 19, 446-468.	0.6	20
38	A fast and accurate dynamic relaxation scheme. Frontiers of Structural and Civil Engineering, 2019, 13, 176-189.	1.2	6
39	Finite Element Analysis of Orthotropic Thin Plates Using Analytical Solution. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2019, 43, 125-135.	1.0	2
40	Linear and geometrically nonlinear analysis of plane structures by using a new locking free triangular element. Engineering Structures, 2019, 196, 109312.	2.6	4
41	A novel meshless particle method for nonlocal analysis of two-directional functionally graded nanobeams. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	10
42	A formula for calculating fundamental natural frequency of partially-filled tanks. Ocean Engineering, 2019, 191, 106400.	1.9	4
43	Shell instability analysis by using mixed interpolation. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	22
44	Geometrical nonlinear analysis of structures using residual variables. Mechanics Based Design of Structures and Machines, 2019, 47, 215-233.	3.4	5
45	Two Triangular Membrane Elements Based on Strain. International Journal of Applied Mechanics, 2019, 11, 1950010.	1.3	14
46	Vibration and static analysis of cracked and non-cracked non-prismatic frames by force formulation. Engineering Structures, 2019, 185, 106-121.	2.6	13
47	An efficient mixed interpolated curved beam element for geometrically nonlinear analysis. Applied Mathematical Modelling, 2019, 76, 252-273.	2.2	14
48	An Efficient Eigen-Solver and Some of Its Applications. International Journal for Computational Methods in Engineering Science and Mechanics, 2019, 20, 130-152.	1.4	2
49	Application of Hencky bar-chain model to buckling analysis of elastically restrained Timoshenko axially functionally graded carbon nanotube reinforced composite beams. Mechanics Based Design of Structures and Machines, 2019, 47, 599-620.	3.4	20
50	Analyzing free vibration of a double-beam joined by a three-degree-of-freedom system. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	3
51	Nonlinear analysis of FG-sandwich plates and shells. Aerospace Science and Technology, 2019, 87, 178-189.	2.5	51
52	Analyzing FG shells with large deformations and finite rotations. World Journal of Engineering, 2019, 16, 636-647.	1.0	26
53	Creating better dynamic relaxation methods. Engineering Computations, 2019, 36, 1483-1521.	0.7	1
54	Buckling and post-buckling of arbitrary shells under thermo-mechanical loading. Meccanica, 2019, 54, 205-221.	1.2	4

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55	Thermo-mechanical stability analysis of functionally graded shells. Engineering Structures, 2019, 178, 1-11.	2.6	5
56	Tapered beamâ€“column analysis by analytical solution. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2019, 172, 789-804.	0.4	9
57	Analyzing Free-Free Beams by Green's Functions and Fredholm Alternative Theorem. Journal of Mechanics, 2019, 35, 27-39.	0.7	2
58	Using co-rotational method for cracked frame analysis. Meccanica, 2018, 53, 2121-2143.	1.2	6
59	Three-dimensional deformations of a curved circular beam subjected to thermo-mechanical loading using green's function method. International Journal of Mechanical Sciences, 2018, 142-143, 163-175.	3.6	17
60	An incremental iterative solution procedure without predictor step. European Journal of Computational Mechanics, 2018, 27, 58-87.	0.6	6
61	Application of Green's function method to bending of stress gradient nanobeams. International Journal of Solids and Structures, 2018, 143, 209-217.	1.3	5
62	Exact natural frequencies and buckling load of functionally graded material tapered beam-columns considering semi-rigid connections. JVC/Journal of Vibration and Control, 2018, 24, 1787-1808.	1.5	41
63	Nonlocal static analysis of a functionally graded material curved nanobeam. Mechanics of Advanced Materials and Structures, 2018, 25, 539-547.	1.5	24
64	Comparative analysis of three-dimensional frames by dynamic relaxation methods. Mechanics of Advanced Materials and Structures, 2018, 25, 451-466.	1.5	6
65	An efficient flat shell element. Meccanica, 2018, 53, 1015-1035.	1.2	4
66	A family of second-order fully explicit time integration schemes. Computational and Applied Mathematics, 2018, 37, 3431-3454.	1.3	17
67	A triangular shell element for geometrically nonlinear analysis. Acta Mechanica, 2018, 229, 323-342.	1.1	27
68	Geometrical nonlinear analysis based on optimization technique. Applied Mathematical Modelling, 2018, 53, 32-48.	2.2	12
69	Solving coupled beam-fluid interaction by DTM. Ocean Engineering, 2018, 167, 380-396.	1.9	6
70	Stability and free vibration analysis of tapered sandwich columns with functionally graded core and flexible connections. CEAS Aeronautical Journal, 2018, 9, 629-648.	0.9	19
71	On the shell thickness-stretching effects using seven-parameter triangular element. European Journal of Computational Mechanics, 2018, 27, 163-185.	0.6	19
72	Application of Differential Transform Method to Free Vibration of Gabled Frames with Rotational Springs. International Journal of Structural Stability and Dynamics, 2017, 17, 1750012.	1.5	10

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73	A cracked element based on the compliance concept. Theoretical and Applied Fracture Mechanics, 2017, 92, 122-132.	2.1	6
74	Modified differential transformation method for solving nonlinear dynamic problems. Applied Mathematical Modelling, 2017, 47, 76-95.	2.2	9
75	An accurate predictor-corrector time integration method for structural dynamics. International Journal of Steel Structures, 2017, 17, 1033-1047.	0.6	12
76	A novel time integration formulation for nonlinear dynamic analysis. Aerospace Science and Technology, 2017, 69, 625-635.	2.5	25
77	Geometrically nonlinear analysis of shells by various dynamic relaxation methods. World Journal of Engineering, 2017, 14, 381-405.	1.0	7
78	Frame nonlinear analysis by force method. International Journal of Steel Structures, 2017, 17, 609-629.	0.6	13
79	A quadrilateral plate bending element based on deformation modes. Applied Mathematical Modelling, 2017, 41, 618-629.	2.2	2
80	Controlling structures by inverse adaptive neuro fuzzy inference system and MR dampers. Journal of Numerical Methods in Civil Engineering, 2017, 2, 24-36.	0.3	0
81	Free vibration analysis of a double-beam system joined by a mass-spring device. JVC/Journal of Vibration and Control, 2016, 22, 3004-3017.	1.5	15
82	An Explicit Stiffness Matrix for Parabolic Beam Element. Latin American Journal of Solids and Structures, 2016, 13, 1782-1801.	0.6	12
83	A Comparison of Large Deflection Analysis of Bending Plates by Dynamic Relaxation. Periodica Polytechnica: Civil Engineering, 2016, 60, 619-645.	0.6	5
84	Geometrical Nonlinear Analysis of Plane Problems by Corotational Formulation. Journal of Engineering Mechanics - ASCE, 2016, 142, .	1.6	7
85	Analytical solution for free vibration of flexible 2D rectangular tanks. Ocean Engineering, 2016, 122, 118-135.	1.9	8
86	Analytical and numerical method for free vibration of double-axially functionally graded beams. Composite Structures, 2016, 152, 488-498.	3.1	41
87	Finding equilibrium paths by minimizing external work in dynamic relaxation method. Applied Mathematical Modelling, 2016, 40, 10300-10322.	2.2	14
88	A curved triangular element for nonlinear analysis of laminated shells. Composite Structures, 2016, 153, 538-548.	3.1	11
89	Stability of non-prismatic frames with flexible connections and elastic supports. KSCE Journal of Civil Engineering, 2016, 20, 832-846.	0.9	8
90	Hybrid-Trefftz formulation for analysis of thick orthotropic plates. Aerospace Science and Technology, 2016, 50, 234-244.	2.5	13

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91	Computing the structural buckling limit load by using dynamic relaxation method. International Journal of Non-Linear Mechanics, 2016, 81, 245-260.	1.4	15
92	Mixing dynamic relaxation method with load factor and displacement increments. Computers and Structures, 2016, 168, 78-91.	2.4	20
93	Time Integration Method Based on Discrete Transfer Function. International Journal of Structural Stability and Dynamics, 2016, 16, 1550009.	1.5	23
94	A New Explicit Time Integration Scheme for Nonlinear Dynamic Analysis. International Journal of Structural Stability and Dynamics, 2016, 16, 1550054.	1.5	18
95	Stress Analysis of Free-Edge Laminated Composite Plates by Two Bending Elements. International Journal of Computational Methods, 2016, 13, 1650008.	0.8	0
96	Static and dynamic analysis of circular beams using explicit stiffness matrix. Structural Engineering and Mechanics, 2016, 60, 111-130.	1.0	5
97	Exponential-based integration for Bigoniâ€“Piccolroaz plasticity model. European Journal of Mechanics, A/Solids, 2015, 51, 107-122.	2.1	10
98	Analysis of 3D Timoshenko frames having geometrical and material nonlinearities. International Journal of Mechanical Sciences, 2015, 94-95, 140-155.	3.6	17
99	Using residual areas for geometrically nonlinear structural analysis. Ocean Engineering, 2015, 105, 327-335.	1.9	13
100	Crack detection in concrete gravity dams using a genetic algorithm. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2015, 168, 192-209.	0.4	13
101	A Novel Hexahedral Interface Element for Nonlinear Crack Analysis. Mechanics of Advanced Materials and Structures, 2015, 22, 192-204.	1.5	1
102	More accurate and stable time integration scheme. Engineering With Computers, 2015, 31, 791-812.	3.5	27
103	Hybrid stress and analytical functions for analysis of thin plates bending. Latin American Journal of Solids and Structures, 2014, 11, 556-579.	0.6	4
104	An efficient formulation for linear and geometric non-linear membrane elements. Latin American Journal of Solids and Structures, 2014, 11, 1012-1035.	0.6	13
105	A robust triangular membrane element. Latin American Journal of Solids and Structures, 2014, 11, 2648-2671.	0.6	7
106	OPTIMAL NODE LOCATION IN TRIANGULAR PLATE BENDING ELEMENTS. International Journal of Computational Methods, 2014, 11, 1350075.	0.8	2
107	Angles based integration for generalized non-linear plasticity model. International Journal of Mechanical Sciences, 2014, 87, 241-257.	3.6	13
108	Static Damage Identification of 3D and 2D Frames. Mechanics Based Design of Structures and Machines, 2014, 42, 70-96.	3.4	19

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109	Two higher order hybrid-Trefftz elements for thin plate bending analysis. Finite Elements in Analysis and Design, 2014, 85, 73-86.	1.7	18
110	Computational plasticity of mixed hardening pressure-dependency constitutive equations. Acta Mechanica, 2014, 225, 1699-1733.	1.1	11
111	Fictitious Time Step for the Kinetic Dynamic Relaxation Method. Mechanics of Advanced Materials and Structures, 2014, 21, 631-644.	1.5	16
112	Stability boundaries of two-parameter non-linear elastic structures. International Journal of Solids and Structures, 2014, 51, 1089-1102.	1.3	6
113	Delamination detection in buckling laminated composite plates. Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics, 2014, 167, 67-81.	0.4	3
114	Damage identification of 2D and 3D trusses by using complete and incomplete noisy measurements. Structural Engineering and Mechanics, 2014, 52, 149-172.	1.0	5
115	Four New Methods for Finding Structural Critical Points[#]. Mechanics Based Design of Structures and Machines, 2013, 41, 399-420.	3.4	6
116	An effective membrane element based on analytical solution. European Journal of Mechanics, A/Solids, 2013, 39, 268-279.	2.1	23
117	Two new hybrid methods in integrating constitutive equations. International Journal of Mechanical Sciences, 2013, 77, 277-300.	3.6	6
118	Integrating the Pressure-Sensitive Nonassociative Plasticity by Exponential-Based Methods. Journal of Engineering Materials and Technology, Transactions of the ASME, 2013, 135, .	0.8	2
119	Comprehensive evaluation of structural geometrical nonlinear solution techniques Part I: Formulation and characteristics of the methods. Structural Engineering and Mechanics, 2013, 48, 849-878.	1.0	16
120	Comprehensive evaluation of structural geometrical nonlinear solution techniques Part II: Comparing efficiencies of the methods. Structural Engineering and Mechanics, 2013, 48, 879-914.	1.0	17
121	A bending element for isotropic, multilayered and piezoelectric plates. Latin American Journal of Solids and Structures, 2013, 10, 323-348.	0.6	5
122	Calibration of Hardening Rules for Cyclic Plasticity. International Journal of Engineering, Transactions B: Applications, 2013, 26, .	0.6	0
123	Stability and accuracy of non-linear dynamic analysis using time integration algorithms. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2012, 165, 455-471.	0.4	6
124	HYBRID TREFFTZ FORMULATION FOR THIN PLATE ANALYSIS. International Journal of Computational Methods, 2012, 09, 1250053.	0.8	8
125	Timestep Selection for Dynamic Relaxation Method. Mechanics Based Design of Structures and Machines, 2012, 40, 42-72.	3.4	28
126	Efficiency of dynamic relaxation methods in nonlinear analysis of truss and frame structures. Computers and Structures, 2012, 112-113, 295-310.	2.4	27

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127	Delamination detection in laminated composite beams using hybrid elements. Composite Structures, 2012, 94, 2777-2792.	3.1	9
128	A novel formulation for integrating nonlinear kinematic hardening Drucker-Pragerâ€™s yield condition. European Journal of Mechanics, A/Solids, 2012, 31, 163-178.	2.1	16
129	Formulating an effective generalized four-sided element. European Journal of Mechanics, A/Solids, 2012, 36, 141-155.	2.1	14
130	Estimating the Region of Attraction via collocation for autonomous nonlinear systems. Structural Engineering and Mechanics, 2012, 41, 263-284.	1.0	8
131	A new higher-order triangular plate bending element for the analysis of laminated composite and sandwich plates. Structural Engineering and Mechanics, 2012, 43, 253-271.	1.0	14
132	Two efficient hybrid-trefftz elements for plate bending analysis. Latin American Journal of Solids and Structures, 2012, 9, 43-67.	0.6	22
133	Accurate Solutions for Geometric Nonlinear Analysis of Eight Trusses. Mechanics Based Design of Structures and Machines, 2011, 39, 46-82.	3.4	13
134	Automatic DR Structural Analysis of Snap-Through and Snap-Back Using Optimized Load Increments. Journal of Structural Engineering, 2011, 137, 109-116.	1.7	34
135	Improving stability domains of the implicit higher order accuracy method. International Journal for Numerical Methods in Engineering, 2011, 88, 880-896.	1.5	22
136	Accurate and approximate integrations of Druckerâ€“Prager plasticity with linear isotropic and kinematic hardening. European Journal of Mechanics, A/Solids, 2011, 30, 345-361.	2.1	25
137	A new method of fictitious viscous damping determination for the dynamic relaxation method. Computers and Structures, 2011, 89, 783-794.	2.4	42
138	Nonlinear dynamic structural analysis using dynamic relaxation with zero damping. Computers and Structures, 2011, 89, 1274-1285.	2.4	41
139	STATIC AND DYNAMIC NONLINEAR ANALYSIS OF SEMI-RIGID STEEL FRAMES WITH NEW BEAM-COLUMN ELEMENT. International Journal of Engineering, Transactions B: Applications, 2011, , .	0.6	1
140	Vibration analysis of plane frames by customized stiffness and diagonal mass matrices. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2011, 225, 2848-2863.	1.1	3
141	Application of Exponential-Based Methods in Integrating the Constitutive Equations with Multicomponent Nonlinear Kinematic Hardening. Journal of Engineering Mechanics - ASCE, 2010, 136, 1502-1518.	1.6	23
142	A Mixed and Multi-Step Higher-Order Implicit Time Integration Family. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2010, 224, 2097-2108.	1.1	31
143	NONLINEAR STRUCTURAL ANALYSIS USING DYNAMIC RELAXATION METHOD WITH IMPROVED CONVERGENCE RATE. International Journal of Computational Methods, 2010, 07, 627-654.	0.8	17
144	The dynamic relaxation method using new formulation for fictitious mass and damping. Structural Engineering and Mechanics, 2010, 34, 109-133.	1.0	48

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145	Direct Adaptive Neurocontrol of Structures under Earth Vibration. Journal of Computing in Civil Engineering, 2009, 23, 299-307.	2.5	2
146	On the integration schemes for Druckerâ€“Prager's elastoplastic models based on exponential maps. International Journal for Numerical Methods in Engineering, 2008, 74, 799-826.	1.5	24
147	Implicit Higher-Order Accuracy Method for Numerical Integration in Dynamic Analysis. Journal of Structural Engineering, 2008, 134, 973-985.	1.7	52
148	Nonlinear dynamic analysis by Dynamic Relaxation method. Structural Engineering and Mechanics, 2008, 28, 549-570.	1.0	30
149	A family of 13-node plate bending triangular elements. Communications in Numerical Methods in Engineering, 1998, 14, 529-537.	1.3	8
150	Two-dimensional sensitivity analysis. Computers and Structures, 1996, 61, 563-571.	2.4	0
151	Three-dimensional sensitivity analysis using a factoring technique. Computers and Structures, 1993, 49, 157-165.	2.4	2
152	An Efficient Weighted Residual Time Integration Family. International Journal of Structural Stability and Dynamics, 0, , 2150106.	1.5	13
153	A 6-parameter triangular flat shell element for nonlinear analysis. European Journal of Computational Mechanics, 0, , 237-268.	0.0	9