Erasmo Carrera

List of Publications by Year
in descending order

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		9264	16183
616	24,535	74	124
papers	citations	h-index	g-index

665	665	665	3881
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Historical review of Zig-Zag theories for multilayered plates and shells. Applied Mechanics Reviews, 2003, 56, 287-308.	10.1	929
2	Theories and Finite Elements for Multilayered Plates and Shells:A Unified compact formulation with numerical assessment and benchmarking. Archives of Computational Methods in Engineering, 2003, 10, 215-296.	10.2	878
3	Theories and finite elements for multilayered, anisotropic, composite plates and shells. Archives of Computational Methods in Engineering, 2002, 9, 87-140.	10.2	800
4	Static, free vibration and buckling analysis of isotropic and sandwich functionally graded plates using a quasi-3D higher-order shear deformation theory and a meshless technique. Composites Part B: Engineering, 2013, 44, 657-674.	12.0	426
5	Developments, ideas, and evaluations based upon Reissnerâ€™s Mixed Variational Theorem in the modeling of multilayered plates and shells. Applied Mechanics Reviews, 2001, 54, 301-329.	10.1	414
6	Effects of thickness stretching in functionally graded plates and shells. Composites Part B: Engineering, 2011, 42, 123-133.	12.0	369
7	Stress, vibration and buckling analyses of FGM platesâ€”A state-of-the-art review. Composite Structures, 2015, 120, 10-31.	5.8	341
8	A quasi-3D sinusoidal shear deformation theory for the static and free vibration analysis of functionally graded plates. Composites Part B: Engineering, 2012, 43, 711-725.	12.0	301
9	Evaluation of Layerwise Mixed Theories for Laminated Plates Analysis. AIAA Journal, 1998, 36, 830-839.	2.6	285
10	REFINED BEAM THEORIES BASED ON A UNIFIED FORMULATION. International Journal of Applied Mechanics, 2010, 02, 117-143.	2.2	249
11	On the use of the Murakami's zig-zag function in the modeling of layered plates and shells. Computers and Structures, 2004, 82, 541-554.	4.4	246
12	A Survey With Numerical Assessment of Classical and Refined Theories for the Analysis of Sandwich Plates. Applied Mechanics Reviews, 2009, 62, .	10.1	243
13	A quasi-3D hyperbolic shear deformation theory for the static and free vibration analysis of functionally graded plates. Composite Structures, 2012, 94, 1814-1825.	5.8	230
14	Variable Kinematic Model for the Analysis of Functionally Graded Material plates. AIAA Journal, 2008, 46, 194-203.	2.6	221
15	Refined beam elements with arbitrary cross-section geometries. Computers and Structures, 2010, 88, 283-293.	4.4	218
16	Analysis of thickness locking in classical, refined and mixed multilayered plate theories. Composite Structures, 2008, 82, 549-562.	5.8	208
17	Classical and advanced multilayered plate elements based upon PVD and RMVT. Part 1: Derivation of finite element matrices. International Journal for Numerical Methods in Engineering, 2002, 55, 191-231.	2.8	198
18	C0 REISSNER-MINDLIN MULTILAYERED PLATE ELEMENTS INCLUDING ZIG-ZAG AND INTERLAMINAR STRESS CONTINUITY. International Journal for Numerical Methods in Engineering, 1996, 39, 1797-1820.	2.8	187

#	Article	IF	Citations
19	A STUDY OF TRANSVERSE NORMAL STRESS EFFECT ON VIBRATION OF MULTILAYERED PLATES AND SHELLS. Journal of Sound and Vibration, 1999, 225, 803-829.	3.9	185
20	A unified formulation to assess theories of multilayered plates for various bending problems. Composite Structures, 2005, 69, 271-293.	5.8	181
21	Refined beam elements with only displacement variables and plate/shell capabilities. Meccanica, 2012, 47, 537-556.	2.0	180
22	Isogeometric analysis of laminated composite and sandwich plates using a layerwise deformation theory. Composite Structures, 2013, 104, 196-214.	5.8	172
23	Classical and advanced multilayered plate elements based upon PVD and RMVT. Part 2: Numerical implementations. International Journal for Numerical Methods in Engineering, 2002, 55, 253-291.	2.8	166
24	Multilayered Shell Theories Accounting for Layerwise Mixed Description, Part 1: Governing Equations. AIAA Journal, 1999, 37, 1107-1116.	2.6	161
25	An assessment of mixed and classical theories on global and local response of multilayered orthotropic plates. Composite Structures, 2000, 50, 183-198.	5.8	159
26	Mixed layer-wise models for multilayered plates analysis. Composite Structures, 1998, 43, 57-70.	5.8	153
27	AN ASSESSMENT OF MIXED AND CLASSICAL THEORIES FOR THE THERMAL STRESS ANALYSIS OF ORTHOTROPIC MULTILAYERED PLATES. Journal of Thermal Stresses, 2000, 23, 797-831.	2.0	143
28	Analysis of laminated shells by a sinusoidal shear deformation theory and radial basis functions collocation, accounting for through-the-thickness deformations. Composites Part B: Engineering, 2011, 42, 1276-1284.	12.0	143
29	Free vibration analysis of functionally graded shells by a higher-order shear deformation theory and radial basis functions collocation, accounting for through-the-thickness deformations. European Journal of Mechanics, A/Solids, 2013, 37, 24-34.	3.7	142
30	On the Effectiveness of Higher-Order Terms in Refined Beam Theories. Journal of Applied Mechanics, Transactions ASME, 2011, 78, .	2.2	139
31	CZÂ° requirementsâ€"models for the two dimensional analysis of multilayered structures. Composite Structures, 1997, 37, 373-383.	5.8	137
32	Large-deflection and post-buckling analyses of laminated composite beams by Carrera Unified Formulation. Composite Structures, 2017, 170, 40-52.	5.8	133
33	Unified formulation of geometrically nonlinear refined beam theories. Mechanics of Advanced Materials and Structures, 2018, 25, 15-31.	2.6	128
34	Static analysis of doubly-curved anisotropic shells and panels using CUF approach, differential geometry and differential quadrature method. Composite Structures, 2014, 107, 675-697.	5.8	123
35	Static analyses of FGM beams by various theories and finite elements. Composites Part B: Engineering, 2015, 72, 1-9.	12.0	123
36	Layer-Wise Mixed Models for Accurate Vibrations Analysis of Multilayered Plates. Journal of Applied Mechanics, Transactions ASME, 1998, 65, 820-828.	2.2	122

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37	Thermo-Mechanical Bending of Functionally Graded Plates. Journal of Thermal Stresses, 2008, 31, 286-308.	2.0	119
38	Analysis of thickness locking in classical, refined and mixed theories for layered shells. Composite Structures, 2008, 85, 83-90.	5.8	117
39	Multilayered Shell Theories Accounting for Layerwise Mixed Description, Part 2: Numerical Evaluations. AIAA Journal, 1999, 37, 1117-1124.	2.6	116
40	A finite element model using a unified formulation for the analysis of viscoelastic sandwich laminates. Composites Part B: Engineering, 2013, 45, 1258-1264.	12.0	114
41	Free vibration analysis of rotating composite blades via Carrera Unified Formulation. Composite Structures, 2013, 106, 317-325.	5.8	112
42	Analysis of thick isotropic and cross-ply laminated plates by generalized differential quadrature method and a Unified Formulation. Composites Part B: Engineering, 2014, 58, 544-552.	12.0	112
43	Free vibration of FGM layered beams by various theories and finite elements. Composites Part B: Engineering, 2014, 59, 269-278.	12.0	108
44	Refined One-Dimensional Formulations for Laminated Structure Analysis. AIAA Journal, 2012, 50, 176-189.	2.6	107
45	Exact dynamic stiffness elements based on one-dimensional higher-order theories for free vibration analysis of solid and thin-walled structures. Journal of Sound and Vibration, 2013, 332, 6104-6127.	3.9	105
46	Guidelines and Recommendations to Construct Theories for Metallic and Composite Plates. AIAA Journal, 2010, 48, 2852-2866.	2.6	104
47	Radial basis functionsâ€“finite differences collocation and a Unified Formulation for bending, vibration and buckling analysis of laminated plates, according to Murakamiâ€™s zig-zag theory. Composite Structures, 2011, 93, 1613-1620.	5.8	104
48	Hierarchical theories for the free vibration analysis of functionally graded beams. Composite Structures, 2011, 94, 68-74.	5.8	102
49	Thermal Stability of FGM Sandwich Plates Under Various Through-the-Thickness Temperature Distributions. Journal of Thermal Stresses, 2014, 37, 1449-1481.	2.0	102
50	Unified Formulation Applied to Free Vibrations Finite Element Analysis of Beams with Arbitrary Section. Shock and Vibration, 2011, 18, 485-502.	0.6	101
51	Temperature Profile Influence on Layered Plates Response Considering Classical and Advanced Theories. AIAA Journal, 2002, 40, 1885-1896.	2.6	100
52	A priori vs. a posteriori evaluation of transverse stresses in multilayered orthotropic plates. Composite Structures, 2000, 48, 245-260.	5.8	99
53	Analysis of FGM Beams by Means of Classical and Advanced Theories. Mechanics of Advanced Materials and Structures, 2010, 17, 622-635.	2.6	99
54	Laminated beam analysis by polynomial, trigonometric, exponential and zig-zag theories. European Journal of Mechanics, A/Solids, 2013, 41, 58-69.	3.7	99

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55	A unified formulation to assess multilayered theories for piezoelectric plates. Computers and Structures, 2005, 83, 1217-1235.	4.4	98
56	Advanced mixed theories for bending analysis of functionally graded plates. Computers and Structures, 2010, 88, 1474-1483.	4.4	98
57	Static analysis of functionally graded sandwich plates according to a hyperbolic theory considering Zig-Zag and warping effects. Advances in Engineering Software, 2012, 52, 30-43.	3.8	97
58	Free vibration analysis of composite beams via refined theories. Composites Part B: Engineering, 2013, 44, 540-552.	12.0	96
59	Bending of FGM plates by a sinusoidal plate formulation and collocation with radial basis functions. Mechanics Research Communications, 2011, 38, 368-371.	1.8	94
60	Recent developments on refined theories for beams with applications. Mechanical Engineering Reviews, 2015, 2, 14-00298-14-00298.	4.7	93
61	Transverse Normal Stress Effects in Multilayered Plates. Journal of Applied Mechanics, Transactions ASME, 1999, 66, 1004-1012.	2.2	92
62	Analysis of laminated doubly-curved shells by a layerwise theory and radial basis functions collocation, accounting for through-the-thickness deformations. Computational Mechanics, 2011, 48, 13-25.	4.0	92
63	Refined dynamic stiffness elements applied to free vibration analysis of generally laminated composite beams with arbitrary boundary conditions. Composite Structures, 2014, 110, 305-316.	5.8	92
64	A unified formulation for finite element analysis of piezoelectric adaptive plates. Computers and Structures, 2006, 84, 1494-1505.	4.4	91
65	Hierarchic Multilayered Plate Elements for Coupled Multifield Problems of Piezoelectric Adaptive Structures: Formulation andÂNumerical Assessment. Archives of Computational Methods in Engineering, 2007, 14, 383-430.	10.2	89
66	Non-linear dynamic analysis of a sandwich beam with pseudoelastic SMA hybrid composite faces based on higher order finite element theory. Composite Structures, 2013, 96, 243-255.	5.8	88
67	Accuracy of refined finite elements for laminated plate analysis. Composite Structures, 2011, 93, 1311-1327.	5.8	87
68	Transverse Normal Strain Effect on Thermal Stress Analysis of Homogeneous and Layered Plates. AIAA Journal, 2005, 43, 2232-2242.	2.6	84
69	Classical and mixed finite elements for static and dynamic analysis of piezoelectric plates. International Journal for Numerical Methods in Engineering, 2007, 70, 1135-1181.	2.8	84
70	A study on arc-length-type methods and their operation failures illustrated by a simple model. Computers and Structures, 1994, 50, 217-229.	4.4	83
71	Refined hierarchical kinematics quasi-3D Ritz models for free vibration analysis of doubly curved FGM shells and sandwich shells with FGM core. Journal of Sound and Vibration, 2014, 333, 1485-1508.	3.9	83
72	An Improved Reissner-Mindlin-Type Model for the Electromechanical Analysis of Multilayered Plates Including Piezo-Layers. Journal of Intelligent Material Systems and Structures, 1997, 8, 232-248.	2.5	80

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73	Improved bending analysis of sandwich plates using a zig-zag function. Composite Structures, 2009, 89, 408-415.	5.8	79
74	Performance of CUF Approach to Analyze the Structural Behavior of Slender Bodies. Journal of Structural Engineering, 2012, 138, 285-297.	3.4	79
75	Free vibration analysis of civil engineering structures by component-wise models. Journal of Sound and Vibration, 2014, 333, 4597-4620.	3.9	79
76	Analysis of laminated beams via Unified Formulation and Legendre polynomial expansions. Composite Structures, 2016, 156, 78-92.	5.8	79
77	ZIGZAG AND INTERLAMINAR EQUILIBRIA EFFECTS IN LARGE-DEFLECTION AND POSTBUCKLING ANALYSIS OF MULTILAYERED PLATES. Mechanics of Advanced Materials and Structures, 1997, 4, 69-94.	2.6	78
78	Classical, Refined, and Component-Wise Analysis of Reinforced-Shell Wing Structures. AIAA Journal, 2013, 51, 1255-1268.	2.6	78
79	Thermo-Mechanical Analysis Of Functionally Graded Shells. Journal of Thermal Stresses, 2010, 33, 942-963.	2.0	77
80	Bending of composites and sandwich plates subjected to localized lateral loadings: a comparison of various theories. Composite Structures, 2005, 68, 185-202.	5.8	76
81	Free vibration analysis of sandwich plates with anisotropic face sheets in thermal environment by using the hierarchical trigonometric Ritz formulation. Composites Part B: Engineering, 2013, 50, 67-81.	12.0	76
82	Advanced variable kinematics Ritz and Galerkin formulations for accurate buckling and vibration analysis of anisotropic laminated composite plates. Composite Structures, 2011, 94, 50-67.	5.8	69
83	Refined shell elements for the analysis of functionally graded structures. Composite Structures, 2012, 94, 415-422.	5.8	69
84	Hierarchical theories of structures based on Legendre polynomial expansions with finite element applications. International Journal of Mechanical Sciences, 2017, 120, 286-300.	6.7	68
85	Single- vs Multilayer Plate Modelings on the Basis of Reissner's Mixed Theorem. AIAA Journal, 2000, 38, 342-352.	2.6	67
86	MITC technique extended to variable kinematic multilayered plate elements. Composite Structures, 2010, 92, 1888-1895.	5.8	65
87	Static analysis of laminated beams via a unified formulation. Composite Structures, 2011, 94, 75-83.	5.8	65
88	Static analysis of functionally graded plates using new non-polynomial displacement fields via Carrera Unified Formulation. Composites Part B: Engineering, 2016, 89, 127-142.	12.0	63
89	Variational Statements and Computational Models for MultiField Problems and Multilayered Structures. Mechanics of Advanced Materials and Structures, 2008, 15, 182-198.	2.6	61
90	Advanced Beam Formulations for Free-Vibration Analysis of Conventional and Joined Wings. Journal of Aerospace Engineering, 2012, 25, 282-293.	1.4	61

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91	Component-wise analysis of laminated anisotropic composites. International Journal of Solids and Structures, 2012, 49, 1839-1851.	2.7	61
92	Advances in the Ritz formulation for free vibration response of doubly-curved anisotropic laminated composite shallow and deep shells. Composite Structures, 2013, 101, 111-128.	5.8	61
93	Static and free vibration analysis of laminated beams by refined theory based on Chebyshev polynomials. Composite Structures, 2015, 132, 1248-1259.	5.8	61
94	Shell elements with through-the-thickness variable kinematics for the analysis of laminated composite and sandwich structures. Composites Part B: Engineering, 2017, 111, 294-314.	12.0	61
95	The effects of shear deformation and curvature on buckling and vibrations of cross-ply laminated composite shells. Journal of Sound and Vibration, 1991, 150, 405-433.	3.9	60
96	Finite deformation higher-order shell models and rigid-body motions. International Journal of Solids and Structures, 2008, 45, 3153-3172.	2.7	60
97	Accurate free vibration analysis of thermo-mechanically pre/post-buckled anisotropic multilayered plates based on a refined hierarchical trigonometric Ritz formulation. Composite Structures, 2013, 95, 381-402.	5.8	60
98	A thermo-mechanical analysis of functionally graded beams via hierarchical modelling. Composite Structures, 2013, 95, 676-690.	5.8	59
99	Analysis of thick isotropic and cross-ply laminated plates by radial basis functions and a Unified Formulation. Journal of Sound and Vibration, 2011, 330, 771-787.	3.9	58
100	Buckling analysis of sandwich plates with functionally graded skins using a new quasiâ€3D hyperbolic sine shear deformation theory and collocation with radial basis functions. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2012, 92, 749-766.	1.6	58
101	Shell finite elements with different throughâ€theâ€thickness kinematics for the linear analysis of cylindrical multilayered structures. International Journal for Numerical Methods in Engineering, 2013, 93, 160-182.	2.8	58
102	Free vibration analysis of variable stiffness composite laminated beams and plates by novel hierarchical differential quadrature finite elements. Composite Structures, 2021, 274, 114364.	5.8	57
103	Coupled thermo-mechanical analysis of one-layered and multilayered plates. Composite Structures, 2010, 92, 1793-1812.	5.8	56
104	Computations and evaluations of higher-order theories for free vibration analysis of beams. Journal of Sound and Vibration, 2012, 331, 4269-4284.	3.9	56
105	Geometrically nonlinear refined shell theories by Carrera Unified Formulation. Mechanics of Advanced Materials and Structures, 0, , 1-21.	2.6	56
106	Optimized free-form surface modeling of point clouds from laser-based measurement. Mechanics of Advanced Materials and Structures, 2021, 28, 1570-1578.	2.6	56
107	Refined and Advanced Models for Multilayered Plates and Shells Embedding Functionally Graded Material Layers. Mechanics of Advanced Materials and Structures, 2010, 17, 603-621.	2.6	55
108	Carrera unified formulation (CUF) for the micropolar plates and shells. I. Higher order theory. Mechanics of Advanced Materials and Structures, 2022, 29, 773-795.	2.6	54

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109	Carrera unified formulation (CUF) for the micropolar beams: Analytical solutions. Mechanics of Advanced Materials and Structures, 2021, 28, 583-607.	2.6	54
110	A Reissnerâ€™s Mixed Variational Theorem Applied to Vibration Analysis of Multilayered Shell. Journal of Applied Mechanics, Transactions ASME, 1999, 66, 69-78.	2.2	53
111	Variable kinematic models applied to free-vibration analysis of functionally graded material shells. European Journal of Mechanics, A/Solids, 2010, 29, 1078-1087.	3.7	53
112	Selection of appropriate multilayered plate theories by using a genetic like algorithm. Composite Structures, 2012, 94, 1175-1186.	5.8	52
113	Use of Lagrange multipliers to combine 1D variable kinematic finite elements. Computers and Structures, 2013, 129, 194-206.	4.4	52
114	Component-Wise Method Applied to Vibration of Wing Structures. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	2.2	51
115	Analysis of Functionally Graded Material Plates Using Triangular Elements with Cell-Based Smoothed Discrete Shear Gap Method. Mathematical Problems in Engineering, 2014, 2014, 1-13.	1.1	51
116	A free vibration analysis of three-dimensional sandwich beams using hierarchical one-dimensional finite elements. Composites Part B: Engineering, 2017, 110, 7-19.	12.0	51
117	Refined 2D Models for the Analysis of Functionally Graded Piezoelectric Plates. Journal of Intelligent Material Systems and Structures, 2009, 20, 1783-1797.	2.5	50
118	Vibration Modeling of Multilayer Composite Structures with Viscoelastic Layers. Mechanics of Advanced Materials and Structures, 2015, 22, 136-149.	2.6	50
119	Large-deflection and post-buckling analyses of isotropic rectangular plates by Carrera Unified Formulation. International Journal of Non-Linear Mechanics, 2019, 116, 18-31.	2.6	50
120	Static buckling of moderately thick, anisotropic, laminated and sandwich cylindrical shell panels. AIAA Journal, 1990, 28, 1782-1793.	2.6	49
121	Multi-coating inhomogeneities approach for the effective thermo-electro-elastic properties of piezoelectric composite materials. Composite Structures, 2010, 92, 964-972.	5.8	49
122	Non-linear transient dynamic analysis of sandwich plate with composite face-sheets embedded with shape memory alloy wires and flexible core- based on the mixed LW (layer-wise)/ESL (equivalent single) Tj ETQq0 0 0 rgBT /Overlock 10 T	12.0	49
123	Modal analysis of delaminated plates and shells using Carrera Unified Formulation â€“ MITC9 shell element. Mechanics of Advanced Materials and Structures, 2018, 25, 681-697.	2.6	48
124	A refined multilayered finite-element model applied to linear and non-linear analysis of sandwich plates. Composites Science and Technology, 1998, 58, 1553-1569.	7.8	47
125	Multilayered shell finite element with interlaminar continuous shear stresses: a refinement of the Reissner-Mindlin formulation. International Journal for Numerical Methods in Engineering, 2000, 48, 843-874.	2.8	47
126	Equivalent electro-elastic properties of Macro Fiber Composite (MFC) transducers using asymptotic expansion approach. Composites Part B: Engineering, 2011, 42, 444-455.	12.0	47

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127	Refined free vibration analysis of one-dimensional structures with compact and bridge-like cross-sections. Thin-Walled Structures, 2012, 56, 49-61.	5.3	47
128	Thermo-Mechanical Buckling Analysis of Anisotropic Multilayered Composite and Sandwich Plates by Using Refined Variable-Kinematics Theories. Journal of Thermal Stresses, 2013, 36, 321-350.	2.0	47
129	Coupled thermoelastic effect in free vibration analysis of anisotropic multilayered plates and FGM plates by using a variable-kinematics Ritz formulation. European Journal of Mechanics, A/Solids, 2014, 44, 157-174.	3.7	47
130	Classical, higher-order, zig-zag and variable kinematic shell elements for the analysis of composite multilayered structures. European Journal of Mechanics, A/Solids, 2018, 72, 97-110.	3.7	47
131	Two Benchmarks to Assess Two-Dimensional Theories of Sandwich, Composite Plates. AIAA Journal, 2003, 41, 1356-1362.	2.6	46
132	Variable kinematic beam elements coupled via Arlequin method. Composite Structures, 2011, 93, 697-708.	5.8	46
133	Linearized buckling analysis of isotropic and composite beam-columns by Carrera Unified Formulation and dynamic stiffness method. Mechanics of Advanced Materials and Structures, 2016, 23, 1092-1103.	2.6	46
134	Global-local analysis of laminated plates by node-dependent kinematic finite elements with variable ESL/LW capabilities. Composite Structures, 2017, 172, 1-14.	5.8	46
135	A new method of smart and optimal flutter control for composite laminated panels in supersonic airflow under thermal effects. Journal of Sound and Vibration, 2018, 414, 218-232.	3.9	46
136	CLOSED-FORM SOLUTIONS TO ASSESS MULTILAYERED-PLATE THEORIES FOR VARIOUS THERMAL STRESS PROBLEMS. Journal of Thermal Stresses, 2004, 27, 1001-1031.	2.0	45
137	Hierarchical modelling of doubly curved laminated composite shells under distributed and localised loadings. Composites Part B: Engineering, 2011, 42, 682-691.	12.0	45
138	Multilayered plate elements for the analysis of multifield problems. Finite Elements in Analysis and Design, 2010, 46, 732-742.	3.2	44
139	A layer-wise MITC9 finite element for the free-vibration analysis of plates with piezo-patches. International Journal of Smart and Nano Materials, 2015, 6, 85-104.	4.2	44
140	Carrera Unified Formulation for Free-Vibration Analysis of Aircraft Structures. AIAA Journal, 2016, 54, 280-292.	2.6	44
141	Analysis of laminated composites and sandwich structures by variable-kinematic MITC9 plate elements. Journal of Sandwich Structures and Materials, 2018, 20, 4-41.	3.5	44
142	An evaluation of geometrical nonlinear effects of thin and moderately thick multilayered composite shells. Composite Structures, 1997, 40, 11-24.	5.8	43
143	Closed-form solutions for the free-vibration problem of multilayered piezoelectric shells. Computers and Structures, 2006, 84, 1506-1518.	4.4	43
144	Analysis of reinforced and thin-walled structures by multi-line refined 1D/beam models. International Journal of Mechanical Sciences, 2013, 75, 278-287.	6.7	43

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145	Bending and vibrations analyses of laminated beams by using a zig-zag-layer-wise theory. Composites Part B: Engineering, 2016, 98, 269-280.	12.0	43
146	MITC9 shell finite elements with miscellaneous through-the-thickness functions for the analysis of laminated structures. Composite Structures, 2016, 154, 360-373.	5.8	43
147	Thermal Stress Analysis by Refined Multilayered Composite Shell Theories. Journal of Thermal Stresses, 2008, 32, 165-186.	2.0	42
148	Variable Kinematic One-Dimensional Finite Elements for the Analysis of Rotors Made of Composite Materials. Journal of Engineering for Gas Turbines and Power, 2014, 136, .	1.1	42
149	Variable Kinematic Shell Elements for the Analysis of Electro-Mechanical Problems. Mechanics of Advanced Materials and Structures, 2015, 22, 77-106.	2.6	42
150	One-dimensional finite element formulation with node-dependent kinematics. Computers and Structures, 2017, 192, 114-125.	4.4	42
151	A general multi-scale two-level optimisation strategy for designing composite stiffened panels. Composite Structures, 2018, 201, 968-979.	5.8	42
152	Accurate evaluation of failure indices of composite layered structures via various FE models. Composites Science and Technology, 2018, 167, 174-189.	7.8	42
153	Guidelines and Recommendations on the Use of Higher Order Finite Elements for Bending Analysis of Plates. International Journal for Computational Methods in Engineering Science and Mechanics, 2011, 12, 303-324.	2.1	41
154	A variable kinematic Ritz formulation for vibration study of quadrilateral plates with arbitrary thickness. Journal of Sound and Vibration, 2011, 330, 4611-4632.	3.9	41
155	Radial basis functions collocation and a unified formulation for bending, vibration and buckling analysis of laminated plates, according to a variation of Murakamiâ€™s zig-zag theory. European Journal of Mechanics, A/Solids, 2011, 30, 559-570.	3.7	41
156	Refined 1D Finite Elements for the Analysis of Secondary, Primary, and Complete Civil Engineering Structures. Journal of Structural Engineering, 2015, 141, .	3.4	41
157	ANALYSIS OF THIN-WALLED BEAMS VIA A ONE-DIMENSIONAL UNIFIED FORMULATION THROUGH A NAVIER-TYPE SOLUTION. International Journal of Applied Mechanics, 2011, 03, 407-434.	2.2	40
158	A numerical assessment on two-dimensional failure criteria for composite layered structures. Composites Part B: Engineering, 2012, 43, 280-289.	12.0	40
159	Results on best theories for metallic and laminated shells including Layer-Wise models. Composite Structures, 2015, 126, 285-298.	5.8	40
160	Accurate static response of single- and multi-cell laminated box beams. Composite Structures, 2016, 136, 372-383.	5.8	40
161	A Comparison of Various Kinematic Models for Sandwich Shell Panels with Soft Core. Journal of Composite Materials, 2009, 43, 2201-2221.	2.4	39
162	Buckling of composite thin walled beams by refined theory. Composite Structures, 2012, 94, 563-570.	5.8	39

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163	Progressive damage analysis of composite structures using higher-order layer-wise elements. Composites Part B: Engineering, 2020, 190, 107921.	12.0	39
164	Nonlinear hygrothermal vibration and buckling analysis of imperfect FG-CNTRC cylindrical panels embedded in viscoelastic foundations. European Journal of Mechanics, A/Solids, 2021, 85, 104107.	3.7	39
165	Variable-Kinematics Approach for Linearized Buckling Analysis of Laminated Plates and Shells. AIAA Journal, 2010, 48, 1987-1996.	2.6	38
166	Refined finite element solutions for anisotropic laminated plates. Composite Structures, 2018, 183, 63-76.	5.8	38
167	An adaptable refinement approach for shell finite element models based on node-dependent kinematics. Composite Structures, 2019, 210, 1-19.	5.8	38
168	Vibration Analysis of Anisotropic Simply Supported Plates by Using Variable Kinematic and Rayleigh-Ritz Method. Journal of Vibration and Acoustics, Transactions of the ASME, 2011, 133, .	1.6	37
169	Analysis of laminated composites and sandwich structures by trigonometric, exponential and miscellaneous polynomials and a MITC9 plate element. Composite Structures, 2016, 150, 103-114.	5.8	37
170	Free vibration analysis of simply supported beams with solid and thin-walled cross-sections using higher-order theories based on displacement variables. Thin-Walled Structures, 2016, 98, 478-495.	5.3	37
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