Al AraÃºjo

List of Publications by Year
in descending order

68 papers	2,785 citations	218677 26 h-index	175258 52 g-index
72 all docs	72 docs citations	72 times ranked	2199 citing authors

#	Article	IF	Citations
1	Layerwise electro-elastic user-elements in Abaqus for static and free vibration analysis of piezoelectric composite plates. Mechanics of Advanced Materials and Structures, 2022, 29, 3109-3121.	2.6	6
2	Implicit non-ordinary state-based peridynamics model for linear piezoelectricity. Mechanics of Advanced Materials and Structures, 2022, 29, 7329-7350.	2.6	6
3	Free vibrations analysis of composite and hybrid axisymmetric shells. Composite Structures, 2022, 286, 115267.	5.8	0
4	On the role of bond-associated stabilization and discretization on deformation and fracture in non-ordinary state-based peridynamics. Engineering Fracture Mechanics, 2022, 270, 108557.	4.3	7
5	Optimization of a composite impact attenuator for a formula student car. Mechanics of Advanced Materials and Structures, 2021, 28, 1858-1868.	2.6	2
6	Mechanical and thermal buckling of functionally graded axisymmetric shells. Composite Structures, 2021, 261, 113318.	5.8	6
7	Implementation of a PID controller in ANSYS^{Â©} for noise reduction applications. Mechanics of Advanced Materials and Structures, 2021, 28, 1579-1587.	2.6	4
8	Multiobjective optimization for vibration reduction in composite plate structures using constrained layer damping. Computers and Structures, 2020, 232, 105810.	4.4	29
9	Optimization and modelling methodologies for electro-viscoelastic sandwich design for noise reduction. Composite Structures, 2020, 235, 111778.	5.8	8
10	Buckling behavior of composite and functionally graded material plates. European Journal of Mechanics, A/Solids, 2020, 80, 103921.	3.7	19
11	Optimization of a thin-walled composite crash absorber. Thin-Walled Structures, 2020, 155, 106826.	5.3	8
12	Optimal distribution of active piezoelectric elements for noise attenuation in sandwich panels. International Journal of Smart and Nano Materials, 2020, 11, 400-416.	4.2	5
13	Multiobjective optimization solutions for noise reduction in composite sandwich panels using active control. Composite Structures, 2020, 247, 112440.	5.8	13
14	Optimal passive shunted damping configurations for noise reduction in sandwich panels. JVC/Journal of Vibration and Control, 2020, 26, 1110-1118.	2.6	13
15	Vibrations of functionally graded material axisymmetric shells. Composite Structures, 2020, 248, 112489.	5.8	4
16	Deformations and stresses of multilayered plates with embedded functionally graded material layers using a layerwise mixed model. Composites Part B: Engineering, 2019, 156, 274-291.	12.0	22
17	Multiobjective optimization of functionally graded material plates with thermo-mechanical loading. Composite Structures, 2019, 207, 845-857.	5.8	26
18	Design and multi-objective optimization of a composite impact attenuator for a Formula Student car. , 2019, , 498-503.		1

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19	Material distribution and sizing optimization of functionally graded plate-shell structures. Composites Part B: Engineering, 2018, 142, 263-272.	12.0	56
20	Active-passive damping in functionally graded sandwich plate/shell structures. Composite Structures, 2018, 202, 324-332.	5.8	23
21	Inverse characterization of vegetable fibre-reinforced composites exposed to environmental degradation. Composite Structures, 2018, 189, 529-544.	5.8	19
22	Buckling and nonlinear response of functionally graded plates under thermo-mechanical loading. Composite Structures, 2018, 202, 719-730.	5.8	29
23	Vibration analysis of functionally graded material sandwich structures with passive damping. Composite Structures, 2018, 183, 407-415.	5.8	29
24	Multiobjective optimization of ceramic-metal functionally graded plates using a higher order model. Composite Structures, 2018, 183, 146-160.	5.8	41
25	Multiobjective optimization of constrained layer damping treatments in composite plate structures. Mechanics of Advanced Materials and Structures, 2017, 24, 427-436.	2.6	21
26	Influence of zig-zag and warping effects on buckling of functionally graded sandwich plates according to sinusoidal shear deformation theories. Mechanics of Advanced Materials and Structures, 2017, 24, 360-376.	2.6	36
27	Tenth International Conference on Composite Structures and Technology (ICCST/10): In honor of the 70th anniversary of Professor Carlos Alberto Mota Soares. Mechanics of Advanced Materials and Structures, 2017, 24, 359-359.	2.6	0
28	Benchmark exact free vibration solutions for multilayered piezoelectric composite plates. Composite Structures, 2017, 182, 598-605.	5.8	21
29	Active vibration attenuation in viscoelastic laminated composite panels using multiobjective optimization. Composites Part B: Engineering, 2017, 128, 53-66.	12.0	25
30	Multiobjective design optimization of laminated composite plates with piezoelectric layers. Composite Structures, 2017, 169, 10-20.	5.8	17
31	The analysis of laminated plates using distinct advanced discretization meshless techniques. Composite Structures, 2016, 143, 165-179.	5.8	57
32	Selective laser melting (SLM) and topology optimization for lighter aerospace componentes. Procedia Structural Integrity, 2016, 1, 289-296.	0.8	149
33	Geometrically nonlinear analysis of sandwich structures. Composite Structures, 2016, 156, 135-144.	5.8	10
34	Vibration analysis of laminated soft core sandwich plates with piezoelectric sensors and actuators. Composite Structures, 2016, 151, 91-98.	5.8	53
35	Material and Geometric Nonlinear Analysis of Functionally Graded Plate-Shell Type Structures. Applied Composite Materials, 2016, 23, 537-554.	2.5	14
36	Buckling and geometrically nonlinear analysis of sandwich structures. International Journal of Mechanical Sciences, 2015, 92, 154-161.	6.7	22

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37	Multiobjective design of viscoelastic laminated composite sandwich panels. Composites Part B: Engineering, 2015, 77, 391-401.	12.0	67
38	Multiobjective optimization of viscoelastic laminated sandwich structures using the Direct MultiSearch method. Computers and Structures, 2015, 147, 229-235.	4.4	32
39	Finite element model for damping optimization of viscoelastic sandwich structures. Advances in Engineering Software, 2013, 66, 34-39.	3.8	44
40	Optimal design for active damping in sandwich structures using the Direct MultiSearch method. Composite Structures, 2013, 105, 29-34.	5.8	25
41	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
42	Green composites: A review of adequate materials for automotive applications. Composites Part B: Engineering, 2013, 44, 120-127.	12.0	894
43	Damping optimisation of hybrid activeâ€“passive sandwich composite structures. Advances in Engineering Software, 2012, 46, 69-74.	3.8	21
44	A finite element model for the analysis of viscoelastic sandwich structures. Computers and Structures, 2011, 89, 1874-1881.	4.4	63
45	Analysis of Active-Passive Plate Structures Using a Simple and Efficient Finite Element Model. Mechanics of Advanced Materials and Structures, 2011, 18, 159-169.	2.6	33
46	Parameter Estimation in Hybrid Active-Passive Laminated Sandwich Composite Structures. , 2010, , .		0
47	A Viscoelastic Sandwich Finite Element Model for the Analysis of Passive, Active and Hybrid Structures. Applied Composite Materials, 2010, 17, 529-542.	2.5	38
48	Characterisation by Inverse Techniques of Elastic, Viscoelastic and Piezoelectric Properties of Anisotropic Sandwich Adaptive Structures. Applied Composite Materials, 2010, 17, 543-556.	2.5	10
49	Optimal design and parameter estimation of frequency dependent viscoelastic laminated sandwich composite plates. Composite Structures, 2010, 92, 2321-2327.	5.8	76
50	Finite Element Model for Hybrid Active-Passive Damping Analysis of Anisotropic Laminated Sandwich Structures. Journal of Sandwich Structures and Materials, 2010, 12, 397-419.	3.5	61
51	Visco-piezo-elastic parameter estimation in laminated plate structures. Inverse Problems in Science and Engineering, 2009, 17, 145-157.	1.2	7
52	Damping optimization of viscoelastic laminated sandwich composite structures. Structural and Multidisciplinary Optimization, 2009, 39, 569-579.	3.5	65
53	Estimation of piezoelastic and viscoelastic properties in laminated structures. Composite Structures, 2009, 87, 168-174.	5.8	38
54	Optimal design of active, passive, and hybrid sandwich structures. , 2008, , .		2

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55	Parameter estimation in active laminated plate structures. , 2007, , .		0
56	Parameter estimation in active plate structures using gradient optimisation and neural networks. Inverse Problems in Science and Engineering, 2006, 14, 483-493.	1.2	18
57	Parameter estimation in active plate structures. Computers and Structures, 2006, 84, 1471-1479.	4.4	33
58	Interior point algorithms for nonlinear constrained least squares problems. Inverse Problems in Science and Engineering, 2004, 12, 211-223.	1.2	12
59	Development of a finite element model for the identification of mechanical and piezoelectric properties through gradient optimisation and experimental vibration data. Composite Structures, 2002, 58, 307-318.	5.8	55
60	Combined numericalâ€“experimental model for the identification of mechanical properties of laminated structures. Composite Structures, 2000, 50, 363-372.	5.8	57
61	Characterization of material parameters of composite plate specimens using optimization and experimental vibrational data. Composites Part B: Engineering, 1996, 27, 185-191.	12.0	74
62	Identification of material properties of composite plate specimens. Composite Structures, 1993, 25, 277-285.	5.8	142
63	Identification of Mechanical Properties of Composite Plate Specimens using a Discrete Higher Order Displacement Model and Experimental Vibration Data. , 0, , .		1
64	Damping Optimisation of Sandwich Composite Structures. , 0, , .		0
65	Finite Element Model for Damping Optimization of Viscoelastic Sandwich Plate Structures. , 0, , .		0
66	A Finite Element for Bending Analysis of Sandwich Composite Beams. , 0, , .		0
67	A Finite Element Model for Analysis of Laminated Soft Core Sandwich Structures. , 0, , .		0
68	Damping Optimization of Viscoelastic Laminated Sandwich Structures using the Direct Multisearch Method. , 0, , .		0