

Gennaro Scarselli

List of Publications by Year in descending order

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52
papers

770
citations

430442

18
h-index

552369

26
g-index

53
all docs

53
docs citations

53
times ranked

585
citing authors

#	ARTICLE	IF	CITATIONS
1	Low energy actuation technique of bistable composites for aircraft morphing. <i>Aerospace Science and Technology</i> , 2018, 75, 35-46.	2.5	67
2	Adhesive joints with improved mechanical properties for aerospace applications. <i>International Journal of Adhesion and Adhesives</i> , 2017, 75, 174-180.	1.4	55
3	Interlaminar fracture toughness of aerospace-grade carbon fibre reinforced plastics interleaved with thermoplastic veils. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 128, 105642.	3.8	54
4	Improving the electrical conductivity and fracture toughness of carbon fibre/epoxy composites by interleaving MWCNT-doped thermoplastic veils. <i>Composites Science and Technology</i> , 2019, 182, 107775.	3.8	46
5	Mode-II fracture behaviour of aerospace-grade carbon fibre/epoxy composites interleaved with thermoplastic veils. <i>Composites Science and Technology</i> , 2020, 191, 108065.	3.8	43
6	A novel bistable energy harvesting concept. <i>Smart Materials and Structures</i> , 2016, 25, 055001.	1.8	41
7	On the generation of nonlinear damage resonance intermodulation for elastic wave spectroscopy. <i>Journal of the Acoustical Society of America</i> , 2017, 141, 2364-2374.	0.5	36
8	Nonlinear imaging of damage in composite structures using sparse ultrasonic sensor arrays. <i>Structural Control and Health Monitoring</i> , 2017, 24, e1911.	1.9	32
9	SHM of single lap adhesive joints using subharmonic frequencies. <i>Smart Materials and Structures</i> , 2017, 26, 105018.	1.8	28
10	Elastic waves interference for the analysis of disbonds in single lap joints. <i>Mechanical Systems and Signal Processing</i> , 2019, 128, 340-351.	4.4	27
11	Adhesion Improvement of Thermoplastics-Based Composites by Atmospheric Plasma and UV Treatments. <i>Applied Composite Materials</i> , 2021, 28, 71-89.	1.3	27
12	Nonlinear elastic wave tomography for the imaging of corrosion damage. <i>Ultrasonics</i> , 2015, 62, 147-155.	2.1	25
13	Rapid surface activation of carbon fibre reinforced PEEK and PPS composites by high-power UV-irradiation for the adhesive joining of dissimilar materials. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 137, 105976.	3.8	24
14	Significantly enhanced structural integrity of adhesively bonded PPS and PEEK composite joints by rapidly UV-irradiating the substrates. <i>Composites Science and Technology</i> , 2020, 199, 108358.	3.8	21
15	Nonlinear Imaging Method Using Second Order Phase Symmetry Analysis and Inverse Filtering. <i>Journal of Nondestructive Evaluation</i> , 2015, 34, 1.	1.1	20
16	Structural behaviour modelling of bolted joints in composite laminates subjected to cyclic loading. <i>Aerospace Science and Technology</i> , 2015, 43, 89-95.	2.5	19
17	Non-linear methods based on ultrasonic waves to analyse disbonds in single lap joints. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2017, 231, 3066-3076.	1.1	18
18	Finite difference model of wave motion for structural health monitoring of single lap joints. <i>International Journal of Solids and Structures</i> , 2019, 161, 219-227.	1.3	18

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19	Reduced-Order Short-Period Model of Flexible Aircraft. Journal of Guidance, Control, and Dynamics, 2017, 40, 2017-2029.	1.6	17
20	Subharmonics and beating: A new approach to Local Defect Resonance for bonded single lap joints. Journal of Sound and Vibration, 2019, 456, 289-305.	2.1	17
21	Non-linear Lamb Waves for Locating Defects in Single-Lap Joints. Frontiers in Built Environment, 2020, 6, .	1.2	15
22	An Analytical Model for Defect Depth Estimation Using Pulsed Thermography. Experimental Mechanics, 2016, 56, 1111-1122.	1.1	14
23	Analysis of debonding in single lap joints based on employment of ultrasounds. Proceedings of SPIE, 2017, , .	0.8	9
24	Co-curing bonding of carbon fibre/epoxy composite joints with excellent structure integrity using carbon fibre/PEEK tapes. Composites Science and Technology, 2022, 227, 109567.	3.8	9
25	Bioinspired twisted composites based on Bouligand structures. Proceedings of SPIE, 2016, , .	0.8	8
26	Active SHM for composite pipes using piezoelectric sensors. Materials Today: Proceedings, 2021, 34, 1-9.	0.9	8
27	Shear buckling of aerospace panels made by induction welded thermoplastic matrix composite elements. Polymer Composites, 2022, 43, 4544-4555.	2.3	8
28	Nonlinear damage detection in composite structures using bispectral analysis. Proceedings of SPIE, 2014, , .	0.8	7
29	Attitude dynamics and control of a large flexible space structure by means of a minimum complexity model. Acta Astronautica, 2022, 198, 124-134.	1.7	7
30	Numerical and experimental study of bistable plates for morphing structures. Proceedings of SPIE, 2017, , .	0.8	6
31	SHM of aerospace bonded structures with improved techniques based on NEWS. , 2018, , .		6
32	Sensitivity Investigation of Aircraft Engine Noise to Operational Parameters. , 2010, , .		4
33	Corrosion of stainless steel grades in molten NaOH/KOH eutectic at 250°C: AISI304 austenitic and 2205 duplex. Materials and Corrosion - Werkstoffe Und Korrosion, 2012, 63, n/a-n/a.	0.8	4
34	Non-destructive testing techniques based on nonlinear methods for assessment of debonding in single lap joints. Proceedings of SPIE, 2015, , .	0.8	4
35	Nonlinearities Associated with Impaired Sensors in a Typical SHM Experimental Set-Up. Electronics (Switzerland), 2018, 7, 303.	1.8	3
36	An innovative method based on nonlinear Lamb waves for locating disbands in Single-Lap joints. , 2019, , .		3

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37	Buckling Behavior of Poly-Phenylene-Sulfide/Carbon L-Shaped Stringers and a Stiffened Panel Obtained by Induction Welding. <i>Frontiers in Materials</i> , 2020, 7, .	1.2	3
38	Time-dependent shape of bistable unsymmetric carbon fibers-epoxy thin laminates. <i>Smart Materials and Structures</i> , 2021, 30, 035004.	1.8	3
39	Numerical simulation, experimental comparison with noise measurements and sound synthesis of airframe noise. , 2007, , .		2
40	Corrosion of stainless steel grades in H ₂ O/KOH 50% at 120°C: AISI304 austenitic and 2205 duplex. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2013, 64, 988-995.	0.8	2
41	Development and application of an in-flight Structural Health Monitoring system. <i>Proceedings of Meetings on Acoustics</i> , 2019, , .	0.3	2
42	Simulation and Test of Discrete Mobile Surfaces for a RC-Aircraft. <i>Aerospace</i> , 2019, 6, 122.	1.1	2
43	Stress relaxation in asymmetric bistable composites: Experiments and simulations. <i>Materials Today: Proceedings</i> , 2021, 34, 10-15.	0.9	2
44	Preliminary Optimization of the Sonic Boom Properties for Civil Supersonic Aircraft. <i>Journal of Aircraft</i> , 2013, 50, 1295-1299.	1.7	1
45	Thermomechanical analysis of riveted carbon fiber laminates for aerospace applications. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 2751-2763.	1.7	1
46	Mechanical characterization of bistable laminates for very small aircraft morphing applications. , 2018, , .		1
47	Mistuning Effects Evaluation on Turbomachine Dynamic Behaviour using Genetic Algorithms. <i>International Journal of Acoustics and Vibrations</i> , 2011, 16, .	0.3	1
48	Sonic Boom Minimization Through a Simplified Approach for the Preliminary Design of Civil Supersonic Aircraft. , 2010, , .		0
49	Modeling of thermal wave propagation in damaged composites with internal source. , 2015, , .		0
50	A novel nonlinear damage resonance intermodulation effect for structural health monitoring. , 2017, , .		0
51	Carrera unified formulation (CUF) for the analysis of disbonds in single lap joints (SLJ). , 2022, , .		0
52	Finite difference 3D model for structural health monitoring of single lap joints. , 2022, , .		0