

Alessandro Airoidi

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

818
citations

687363

13
h-index

501196

28
g-index

38
all docs

38
docs citations

38
times ranked

678
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of residual stresses and interface damage propagation in hybrid composite/metallic elements monitored through optical fiber sensors. <i>Aerospace Science and Technology</i> , 2022, 129, 107373.	4.8	7
2	Compression Behavior of EBM Printed Auxetic Chiral Structures. <i>Materials</i> , 2022, 15, 1520.	2.9	8
3	Experimental Identification of Frictional Effects on Interlaminar Toughness of Composite Laminates in 4ENF Test. <i>Experimental Mechanics</i> , 2022, 62, 1135-1145.	2.0	1
4	Thermomechanical response of out-of-autoclave infused carbon-phenolic laminates for rocket engine applications subjected to surface ablation. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 159, 107035.	7.6	9
5	Development of an actuated corrugated laminate for morphing structures. <i>Aeronautical Journal</i> , 2021, 125, 180-204.	1.6	4
6	A bi-phasic modelling approach for interlaminar and intralaminar damage in the matrix of composite laminates. <i>Composite Structures</i> , 2020, 234, 111747.	5.8	7
7	Foam-filled energy absorbers with auxetic behaviour for localized impacts. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 788, 139500.	5.6	48
8	Composite Corrugated Laminates for Morphing Applications. , 2018, , 247-276.		10
9	Design of a Leading Edge Morphing Based on Compliant Structures in the Framework of the CS2-AIRGREEN2 Project. , 2018, , .		5
10	Design and manufacturing of skins based on composite corrugated laminates for morphing aerodynamic surfaces. <i>Smart Materials and Structures</i> , 2017, 26, 045024.	3.5	12
11	Strain field reconstruction on composite spars based on the identification of equivalent load conditions. <i>Proceedings of SPIE</i> , 2017, , .	0.8	4
12	Chiral topologies for composite morphing structures “ Part I: Development of a chiral rib for deformable airfoils. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 1435-1445.	1.5	69
13	Chiral topologies for composite morphing structures “ Part II: Novel configurations and technological processes. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 1446-1454.	1.5	36
14	Fibre optics health monitoring for aeronautical applications. <i>Meccanica</i> , 2015, 50, 2547-2567.	2.0	14
15	Efficient modelling of forces and local strain evolution during delamination of composite laminates. <i>Composites Part B: Engineering</i> , 2015, 72, 137-149.	12.0	21
16	Reliability of strain monitoring of composite structures via the use of optical fiber ribbon tapes for structural health monitoring purposes. <i>Composite Structures</i> , 2015, 134, 762-771.	5.8	32
17	Design of a morphing actuated aileron with chiral composite internal structure. <i>Advances in Aircraft and Spacecraft Science</i> , 2014, 1, 331-351.	0.5	7
18	Development of a numerical mesoscale material model for short fibre-reinforced ceramics matrix composites. <i>Journal of Materials Science</i> , 2013, 48, 1646-1659.	3.7	3

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19	An efficient approach for modeling interlaminar damage in composite laminates with explicit finite element codes. <i>Journal of Reinforced Plastics and Composites</i> , 2013, 32, 1075-1091.	3.1	16
20	Design of a Morphing Airfoil with Composite Chiral Structure. <i>Journal of Aircraft</i> , 2012, 49, 1008-1019.	2.4	44
21	Identification of material parameters for modelling delamination in the presence of fibre bridging. <i>Composite Structures</i> , 2012, 94, 3240-3249.	5.8	52
22	Direct search of feasible region and application to a crashworthy helicopter seat. <i>Structural and Multidisciplinary Optimization</i> , 2012, 45, 875-887.	3.5	3
23	Design of a Motorcycle Composite Swing-Arm by Means of Multi-objective Optimisation. <i>Applied Composite Materials</i> , 2012, 19, 599-618.	2.5	10
24	Failure and energy absorption of plastic and composite chiral honeycombs. <i>WIT Transactions on the Built Environment</i> , 2012, , .	0.0	11
25	Modelling competitive delamination and debonding phenomena in composite T-Joints. <i>Procedia Engineering</i> , 2011, 10, 3483-3489.	1.2	19
26	Characterization of the interface between composites and embedded Fiber Optic sensors or NiTiNOL wires. <i>Procedia Engineering</i> , 2011, 10, 3490-3496.	1.2	8
27	Smart structures for deformable mirrors actuated by piezocomposites. <i>Proceedings of SPIE</i> , 2010, , .	0.8	1
28	Composite chiral structures for morphing airfoils: Numerical analyses and development of a manufacturing process. <i>Composites Part B: Engineering</i> , 2010, 41, 133-147.	12.0	147
29	Application of an iterative global approximation technique to structural optimizations. <i>Optimization and Engineering</i> , 2009, 10, 109-132.	2.4	4
30	Carbon Fiber Reinforced Smart Laminates with Embedded SMA Actuatorsâ€™Part I: Embedding Techniques and Interface Analysis. <i>Journal of Materials Engineering and Performance</i> , 2009, 18, 664-671.	2.5	26
31	Carbon Fiber-Reinforced Smart Laminates with Embedded SMA Actuatorsâ€™Part II: Numerical Models and Empirical Correlations. <i>Journal of Materials Engineering and Performance</i> , 2009, 18, 672-678.	2.5	9
32	Shear post-buckling behavior of Glare modeling fiberglass damage. , 2006, , .		2
33	Design of Skid Landing Gears by Means of Multibody Optimization. <i>Journal of Aircraft</i> , 2006, 43, 555-563.	2.4	5
34	Modelling of impact forces and pressures in Lagrangian bird strike analyses. <i>International Journal of Impact Engineering</i> , 2006, 32, 1651-1677.	5.0	107
35	A design solution for a crashworthy landing gear with a new triggering mechanism for the plastic collapse of metallic tubes. <i>Aerospace Science and Technology</i> , 2005, 9, 445-455.	4.8	47