Erasmo Carrera

List of Publications by Year
in descending order

616 papers	24,535 citations	9264 74 h-index	16183 124 g-index
665 all docs	665 docs citations	665 times ranked	3881 citing authors

#	Article	IF	Citations
1	Numerical simulation of deployable ultra-thin composite shell structures for space applications and comparison with experiments. Mechanics of Advanced Materials and Structures, 2023, 30, 1591-1603.	2.6	23
2	An extension of the Hamilton variational principle for piezoelectric bodies with dipolar structure. Mechanics of Advanced Materials and Structures, 2023, 30, 2453-2457.	2.6	16
3	Synthesis, experimental testing and multi-scale modelling of graphene foam/epoxy composite. Mechanics of Advanced Materials and Structures, 2023, 30, 2477-2486.	2.6	15
4	Unified one-dimensional finite element for the analysis of hyperelastic soft materials and structures. Mechanics of Advanced Materials and Structures, 2023, 30, 342-355.	2.6	17
5	A geometrically nonlinear analysis through hierarchical one-dimensional modelling of sandwich beam structures. Acta Mechanica, 2023, 234, 67-83.	2.1	9
6	Geometrically nonlinear analysis and vibration of in-plane-loaded variable angle tow composite plates and shells. Acta Mechanica, 2023, 234, 85-108.	2.1	26
7	The effects of surroundings and stiffeners in the CUF-based postbuckling analysis of composite panels under in-plane shear. Mechanics of Advanced Materials and Structures, 2023, 30, 3267-3279.	2.6	31
8	High-order finite beam elements for propagation analyses of arbitrary-shaped one-dimensional waveguides. Mechanics of Advanced Materials and Structures, 2022, 29, 1883-1891.	2.6	8
9	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
10	Carrera unified formulation (CUF) for the micropolar plates and shells. II. Complete linear expansion case. Mechanics of Advanced Materials and Structures, 2022, 29, 796-815.	2.6	34
11	Experimental and numerical vibration correlation of pre-stressed laminated reinforced panel. Mechanics of Advanced Materials and Structures, 2022, 29, 2165-2175.	2.6	10
12	Carrera unified formulation for the micropolar plates. Mechanics of Advanced Materials and Structures, 2022, 29, 3163-3186.	2.6	29
13	Free vibration analysis of curved metallic and composite beam structures using a novel variable-kinematic DQ method. Mechanics of Advanced Materials and Structures, 2022, 29, 3743-3762.	2.6	17
14	Component-wise approach to reinforced concrete structures. Mechanics of Advanced Materials and Structures, 2022, 29, 3871-3888.	2.6	12
15	A reciprocal relation with application in the study of the dislocations. Mechanics of Advanced Materials and Structures, 2022, 29, 6330-6335.	2.6	4
16	Static analysis of thin-walled beams accounting for nonlinearities. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 2967-2980.	2.1	3
17	Elastoplastic Micromechanical Analysis of Fiber-Reinforced Composites with Defects. Aerotecnica Missili & Spazio, 2022, 101, 53-59.	0.9	7
18	Numerical vibration correlation technique for thin-walled composite beams under compression based on accurate refined finite element. Composite Structures, 2022, 280, 114861.	5.8	15

#	Article	IF	Citations
19	Quasi‐static fracture analysis by coupled three‐dimensional peridynamics and high order one‐dimensional finite elements based on local elasticity. International Journal for Numerical Methods in Engineering, 2022, 123, 1098-1113.	2.8	23
20	Vibration and Buckling of Composite Shells Subjected to Combined Internal Pressure and Axial Compression. , 2022, , .		2
21	Nonlinear and linearized vibration analysis of plates and shells subjected to compressive loading. International Journal of Non-Linear Mechanics, 2022, 141, 103936.	2.6	23
22	Refined structural theories for the random response of fiber-reinforced and sandwich composite structures. , 2022, , .		1
23	Large deflection of composite beams by finite elements with node-dependent kinematics. Computational Mechanics, 2022, 69, 1481-1500.	4.0	11
24	Evaluation of stiffeners effects on buckling and post-buckling of laminated panels. Aerospace Science and Technology, 2022, 123, 107431.	4.8	9
25	Exact component-wise solutions for 3D free vibration and stress analysis of hybrid steel–concrete composite beams. Thin-Walled Structures, 2022, 174, 109094.	5.3	10
26	Optimum distribution of materials for functionally graded rectangular plates considering thermal buckling. Composite Structures, 2022, 289, 115401.	5.8	14
27	Carrera unified formulation (CUF) for the micropolar plates and shells. III. Classical models. Mechanics of Advanced Materials and Structures, 2022, 29, 6336-6360.	2.6	18
28	Carrera unified formulation (CUF) for the analysis of disbonds in single lap joints (SLJ). , 2022, , .		0
29	Thermal buckling loads of rectangular FG plates with temperature-dependent properties using Carrera Unified Formulation. Composite Structures, 2022, 295, 115787.	5.8	12
30	Hierarchical beam finite elements for geometrically nonlinear analysis coupled with Asymptotic Numerical Method. Mechanics of Advanced Materials and Structures, 2021, 28, 2487-2500.	2.6	14
31	Stress analyses of viscoelastic three-dimensional beam-like structures with low- and high-order one-dimensional finite elements. Meccanica, 2021, 56, 1475-1482.	2.0	7
32	Carrera unified formulation (CUF) for the micropolar beams: Analytical solutions. Mechanics of Advanced Materials and Structures, 2021, 28, 583-607.	2.6	54
33	Mechanical and thermal buckling loads of rectangular FG plates by using higher-order unified formulation. Mechanics of Advanced Materials and Structures, 2021, 28, 608-617.	2.6	31
34	Homogenization and free-vibration analysis of elastic metamaterial plates by Carrera Unified Formulation finite elements. Mechanics of Advanced Materials and Structures, 2021, 28, 476-485.	2.6	25
35	A critical assessment of design tools for stress analysis of adhesively bonded double lap joints. Mechanics of Advanced Materials and Structures, 2021, 28, 791-811.	2.6	6
36	Nonlinear analysis of thin-walled beams with highly deformable sections. International Journal of Non-Linear Mechanics, 2021, 128, 103613.	2.6	18

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37	Selection of element-wise shell kinematics using neural networks. Computers and Structures, 2021, 244, 106425.	4.4	11
38	On the role of large cross-sectional deformations in the nonlinear analysis of composite thin-walled structures. Archive of Applied Mechanics, 2021, 91, 1605-1621.	2.2	9
39	Large deflection and post-buckling of thin-walled structures by finite elements with node-dependent kinematics. Acta Mechanica, 2021, 232, 591-617.	2.1	12
40	Static and dynamic hygrothermal postbuckling analysis of sandwich cylindrical panels with an FG-CNTRC core surrounded by nonlinear viscoelastic foundations. Composite Structures, 2021, 259, 113214.	5.8	21
41	Vibro-acoustic analysis of composite plate-cavity systems via CUF finite elements. Composite Structures, 2021, 259, 113428.	5.8	17
42	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
43	A novel computational framework for the analysis of bistable composite beam structures. Composite Structures, 2021, 257, 113167.	5.8	5
44	Closed-form solution for the micropolar plates: Carrera unified formulation (CUF) approach. Archive of Applied Mechanics, 2021, 91, 91-116.	2.2	20
45	Global-local plug-in for high-fidelity composite stress analysis in Femap/NX Nastran. Mechanics of Advanced Materials and Structures, 2021, 28, 1121-1127.	2.6	9
46	Global-local plug-in for high-fidelity composite stress analysis in ABAQUS. Mechanics of Advanced Materials and Structures, 2021, 28, 1445-1450.	2.6	13
47	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
48	Flutter analysis of rotary laminated composite structures using higher-order kinematics. Composites Part C: Open Access, 2021, 4, 100100.	3.2	2
49	Validation of FEM models based on Carrera Unified Formulation for the parametric characterization of composite metamaterials. Journal of Sound and Vibration, 2021, 498, 115979.	3.9	11
50	Stress States in Highly Flexible Thin-Walled Composite Structures by Unified Shell Model. AIAA Journal, 2021, 59, 4243-4256.	2.6	18
51	Stability and transient analyses of asymmetric rotors on anisotropic supports. Journal of Sound and Vibration, 2021, 500, 116006.	3.9	8
52	Who needs refined structural theories?. Composite Structures, 2021, 264, 113671.	5.8	27
53	Static and dynamic testing of a full-composite VLA by using digital image correlation and output-only ground vibration testing. Aerospace Science and Technology, 2021, 112, 106632.	4.8	5
54	Compressive damage modeling of fiber-reinforced composite laminates using 2D higher-order layer-wise models. Composites Part B: Engineering, 2021, 215, 108753.	12.0	26

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55	Dynamic analyses of viscoelastic three-dimensional structures with advanced one-dimensional finite elements. European Journal of Mechanics, A/Solids, 2021, 88, 104241.	3.7	5
56	Mechanical characterization of 3D printed mimic of human artery affected by atherosclerotic plaque through numerical and experimental methods. Biomechanics and Modeling in Mechanobiology, 2021, 20, 1969-1980.	2.8	7
57	Buckling and post-buckling of anisotropic flat panels subjected to axial and shear in-plane loadings accounting for classical and refined structural and nonlinear theories. International Journal of Non-Linear Mechanics, 2021, 133, 103716.	2.6	22
58	Multi-layered plate finite element models with node-dependent kinematics for smart structures with piezoelectric components. Chinese Journal of Aeronautics, 2021, 34, 164-175.	5.3	7
59	Component-wise damage detection by neural networks and refined FEs training. Journal of Sound and Vibration, 2021, 509, 116255.	3.9	11
60	Benchmarks for higher-order modes evaluation in the free vibration response of open thin-walled beams due to the cross-sectional deformations. Thin-Walled Structures, 2021, 166, 107965.	5.3	23
61	Post-buckling and large-deflection analysis of a sandwich FG plate with FG porous core using Carrera's Unified Formulation. Composite Structures, 2021, 272, 114189.	5.8	29
62	Efficient CUF-based method for the vibrations of thin-walled open cross-section beams under compression. Journal of Sound and Vibration, 2021, 510, 116232.	3.9	14
63	A finite element approach for the static and vibration analyses of functionally graded material viscoelastic sandwich beams with nonlinear material behavior. Composite Structures, 2021, 274, 114315.	5.8	18
64	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
65	Effect of different geometrically nonlinear strain measures on the static nonlinear response of isotropic and composite shells with constant curvature. International Journal of Mechanical Sciences, 2021, 209, 106713.	6.7	19
66	Thermo-mechanical design optimization of symmetric and non-symmetric sandwich plates with ceramic-metal-ceramic functionally graded core to minimize stress, deformation and mass. Composite Structures, 2021, 276, 114496.	5.8	15
67	Use of Lagrange polynomials to build refined theories for laminated beams, plates and shells. Composite Structures, 2021, 276, 114505.	5.8	12
68	Evaluation of bending and post-buckling behavior of thin-walled FG beams in geometrical nonlinear regime with CUF. Composite Structures, 2021, 275, 114408.	5.8	12
69	A global–local approach for progressive damage analysis of fiber-reinforced composite laminates. Thin-Walled Structures, 2021, 169, 108343.	5.3	9
70	Accurate Stress Analysis of Variable Angle Tow Shells by High-Order Equivalent-Single-Layer and Layer-Wise Finite Element Models. Materials, 2021, 14, 6486.	2.9	23
71	Evaluation of Stress Distribution of Isotropic, Composite, and FG Beams with Different Geometries in Nonlinear Regime via Carrera-Unified Formulation and Lagrange Polynomial Expansions. Applied Sciences (Switzerland), 2021, 11, 10627.	2.5	9
72	Evaluation of geometrically nonlinear effects due to large cross-sectional deformations of compact and shell-like structures. Mechanics of Advanced Materials and Structures, 2020, 27, 1269-1277.	2.6	14

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73	Strong and weak form solutions of curved beams via Carrera's unified formulation. Mechanics of Advanced Materials and Structures, 2020, 27, 1342-1353.	2.6	13
74	Some estimates on solutions of mixed problems for mixtures. Mechanics of Advanced Materials and Structures, 2020, 27, 1776-1782.	2.6	3
75	On the boundary value problem in the nonlinear theory of dipolar elastic materials. Mechanics of Advanced Materials and Structures, 2020, 27, 1619-1625.	2.6	1
76	J.N. Reddy is selected to receive the 2019 Stephen P. Timoshenko Medal. Mechanics of Advanced Materials and Structures, 2020, 27, 1-2.	2.6	18
77	On the effects of trigonometric and exponential terms on the best theory diagrams for metallic, multilayered, and functionally graded plates. Mechanics of Advanced Materials and Structures, 2020, 27, 426-440.	2.6	8
78	Hygro-thermo-mechanical modelling and analysis of multilayered plates with embedded functionally graded material layers. Composite Structures, 2020, 233, 111442.	5.8	28
79	Modeling and analysis of spiral actuators by exact geometry piezoelectric solid-shell elements. Journal of Intelligent Material Systems and Structures, 2020, 31, 53-70.	2.5	3
80	Isogeometric analysis of 3D straight beam-type structures by Carrera Unified Formulation. Applied Mathematical Modelling, 2020, 79, 768-792.	4.2	17
81	Contact analysis of laminated structures including transverse shear and stretching. European Journal of Mechanics, A/Solids, 2020, 80, 103899.	3.7	5
82	Nonlinear analysis of composite tape springs by refined beam models. , 2020, , .		2
83	Computationally-Efficient Structural Models for Analysis of Woven Composites. , 2020, , .		2
84	Methods and guidelines for the choice of shell theories. Acta Mechanica, 2020, 231, 395-434.	2.1	25
85	Coupled thermo-mechanical finite element models with node-dependent kinematics for multi-layered shell structures. International Journal of Mechanical Sciences, 2020, 171, 105379.	6.7	9
86	Effect of large displacements on the linearized vibration of composite beams. International Journal of Non-Linear Mechanics, 2020, 120, 103390.	2.6	27
87	Nonlinear analysis of compact and thin-walled metallic structures including localized plasticity under contact conditions. Engineering Structures, 2020, 203, 109819.	5.3	5
88	Progressive delamination of laminated composites via 1D models. Composite Structures, 2020, 235, 111799.	5.8	22
89	Layerwise mixed elements with node-dependent kinematics for global–local stress analysis of multilayered plates using high-order Legendre expansions. Computer Methods in Applied Mechanics and Engineering, 2020, 359, 112764.	6.6	17
90	Vibration of metallic and composite shells in geometrical nonlinear equilibrium states. Thin-Walled Structures, 2020, 157, 107131.	5.3	27

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91	Progressive damage analysis of composite laminates subjected to low-velocity impact using 2D layer-wise structural models. International Journal of Non-Linear Mechanics, 2020, 127, 103591.	2.6	18
92	Advanced modeling of embedded piezo-electric transducers for the health-monitoring of layered structures. International Journal of Smart and Nano Materials, 2020, 11, 325-342.	4.2	11
93	Flutter analysis of laminated composite structures using Carrera Unified Formulation. Composite Structures, 2020, 253, 112759.	5.8	13
94	Coupling three‐dimensional peridynamics and high‐order one‐dimensional finite elements based on local elasticity for the linear static analysis of solid beams and thin‐walled reinforced structures. International Journal for Numerical Methods in Engineering, 2020, 121, 5066-5081.	2.8	25
95	Assessment of MITC plate elements based on CUF with respect to distorted meshes. Composite Structures, 2020, 238, 111962.	5.8	6
96	Numerical analysis of disbonding in sandwich structures using 1D finite elements. Composite Structures, 2020, 252, 112717.	5.8	5
97	Evaluation of the influence of voids on 3D representative volume elements of fiber-reinforced polymer composites using CUF micromechanics. Composite Structures, 2020, 254, 112833.	5.8	26
98	Evaluation of exact electro-elastic static and free vibration solutions of multilayered plates for benchmarking: Piezoelectric composite laminates and soft core sandwich plates. Composites Part C: Open Access, 2020, 2, 100038.	3.2	3
99	Best Spatial Distributions of Shell Kinematics Over 2D Meshes for Free Vibration Analyses. Aerotecnica Missili & Spazio, 2020, 99, 217-232.	0.9	5
100	Surface elastic waves whispering gallery modes based subwavelength tunable waveguide and cavity modes of the phononic crystals. Mechanics of Advanced Materials and Structures, 2020, 27, 1053-1064.	2.6	25
101	Shell finite element models with local kinematic refinements based on Reissner's Mixed Variational Theorem with layer-wise descriptions. Composite Structures, 2020, 250, 112587.	5.8	4
102	Evaluation of geometrically nonlinear terms in the large-deflection and post-buckling analysis of isotropic rectangular plates. International Journal of Non-Linear Mechanics, 2020, 121, 103461.	2.6	31
103	Popular benchmarks of nonlinear shell analysis solved by 1D and 2D CUF-based finite elements. Mechanics of Advanced Materials and Structures, 2020, 27, 1098-1109.	2.6	29
104	Efficient numerical evaluation of transmission loss in homogenized acoustic metamaterials for aeronautical application. Applied Acoustics, 2020, 164, 107253.	3.3	24
105	Analysis of process-induced deformations and residual stresses in curved composite parts considering transverse shear stress and thickness stretching. Composite Structures, 2020, 241, 112057.	5.8	18
106	Progressive damage analysis of composite structures using higher-order layer-wise elements. Composites Part B: Engineering, 2020, 190, 107921.	12.0	39
107	A variable kinematic one-dimensional model for the hygro-mechanical analysis of composite materials. Composite Structures, 2020, 242, 112089.	5.8	5
108	Evaluation of stress distributions in the geometrical nonlinear regime of functionally graded structures. Composite Structures, 2020, 246, 112385.	5.8	5

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109	Assessment of classical, advanced, and layer-wise theories for the vibration of rotating composite anisotropic blades. Composite Structures, 2020, 245, 112315.	5.8	13
110	Design optimization of functionally graded plates under thermo-mechanical loadings to minimize stress, deformation and mass. Composite Structures, 2020, 245, 112360.	5.8	29
111	Free Vibration and Stress Analysis of Laminated Box Beam with and Without Cut-Off. Lecture Notes in Mechanical Engineering, 2020, , 185-196.	0.4	2
112	On the use of neural networks to evaluate performances of shell models for composites. Advanced Modeling and Simulation in Engineering Sciences, 2020, 7, .	1.7	4
113	Accurate through-the-thickness stress distributions in thin-walled metallic structures subjected to large displacements and large rotations. Vietnam Journal of Mechanics, 2020, 42, 239-254.	0.5	5
114	EFFECT OF FIBER ORIENTATION PATH ON THE BUCKLING, FREE VIBRATION, AND STATIC ANALYSES OF VARIABLE ANGLE TOW PANELS. Facta Universitatis, Series: Mechanical Engineering, 2020, 18, 165.	4.6	13
115	Effective Static and Dynamic Finite Element Modeling of a Double Swept Composite Rotor Blade. Journal of the American Helicopter Society, 2020, 65, 1-12.	0.8	8
116	Classical and Advanced Modeling of Rotating Composite Blades and Rotors. , 2020, , 282-294.		0
117	Node-Dependent Kinematics, Multilayered Beam, Plate, and Shell Elements. , 2020, , 1812-1824.		0
118	Variable-Kinematics, Meshless Analysis of Composite Beams. , 2020, , 2587-2600.		0
119	Axiomatic/Asymptotic Method and Best Theory Diagram for Composite Plates and Shells. , 2020, , 143-155.		0
120	Time Response Stress Analysis of Solid and Reinforced Thin-Walled Structures by Component-Wise Models. International Journal of Structural Stability and Dynamics, 2020, 20, 2043010.	2.4	7
121	Nonlinear vibration of imperfect FG-CNTRC cylindrical panels under external pressure in the thermal environment. Composite Structures, 2019, 227, 111310.	5.8	27
122	The MAMS J.N. Reddy Medal at the 1st and 2nd ICMAMS. Mechanics of Advanced Materials and Structures, 2019, 26, 1995-1996.	2.6	0
123	Evaluation of Various Geometrical Nonlinearities in the Response of Beams and Shells. AIAA Journal, 2019, 57, 3524-3533.	2.6	18
124	Computationally Efficient Concurrent Multiscale Framework for the Linear Analysis of Composite Structures. AIAA Journal, 2019, 57, 4019-4028.	2.6	8
125	Comparison of classical and refined beam models applied on isotropic and FG thin-walled beams in nonlinear buckling response. Composite Structures, 2019, 229, 111490.	5.8	11
126	Evaluation of shear and membrane locking in refined hierarchical shell finite elements for laminated structures. Advanced Modeling and Simulation in Engineering Sciences, 2019, 6, .	1.7	8

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127	Best theory diagrams for multilayered structures via shell finite elements. Advanced Modeling and Simulation in Engineering Sciences, 2019, 6, .	1.7	5
128	Unified theory of structures based on micropolar elasticity. Meccanica, 2019, 54, 1785-1800.	2.0	11
129	Hygro-thermo-mechanical modelling of multilayered plates: Hybrid composite laminates, fibre metal laminates and sandwich plates. Composites Part B: Engineering, 2019, 177, 107388.	12.0	28
130	Computationally Efficient Concurrent Multiscale Framework for the Nonlinear Analysis of Composite Structures. AIAA Journal, 2019, 57, 4029-4041.	2.6	19
131	Three-dimensional vibrations of multilayered hollow spheres submerged in a complex fluid. Journal of Fluid Mechanics, 2019, 879, 682-715.	3.4	9
132	Electrostatically tunable small-amplitude free vibrations of pressurized electro-active spherical balloons. International Journal of Non-Linear Mechanics, 2019, 117, 103237.	2.6	22
133	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
134	Multiscale CUF-FE2 nonlinear analysis of composite beam structures. Computers and Structures, 2019, 221, 28-43.	4.4	25
135	Higher-order structural theories for transient analysis of multi-mode Lamb waves with applications to damage detection. Journal of Sound and Vibration, 2019, 457, 139-155.	3.9	15
136	Free vibration analysis of variable angle-tow composite wing structures. Aerospace Science and Technology, 2019, 92, 114-125.	4.8	30
137	Analysis of variable angle tow composites structures using variable kinematic models. Composites Part B: Engineering, 2019, 171, 272-283.	12.0	36
138	Multidimensional Models for Double-Swept Helicopter Blades. AIAA Journal, 2019, 57, 2609-2616.	2.6	7
139	A global/local approach based on CUF for the accurate and efficient analysis of metallic and composite structures. Engineering Structures, 2019, 188, 188-201.	5.3	17
140	Three-dimensional exact hygro-thermo-elastic solutions for multilayered plates: Composite laminates, fibre metal laminates and sandwich plates. Composite Structures, 2019, 216, 260-278.	5.8	35
141	A Node-Dependent Kinematic Approach for Rotordynamics Problems. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	1.1	4
142	Free-edge stress fields in generic laminated composites via higher-order kinematics. Composites Part B: Engineering, 2019, 168, 375-386.	12.0	21
143	Variable Kinematic Shell Formulations Accounting for Multi-field Effects for the Analysis of Multi-layered Structures. PoliTO Springer Series, 2019, , 13-27.	0.5	0
144	On the Effectiveness of Higher-Order One-Dimensional Models for Physically Nonlinear Problems. PoliTO Springer Series, 2019, , 67-81.	0.5	2

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145	High-Fidelity Vibration Analysis of Tapered Swept Tailored Composite Wing Boxes. Journal of Aircraft, 2019, 56, 842-846.	2.4	0
146	Multiscale Nonlinear Analysis of Beam Structures by Means of the Carrera Unified Formulation. PoliTO Springer Series, 2019, , 47-63.	0.5	2
147	Accurate stress fields of post-buckled laminated composite beams accounting for various kinematics. International Journal of Non-Linear Mechanics, 2019, 111, 60-71.	2.6	30
148	On the mitigation of shear locking in laminated plates through p-version refinement. Computers and Structures, 2019, 225, 106121.	4.4	5
149	An adaptable refinement approach for shell finite element models based on node-dependent kinematics. Composite Structures, 2019, 210, 1-19.	5.8	38
150	Finite beam elements based on Legendre polynomial expansions and node-dependent kinematics for the global-local analysis of composite structures. European Journal of Mechanics, A/Solids, 2019, 74, 112-123.	3.7	12
151	A variable ESL/LW kinematic plate formulation for free-vibration thermoelastic analysis of laminated structures. Journal of Thermal Stresses, 2019, 42, 452-474.	2.0	26
152	Simulation of Lamb waves via refined FE models with SHM applications. , 2019, , .		0
153	Global/local analysis of free-edge stresses in composite laminates. , 2019, , .		0
154	Best Theory Diagrams for Shell Finite Elements. , 2019, , .		1
155	MITC9 Shell elements based on RMVT and CUF for the analysis of laminated composite plates and shells. Composite Structures, 2019, 209, 383-390.	5.8	10
156	A static analysis of three-dimensional sandwich beam structures by hierarchical finite elements modelling. Journal of Sandwich Structures and Materials, 2019, 21, 2382-2410.	3.5	6
157	Dynamic response of laminated and sandwich composite structures via 1D models based on Chebyshev polynomials. Journal of Sandwich Structures and Materials, 2019, 21, 1428-1444.	3.5	10
158	Elastoplastic analysis of compact and thin-walled structures using classical and refined beam finite element models. Mechanics of Advanced Materials and Structures, 2019, 26, 274-286.	2.6	30
159	Best Structural Theories for Free Vibrations of Sandwich Composites via Machine Learning. , 2019, , .		2
160	Three-Dimensional Solutions for Rotor Blades Using High-Order Geometrical Nonlinear Beam Finite Elements. Journal of the American Helicopter Society, 2019, 64, 1-10.	0.8	7
161	Three-dimensional stress analysis for beam-like structures using Serendipity Lagrange shape functions. International Journal of Solids and Structures, 2018, 141-142, 279-296.	2.7	29
162	Exact solutions for the macro-, meso- and micro-scale analysis of composite laminates and sandwich structures. Journal of Composite Materials, 2018, 52, 3109-3124.	2.4	14

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163	Finite element models with node-dependent kinematics for the analysis of composite beam structures. Composites Part B: Engineering, 2018, 132, 35-48.	12.0	29
164	Free vibration analysis of locally damaged aerospace tapered composite structures using component-wise models. Composite Structures, 2018, 192, 38-51.	5.8	18
165	Locking-free curved elements with refined kinematics for the analysis of composite structures. Computer Methods in Applied Mechanics and Engineering, 2018, 337, 481-500.	6.6	15
166	Use of higher-order Legendre polynomials for multilayered plate elements with node-dependent kinematics. Composite Structures, 2018, 202, 222-232.	5.8	23
167	Electro-mechanical analysis of composite and sandwich multilayered structures by shell elements with node-dependent kinematics. International Journal of Smart and Nano Materials, 2018, 9, 1-33.	4.2	36
168	Component-wise analysis of laminated structures by hierarchical refined models with mapping features and enhanced accuracy at layer to fiber-matrix scales. Mechanics of Advanced Materials and Structures, 2018, 25, 1224-1238.	2.6	6
169	3D dynamic coupled thermoelastic solution for constant thickness disks using refined 1D finite element models. Applied Mathematical Modelling, 2018, 60, 273-285.	4.2	12
170	A Method of Panel Flutter Suppression and Elimination for Aeroelastic Structures in Supersonic Airflow. Journal of Vibration and Acoustics, Transactions of the ASME, 2018, 140, .	1.6	10
171	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
172	Unified formulation of geometrically nonlinear refined beam theories. Mechanics of Advanced Materials and Structures, 2018, 25, 15-31.	2.6	128
173	Free-vibration analysis of space vehicle structures made by composite materials. Composite Structures, 2018, 183, 53-62.	5.8	4
174	Refined finite element solutions for anisotropic laminated plates. Composite Structures, 2018, 183, 63-76.	5.8	38
175	Numerical method for nonlinear complex eigenvalues problems depending on two parameters: Application to three-layered viscoelastic composite structures. Mechanics of Advanced Materials and Structures, 2018, 25, 1361-1373.	2.6	9
176	Analysis of tapered composite structures using a refined beam theory. Composite Structures, 2018, 183, 42-52.	5.8	17
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