

Al Arañjo

List of Publications by Year in descending order

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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	Green composites: A review of adequate materials for automotive applications. <i>Composites Part B: Engineering</i> , 2013, 44, 120-127.	12.0	894
2	Selective laser melting (SLM) and topology optimization for lighter aerospace componentes. <i>Procedia Structural Integrity</i> , 2016, 1, 289-296.	0.8	149
3	Identification of material properties of composite plate specimens. <i>Composite Structures</i> , 1993, 25, 277-285.	5.8	142
4	A finite element model using a unified formulation for the analysis of viscoelastic sandwich laminates. <i>Composites Part B: Engineering</i> , 2013, 45, 1258-1264.	12.0	114
5	Optimal design and parameter estimation of frequency dependent viscoelastic laminated sandwich composite plates. <i>Composite Structures</i> , 2010, 92, 2321-2327.	5.8	76
6	Characterization of material parameters of composite plate specimens using optimization and experimental vibrational data. <i>Composites Part B: Engineering</i> , 1996, 27, 185-191.	12.0	74
7	Multiobjective design of viscoelastic laminated composite sandwich panels. <i>Composites Part B: Engineering</i> , 2015, 77, 391-401.	12.0	67
8	Damping optimization of viscoelastic laminated sandwich composite structures. <i>Structural and Multidisciplinary Optimization</i> , 2009, 39, 569-579.	3.5	65
9	A finite element model for the analysis of viscoelastic sandwich structures. <i>Computers and Structures</i> , 2011, 89, 1874-1881.	4.4	63
10	Finite Element Model for Hybrid Active-Passive Damping Analysis of Anisotropic Laminated Sandwich Structures. <i>Journal of Sandwich Structures and Materials</i> , 2010, 12, 397-419.	3.5	61
11	Combined numerical“experimental model for the identification of mechanical properties of laminated structures. <i>Composite Structures</i> , 2000, 50, 363-372.	5.8	57
12	The analysis of laminated plates using distinct advanced discretization meshless techniques. <i>Composite Structures</i> , 2016, 143, 165-179.	5.8	57
13	Material distribution and sizing optimization of functionally graded plate-shell structures. <i>Composites Part B: Engineering</i> , 2018, 142, 263-272.	12.0	56
14	Development of a finite element model for the identification of mechanical and piezoelectric properties through gradient optimisation and experimental vibration data. <i>Composite Structures</i> , 2002, 58, 307-318.	5.8	55
15	Vibration analysis of laminated soft core sandwich plates with piezoelectric sensors and actuators. <i>Composite Structures</i> , 2016, 151, 91-98.	5.8	53
16	Finite element model for damping optimization of viscoelastic sandwich structures. <i>Advances in Engineering Software</i> , 2013, 66, 34-39.	3.8	44
17	Multiobjective optimization of ceramic-metal functionally graded plates using a higher order model. <i>Composite Structures</i> , 2018, 183, 146-160.	5.8	41
18	Estimation of piezoelectric and viscoelastic properties in laminated structures. <i>Composite Structures</i> , 2009, 87, 168-174.	5.8	38

#	ARTICLE	IF	CITATIONS
19	A Viscoelastic Sandwich Finite Element Model for the Analysis of Passive, Active and Hybrid Structures. <i>Applied Composite Materials</i> , 2010, 17, 529-542.	2.5	38
20	Influence of zig-zag and warping effects on buckling of functionally graded sandwich plates according to sinusoidal shear deformation theories. <i>Mechanics of Advanced Materials and Structures</i> , 2017, 24, 360-376.	2.6	36
21	Parameter estimation in active plate structures. <i>Computers and Structures</i> , 2006, 84, 1471-1479.	4.4	33
22	Analysis of Active-Passive Plate Structures Using a Simple and Efficient Finite Element Model. <i>Mechanics of Advanced Materials and Structures</i> , 2011, 18, 159-169.	2.6	33
23	Multiobjective optimization of viscoelastic laminated sandwich structures using the Direct MultiSearch method. <i>Computers and Structures</i> , 2015, 147, 229-235.	4.4	32
24	Buckling and nonlinear response of functionally graded plates under thermo-mechanical loading. <i>Composite Structures</i> , 2018, 202, 719-730.	5.8	29
25	Vibration analysis of functionally graded material sandwich structures with passive damping. <i>Composite Structures</i> , 2018, 183, 407-415.	5.8	29
26	Multiobjective optimization for vibration reduction in composite plate structures using constrained layer damping. <i>Computers and Structures</i> , 2020, 232, 105810.	4.4	29
27	Multiobjective optimization of functionally graded material plates with thermo-mechanical loading. <i>Composite Structures</i> , 2019, 207, 845-857.	5.8	26
28	Optimal design for active damping in sandwich structures using the Direct MultiSearch method. <i>Composite Structures</i> , 2013, 105, 29-34.	5.8	25
29	Active vibration attenuation in viscoelastic laminated composite panels using multiobjective optimization. <i>Composites Part B: Engineering</i> , 2017, 128, 53-66.	12.0	25
30	Active-passive damping in functionally graded sandwich plate/shell structures. <i>Composite Structures</i> , 2018, 202, 324-332.	5.8	23
31	Buckling and geometrically nonlinear analysis of sandwich structures. <i>International Journal of Mechanical Sciences</i> , 2015, 92, 154-161.	6.7	22
32	Deformations and stresses of multilayered plates with embedded functionally graded material layers using a layerwise mixed model. <i>Composites Part B: Engineering</i> , 2019, 156, 274-291.	12.0	22
33	Damping optimisation of hybrid active-passive sandwich composite structures. <i>Advances in Engineering Software</i> , 2012, 46, 69-74.	3.8	21
34	Multiobjective optimization of constrained layer damping treatments in composite plate structures. <i>Mechanics of Advanced Materials and Structures</i> , 2017, 24, 427-436.	2.6	21
35	Benchmark exact free vibration solutions for multilayered piezoelectric composite plates. <i>Composite Structures</i> , 2017, 182, 598-605.	5.8	21
36	Inverse characterization of vegetable fibre-reinforced composites exposed to environmental degradation. <i>Composite Structures</i> , 2018, 189, 529-544.	5.8	19

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37	Buckling behavior of composite and functionally graded material plates. <i>European Journal of Mechanics, A/Solids</i> , 2020, 80, 103921.	3.7	19
38	Parameter estimation in active plate structures using gradient optimisation and neural networks. <i>Inverse Problems in Science and Engineering</i> , 2006, 14, 483-493.	1.2	18
39	Multiobjective design optimization of laminated composite plates with piezoelectric layers. <i>Composite Structures</i> , 2017, 169, 10-20.	5.8	17
40	Material and Geometric Nonlinear Analysis of Functionally Graded Plate-Shell Type Structures. <i>Applied Composite Materials</i> , 2016, 23, 537-554.	2.5	14
41	Multiobjective optimization solutions for noise reduction in composite sandwich panels using active control. <i>Composite Structures</i> , 2020, 247, 112440.	5.8	13
42	Optimal passive shunted damping configurations for noise reduction in sandwich panels. <i>JVC/Journal of Vibration and Control</i> , 2020, 26, 1110-1118.	2.6	13
43	Interior point algorithms for nonlinear constrained least squares problems. <i>Inverse Problems in Science and Engineering</i> , 2004, 12, 211-223.	1.2	12
44	Characterisation by Inverse Techniques of Elastic, Viscoelastic and Piezoelectric Properties of Anisotropic Sandwich Adaptive Structures. <i>Applied Composite Materials</i> , 2010, 17, 543-556.	2.5	10
45	Geometrically nonlinear analysis of sandwich structures. <i>Composite Structures</i> , 2016, 156, 135-144.	5.8	10
46	Optimization and modelling methodologies for electro-viscoelastic sandwich design for noise reduction. <i>Composite Structures</i> , 2020, 235, 111778.	5.8	8
47	Optimization of a thin-walled composite crash absorber. <i>Thin-Walled Structures</i> , 2020, 155, 106826.	5.3	8
48	Visco-piezo-elastic parameter estimation in laminated plate structures. <i>Inverse Problems in Science and Engineering</i> , 2009, 17, 145-157.	1.2	7
49	On the role of bond-associated stabilization and discretization on deformation and fracture in non-ordinary state-based peridynamics. <i>Engineering Fracture Mechanics</i> , 2022, 270, 108557.	4.3	7
50	Mechanical and thermal buckling of functionally graded axisymmetric shells. <i>Composite Structures</i> , 2021, 261, 113318.	5.8	6
51	Layerwise electro-elastic user-elements in Abaqus for static and free vibration analysis of piezoelectric composite plates. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 3109-3121.	2.6	6
52	Implicit non-ordinary state-based peridynamics model for linear piezoelectricity. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 7329-7350.	2.6	6
53	Optimal distribution of active piezoelectric elements for noise attenuation in sandwich panels. <i>International Journal of Smart and Nano Materials</i> , 2020, 11, 400-416.	4.2	5
54	Implementation of a PID controller in ANSYS® for noise reduction applications. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 1579-1587.	2.6	4

#	ARTICLE	IF	CITATIONS
55	Vibrations of functionally graded material axisymmetric shells. Composite Structures, 2020, 248, 112489.	5.8	4
56	Optimal design of active, passive, and hybrid sandwich structures. , 2008, , .		2
57	Optimization of a composite impact attenuator for a formula student car. Mechanics of Advanced Materials and Structures, 2021, 28, 1858-1868.	2.6	2
58	Identification of Mechanical Properties of Composite Plate Specimens using a Discrete Higher Order Displacement Model and Experimental Vibration Data. , 0, , .		1
59	Design and multi-objective optimization of a composite impact attenuator for a Formula Student car. , 2019, , 498-503.		1
60	Parameter estimation in active laminated plate structures. , 2007, , .		0
61	Parameter Estimation in Hybrid Active-Passive Laminated Sandwich Composite Structures. , 2010, , .		0
62	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
63	Free vibrations analysis of composite and hybrid axisymmetric shells. Composite Structures, 2022, 286, 115267.	5.8	0
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