

Antonio Concilio

List of Publications by Year in descending order

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118
papers

1,243
citations

331670

21
h-index

454955

30
g-index

123
all docs

123
docs citations

123
times ranked

498
citing authors

#	ARTICLE	IF	CITATIONS
1	Landing gear hard impact: Preliminary study on optic monitoring system. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2023, 237, 4151-4162.	2.1	3
2	Morphing wings review: aims, challenges, and current open issues of a technology. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2023, 237, 4112-4130.	2.1	39
3	An Overview of Adaptive Structures Engineering Activities at CIRA. , 2022, , .		0
4	Laboratory characterization of a SMA based system for blade morphing. , 2022, , .		0
5	An Overview of the AG2 Project: Latest Achievements. , 2022, , .		1
6	Status and Perspectives of Commercial Aircraft Morphing. Biomimetics, 2022, 7, 11.	3.3	4
7	Morphing Wing Technologies within the Airgreen 2 Project. , 2022, , .		0
8	SMA actuator for helicopter blade twist. , 2022, , .		0
9	Understanding Shape Memory Alloy Torsional Actuators: From the Conceptual to the Preliminary Design. Actuators, 2022, 11, 81.	2.3	2
10	Whirl Tower Demonstration of an SMA Blade Twist System. Actuators, 2022, 11, 141.	2.3	6
11	De-Bonding Numerical Characterization and Detection in Aeronautic Multi-Element Spars. Sensors, 2022, 22, 4152.	3.8	6
12	Preliminary Assessment of an FBG-Based Landing Gear Weight on Wheel System. Actuators, 2022, 11, 191.	2.3	2
13	SARISTU: Adaptive Trailing Edge Device (ATED) design process review. Chinese Journal of Aeronautics, 2021, 34, 187-210.	5.3	22
14	Integrated Design of a Morphing Winglet for Active Load Control and Alleviation of Turboprop Regional Aircraft. Applied Sciences (Switzerland), 2021, 11, 2439.	2.5	24
15	Specific Modeling Issues on an Adaptive Winglet Skeleton. Applied Sciences (Switzerland), 2021, 11, 3565.	2.5	7
16	A Preliminary Assessment of an FBG-Based Hard Landing Monitoring System. Photonics, 2021, 8, 450.	2.0	6
17	Impact area and debonding line detection assessment by cross-correlation analysis and distributed sensing. Optical Fiber Technology, 2020, 58, 102245.	2.7	9
18	Shape memory alloys compact actuators for aerodynamic surfaces twisting. , 2020, , .		2

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19	Damage Detection of CFRP Stiffened Panels by Using Cross-Correlated Spatially Shifted Distributed Strain Sensors. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2662.	2.5	5
20	Shape Memory Polymer Composite Actuator: Modeling Approach for Preliminary Design and Validation. <i>Actuators</i> , 2019, 8, 51.	2.3	7
21	Aeroelastic Assessments and Functional Hazard Analysis of a Regional Aircraft Equipped with Morphing Winglets. <i>Aerospace</i> , 2019, 6, 104.	2.2	24
22	A shape memory alloy torsion actuator for static blade twist. <i>Journal of Intelligent Material Systems and Structures</i> , 2019, 30, 2605-2626.	2.5	21
23	A linear guide-based actuation concept for a novel morphing aileron. <i>Aeronautical Journal</i> , 2019, 123, 1075-1097.	1.6	1
24	A multi-scaled demonstrator for aircraft weight and balance measurements based on FBG sensors: Design rationale and experimental characterization. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 141, 113-123.	5.0	10
25	Static and Dynamic Performance of a Morphing Trailing Edge Concept with High-Damping Elastomeric Skin. <i>Aerospace</i> , 2019, 6, 22.	2.2	10
26	Stringer debonding edge detection employing fiber optics by combined distributed strain profile and wave scattering approaches for non-model based SHM. <i>Composite Structures</i> , 2019, 216, 58-66.	5.8	22
27	Aero-servo-elastic design of a morphing wing trailing edge system for enhanced cruise performance. <i>Aerospace Science and Technology</i> , 2019, 86, 215-235.	4.8	36
28	Effect of hinge elasticity on morphing winglet mechanical systems. , 2019, , .		2
29	Flutter analysis of a large civil aircraft in case of free-plays and internal failures of morphing wing flaps mechanical systems. , 2019, , .		2
30	Development of a conceptual demonstrator of a SMA-based Rotorcraft blade twist system. , 2019, , .		1
31	A fiber optic sensors system for load monitoring on aircraft landing gears. , 2019, , .		4
32	Numerical and experimental transition results evaluation for a morphing wing and aileron system. <i>Aeronautical Journal</i> , 2018, 122, 747-784.	1.6	35
33	Historical Background and Current Scenario. , 2018, , 3-84.		5
34	Stress Analysis of a Morphing System. , 2018, , 451-488.		1
35	An Adaptive Trailing Edge. , 2018, , 517-545.		2
36	Morphing Aileron. , 2018, , 547-582.		2

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37	On the Experimental Characterization of Morphing Structures. , 2018, , 683-712.		1
38	Skinâ€stringer debonding detection using distributed dispersion index features. Structural Health Monitoring, 2018, 17, 1245-1254.	7.5	13
39	Car Soundproof Improvement through an SMA Adaptive System. Actuators, 2018, 7, 88.	2.3	8
40	Preliminary Assessment of Morphing Winglet and Flap Tabs Influence on the Aeroelastic Stability of Next Generation Regional Aircraft. , 2018, , .		1
41	AIRGREEN2 - Clean Sky 2 Programme: Adaptive Wing Technology Maturation, Challenges and Perspectives. , 2018, , .		9
42	Numerical and experimental validation of a full scale servo-actuated morphing aileron model. Smart Materials and Structures, 2018, 27, 105034.	3.5	23
43	Load monitoring of aircraft landing gears using fiber optic sensors. Sensors and Actuators A: Physical, 2018, 281, 31-41.	4.1	27
44	Technological demonstration of an adaptive aileron system. , 2018, , .		4
45	Optimization design process of a morphing winglet. , 2018, , .		1
46	Aeroelastic stability analysis of a large civil aircraft equipped with morphing winglets and adaptive flap tabs. , 2018, , .		3
47	Sensitivity analysis of OFDR-based distributed sensing for flaws detection in representative coupon from filament wound motor vessel. , 2018, , .		4
48	Numerical and Experimental Testing of a Morphing Upper Surface Wing Equipped with Conventional and Morphing Ailerons. , 2017, , .		2
49	A load identification sensor based on distributed fiber optic technology. Proceedings of SPIE, 2017, , .	0.8	0
50	Aeroelastic analysis of an adaptive trailing edge with a smart elastic skin. AIP Conference Proceedings, 2017, , .	0.4	3
51	Exploitation of Adaptive Trailing Edge Architectures to Small Aircraft. , 2017, , .		0
52	Circular Patch Sensor Based on Distributed Fiber Optic Technology for Tensile and Bending Loads Identification. IEEE Sensors Journal, 2017, 17, 5908-5914.	4.7	3
53	Design and integration sensitivity of a morphing trailing edge on a reference airfoil: The effect on high-altitude long-endurance aircraft performance. Journal of Intelligent Material Systems and Structures, 2017, 28, 2933-2946.	2.5	24
54	Design approach of a large strain sensor based on nanoparticle technology: A highly-integrable sensor for Morphing applications including SHM & shape reconstruction. , 2017, , .		1

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55	Ring patch sensor based on FBG array for normal and bending load recognition. , 2017, , .		0
56	SMA-Based System for Environmental Sensors Released from an Unmanned Aerial Vehicle. Aerospace, 2017, 4, 4.	2.2	5
57	Control System Design for a Morphing Wing Trailing Edge. Computational Methods in Applied Sciences (Springer), 2017, , 175-193.	0.3	2
58	Preliminary Design Process for an Adaptive Winglet. International Journal of Mechanical Engineering and Robotics Research, 2017, 6, 83-92.	1.0	11
59	A new semi-active suspension system for racing vehicles. FME Transactions, 2017, 45, 578-584.	1.4	33
60	Morphing Technologies: Adaptive Ailerons. , 2016, , .		4
61	A Shape Memory Alloy Application for Compact Unmanned Aerial Vehicles. Aerospace, 2016, 3, 16.	2.2	14
62	Distributed electromechanical actuation system design for a morphing trailing edge wing. Proceedings of SPIE, 2016, , .	0.8	11
63	Numerical design of an adaptive aileron. , 2016, , .		6
64	Shape memory polymeric composites sensing by optic fibre Bragg gratings: A very first approach. AIP Conference Proceedings, 2016, , .	0.4	3
65	KRISTINA: Kinematic rib-based structural system for innovative adaptive trailing edge. Proceedings of SPIE, 2016, , .	0.8	16
66	Structural Design of an Adaptive Wing Trailing Edge for Enhanced Cruise Performance. , 2016, , .		17
67	Safety and Reliability Aspects of an Adaptive Trailing Edge Device (ATED). , 2016, , .		16
68	Primary Structural Components Characterization of an Adaptive Trailing Edge Device (ATED). , 2016, , .		3
69	Manufacturing and Testing of Smart Morphing SARISTU Trailing Edge. , 2016, , 199-215.		5
70	Shape Sensing for Morphing Structures Using Fiber Bragg Grating Technology. , 2016, , 471-491.		4
71	Structural Design of an Adaptive Wing Trailing Edge for Large Aeroplanes. , 2016, , 159-170.		4
72	Distributed Actuation and Control of a Morphing Wing Trailing Edge. , 2016, , 171-186.		8

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73	A single slotted morphing flap based on SMA technology. Smart Structures and Systems, 2016, 17, 819-835.	1.9	14
74	AN ADAPTIVE TRAILING EDGE FOR LARGE COMMERCIAL AIRCRAFT. , 2016, , .		1
75	FBG based transducers for morphing applications. , 2015, , .		0
76	Actuation System Design for a Morphing Aileron. Applied Mechanics and Materials, 2015, 798, 582-588.	0.2	9
77	Monito-Ring: An original fiber optic system for morphing application. Journal of Intelligent Material Systems and Structures, 2015, 26, 2463-2476.	2.5	8
78	Historical Background and Future Perspectives. , 2015, , 3-30.		8
79	Hinge rotation of a morphing rib using FBG strain sensors. Smart Structures and Systems, 2015, 15, 1393-1410.	1.9	3
80	An original device for train bogie energy harvesting: a real application scenario. Smart Structures and Systems, 2015, 16, 383-399.	1.9	11
81	A SMA-based morphing flap: conceptual and advanced design. Smart Structures and Systems, 2015, 16, 555-577.	1.9	9
82	Influence of structural architecture on linear shape memory alloy actuator performance and morphing system layout optimisation. Journal of Intelligent Material Systems and Structures, 2014, 25, 2037-2051.	2.5	9
83	Validation of a smart structural concept for wing-flap camber morphing. Smart Structures and Systems, 2014, 14, 659-678.	1.9	43
84	Actuation System Design for a Morphing Wing Trailing Edge. Recent Patents on Mechanical Engineering, 2014, 7, 138-148.	0.3	44
85	Estimated performance of an adaptive trailing-edge device aimed at reducing fuel consumption on a medium-size aircraft. Proceedings of SPIE, 2013, , .	0.8	23
86	Piezoelectric and electromagnetic solutions aimed at realizing an active Gurney flap. Journal of Intelligent Material Systems and Structures, 2013, 24, 924-935.	2.5	2
87	Actuation needs for an adaptive trailing edge device aimed at reducing fuel consumption on a regional aircraft. Proceedings of SPIE, 2013, , .	0.8	1
88	FBG sensor system for trailing edge chord-wise hinge rotation measurements. , 2013, , .		3
89	An adaptive control system for wing TE shape control. Proceedings of SPIE, 2013, , .	0.8	17
90	Optimization and integration of shape memory alloy (SMA)-based elastic actuators within a morphing flap architecture. Journal of Intelligent Material Systems and Structures, 2012, 23, 381-396.	2.5	40

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91	Quadratic nonlinear optical and preliminary piezoelectric investigation of crosslinked samples obtained from a liquid chromophore. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 650-655.	2.1	13
92	Airfoil Structural Morphing Based on S.M.A. Actuator Series: Numerical and Experimental Studies. <i>Journal of Intelligent Material Systems and Structures</i> , 2011, 22, 987-1004.	2.5	73
93	Design and Functional Test of a Morphing High-Lift Device for a Regional Aircraft. <i>Journal of Intelligent Material Systems and Structures</i> , 2011, 22, 1005-1023.	2.5	72
94	Technological Solutions for Realising an Active Gurney Flap for Green Rotorcraft Applications, Based on Piezoelectrics and Electromagnets. , 2011, , .		0
95	Optimisation of an SMA-Based Morphing Architecture. , 2010, , .		0
96	Multi-tone Switching Shunt Control by a PZT Network Embedded into a Fiberglass Panel: Design, Manufacture, and Test. <i>Journal of Intelligent Material Systems and Structures</i> , 2010, 21, 437-451.	2.5	5
97	Design of an MR Based on Device for the Adaptive Stiffness Control of Tail Shafts. <i>Journal of Intelligent Material Systems and Structures</i> , 2009, 20, 837-848.	2.5	6
98	SMA Embedded Panel Optimized Through a Genetic Approach. <i>Journal of Intelligent Material Systems and Structures</i> , 2009, 20, 1529-1540.	2.5	5
99	Wing Shape Control through an SMA-Based Device. <i>Journal of Intelligent Material Systems and Structures</i> , 2009, 20, 283-296.	2.5	53
100	A Novel SMA-based Concept for Airfoil Structural Morphing. <i>Journal of Materials Engineering and Performance</i> , 2009, 18, 696-705.	2.5	62
101	A Survey of Structural Health Monitoring Research in Italy. , 2009, , .		1
102	Synchronized Switched Shunt Control Technique Applied on a Cantilevered Beam: Numerical and Experimental Investigations. <i>Journal of Intelligent Material Systems and Structures</i> , 2008, 19, 1089-1100.	2.5	7
103	Passengers' Comfort Modeling Inside Aircraft. <i>Journal of Aircraft</i> , 2008, 45, 2001-2008.	2.4	26
104	FE Modeling of an Innovative Vibration Control Shunt Technique. <i>Journal of Intelligent Material Systems and Structures</i> , 2008, 19, 875-887.	2.5	6
105	Airfoil Morphing Architecture Based on Shape Memory Alloys. , 2008, , .		9
106	Active vibration control using fiber Bragg grating sensors and piezoelectric actuators in co-located configuration. , 2007, , .		11
107	A Broadband Acoustic Feedback Control System on Confined Area on Board of Aircraft. , 2007, , .		0
108	Seismic protection of civil historical structures by MR dampers. , 2006, , .		0

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109	Feasibility study on rotorcraft blade morphing in hovering. , 2005, , .		1
110	An MRF-based device for the torque stiffness control of all movable vertical tails. , 2005, , .		0
111	SMA Based Adaptive Tuneable Dynamic Vibration Absorbers for Noise Radiated Control. , 2005, , .		1
112	<title>Active shape airfoil control through composite-piezoceramic actuators</title>. , 2001, 4327, 641.		8
113	Artificial neural network models to identify a comfort index for propeller and jet aircraft. , 2000, , .		0
114	<title>Architecture definition of a piezoceramic-based ANN system for multiple-tone vibration suppression</title>. , 1999, , .		1
115	Feed-forward adaptive system for vibration and sound radiation reduction phase I: architecture, definition, and specifications. , 1998, , .		0
116	Use of artificial neural networks as estimators and controllers. , 1996, , .		2
117	Preliminary design of an adaptive aileron for next generation regional aircraft. Journal of Theoretical and Applied Mechanics, 0, , 307.	0.5	15
118	Statistical Based Features Vector for Skin-stringer Debonding Detection. , 0, , .		0