

Francesco Marulo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59
papers

707
citations

15
h-index

25
g-index

64
ext. papers

820
ext. citations

2.6
avg, IF

4.15
L-index

#	Paper	IF	Citations
59	A review of the bird impact process and validation of the SPH impact model for aircraft structures. <i>Progress in Aerospace Sciences</i> , 2022 , 129, 100787	8.8	0
58	Review on the design of an aircraft crashworthy passenger seat. <i>Progress in Aerospace Sciences</i> , 2022 , 129, 100785	8.8	2
57	A versatile offset operator for the discrete observation of objects. <i>Journal of Sound and Vibration</i> , 2021 , 500, 116019	3.9	1
56	Experimental study of a virtual allowables approach for the design of composite aircraft structures. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021 , 235, 2529-2541	1.3	1
55	Experimental modal analysis and vibro-acoustic testing at leonardo laboratories. <i>Materials Today: Proceedings</i> , 2021 , 34, 24-30	1.4	
54	Tiltrotor Acoustic Data Acquisition and Analysis. <i>Aerotecnica Missili & Spazio</i> , 2021 , 100, 111-122	0.4	2
53	Characterization of Adhesives Bonding in Aircraft Structures. <i>Materials</i> , 2020 , 13,	3.5	2
52	Artificial neural network-based models for predicting the sound absorption coefficient of electrospun poly(vinyl pyrrolidone)/silica composite. <i>Applied Acoustics</i> , 2020 , 169, 107472	3.1	24
51	Noise, Emissions and Costs trade factors for regional jet platforms using a new software for aircraft preliminary design 2020 ,		1
50	Despite the Virus, the Special Issue for the 16th Pegasus Student Conference. <i>Aerotecnica Missili & Spazio</i> , 2020 , 99, 253-253	0.4	0
49	Multi-Input Multi-Output Swept Sine Control: A Steepest Descent Solution for a Challenging Problem. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2020 , 83-94	0.3	1
48	Development of a steepest-descent control solution for Multi-Input Multi-Output swept sine testing in a virtual shaker environment. <i>Journal of Physics: Conference Series</i> , 2019 , 1264, 012002	0.3	1
47	Development of a Head Injury Criteria-Compliant Aircraft Seat by Design of Experiments. <i>Aerospace</i> , 2019 , 6, 95	2.5	2
46	Mixed FEMB methodology for the evaluation of passive safety performances of aeronautical seats. <i>International Journal of Crashworthiness</i> , 2019 , 24, 314-325	1	12
45	Analysis of Integrated Fuselage Composite Seat for Small Aircraft in Crashworthiness Applications. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 4856-4862	1.6	
44	Water Resistant Self-Extinguishing Low Frequency Soundproofing Polyvinylpyrrolidone Based Electrospun Blankets. <i>Polymers</i> , 2019 , 11,	4.5	15
43	Analysis of the Impact Dynamics of Shape Memory Alloy Hybrid Composites for Advanced Applications. <i>Materials</i> , 2019 , 12,	3.5	26

42	A minimum drives automatic target definition procedure for multi-axis random control testing. <i>Mechanical Systems and Signal Processing</i> , 2018 , 107, 452-468	7.8	15
41	Advances in crash dynamics for aircraft safety. <i>Progress in Aerospace Sciences</i> , 2018 , 98, 106-123	8.8	32
40	Development of a multibody system for crashworthiness certification of aircraft seat. <i>Multibody System Dynamics</i> , 2018 , 44, 191-221	2.8	14
39	Bird strike assessment for a composite wing flap. <i>International Journal of Crashworthiness</i> , 2018 , 23, 219-235		20
38	NiTi SMA Wires Coupled with Kevlar Fabric: a Real Application of an Innovative Aircraft LE Slat System in SMAHC Material. <i>Applied Composite Materials</i> , 2018 , 25, 269-298	2	4
37	Non Monotonous Effects of Noncovalently Functionalized Graphene Addition on the Structure and Sound Absorption Properties of Polyvinylpyrrolidone (1300 kDa) Electrospun Mats. <i>Materials</i> , 2018 , 12,	3.5	12
36	Occupants Injury during a Drop Test of an Advanced Composite Fuselage Section. <i>Aerotecnica Missili & Spazio</i> , 2018 , 97, 129-134	0.4	0
35	First Steps Towards a Digital Plane Wave Superposition Method for Vibroacoustic Problems. <i>Aerotecnica Missili & Spazio</i> , 2018 , 97, 13-18	0.4	
34	Light Electrospun Polyvinylpyrrolidone Blanket for Low Frequencies Sound Absorption. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2018 , 36, 1368-1374	3.5	17
33	Numerical-Experimental Assessment of a Hybrid FE-MB Model of an Aircraft Seat Sled Test. <i>International Journal of Aerospace Engineering</i> , 2018 , 2018, 1-7	0.9	6
32	Best Practices for Using Order-Based Modal Analysis for Industrial Applications. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 69-84	0.3	2
31	Analyses of Target Definition Processes for MIMO Random Vibration Control Tests. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 135-148	0.3	4
30	Structural Health Monitoring strategies based on the estimation of modal parameters. <i>Procedia Engineering</i> , 2017 , 199, 3182-3187		4
29	Numerical simulations and experimental experiences of impact on composite structures 2017 , 85-125		2
28	Probabilistic analysis and experimental results of sound transmission loss of composite panels. <i>Polymer Engineering and Science</i> , 2017 , 57, 722-730	2.3	3
27	Gear Dynamics Characterization by Using Order-Based Modal Analysis. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 387-404	0.3	
26	Design considerations on energy storage system for electric aircraft propulsion 2016 ,		2
25	Design of Composite Stanchions for the Cargo Subfloor Structure of a Civil Aircraft. <i>Procedia Engineering</i> , 2016 , 167, 88-96		9

24	Fuselage Crashworthiness Lower Lobe Dynamic Test. <i>Procedia Engineering</i> , 2016 , 167, 120-128		4
23	Damage detection in wind turbine blades by using operational modal analysis. <i>Structural Health Monitoring</i> , 2016 , 15, 289-301	4-4	24
22	Structural Health Monitoring challenges on the 10-MW offshore wind turbine model. <i>Journal of Physics: Conference Series</i> , 2015 , 628, 012081	0-3	3
21	Dynamic Characterization of Wind Turbine Gearboxes in Operational Conditions. <i>Mechanisms and Machine Science</i> , 2015 , 1357-1368	0-3	3
20	Innovative Anti Crash Absorber for a Crashworthy Landing Gear. <i>Applied Composite Materials</i> , 2014 , 21, 483-494	2	11
19	Partial Modeling of Aircraft Fuselage During an Emergency Crash Landing. <i>Procedia Engineering</i> , 2014 , 88, 26-33		3
18	Design criteria for birdstrike damage on windshield. <i>Advances in Aircraft and Spacecraft Science</i> , 2014 , 1, 233-251		7
17	Certification by birdstrike analysis on C27J fullscale ribless composite leading edge. <i>International Journal of Impact Engineering</i> , 2013 , 54, 105-113	4	33
16	Shape memory alloy hybrid composites for improved impact properties for aeronautical applications. <i>Composite Structures</i> , 2013 , 95, 756-766	5-3	53
15	Parametric study of a SPH high velocity impact analysis [A birdstrike windshield application]. <i>Composite Structures</i> , 2013 , 96, 616-630	5-3	46
14	Experimental Tests Analysis of Fiber Metal Laminate under Birdstrike. <i>Mechanics of Advanced Materials and Structures</i> , 2012 , 19, 376-395	1-8	16
13	Steel Structure Impacting onto Water: Coupled Finite Element-Smoothed-Particle-Hydrodynamics Numerical Modeling. <i>Journal of Aircraft</i> , 2011 , 48, 1299-1308	1-6	12
12	SPH [Lagrangian study of bird impact on leading edge wing. <i>Composite Structures</i> , 2011 , 93, 1060-1071	5-3	69
11	Design and Testing of a Fiber-Metal-Laminate Bird-Strike-Resistant Leading Edge. <i>Journal of Aircraft</i> , 2009 , 46, 2121-2129	1-6	34
10	Effects of repeated cycles of sterilisation on the mechanical characteristics of titanium miniplates for osteosynthesis. <i>British Journal of Oral and Maxillofacial Surgery</i> , 2008 , 46, 449-54	1-4	4
9	Analysis of Bird Impact on a Composite Tailplane Leading Edge. <i>Applied Composite Materials</i> , 2008 , 15, 241-257	2	44
8	Influence of experimental testing set-up and geometric parameters on damping measurements 2004 , 5386, 498		2
7	Full Validation of the Structural-Acoustic Response of a Simple Enclosure. <i>Journal of Aircraft</i> , 1999 , 36, 866-875	1-6	1

6	Experimental modal analysis of the Garigliano cable-stayed bridge. <i>Soil Dynamics and Earthquake Engineering</i> , 1998 , 17, 485-493	3.5	24
5	FIRST ASSESSMENT OF THE SCALING PROCEDURE FOR THE EVALUATION OF THE DAMPED STRUCTURAL RESPONSE. <i>Journal of Sound and Vibration</i> , 1997 , 204, 540-548	3.9	11
4	Structural acoustic calculations in the low-frequency range. <i>Journal of Aircraft</i> , 1994 , 31, 1387-1394	1.6	9
3	Aeroelastic behaviour of long span bridges with Multibox type deck sections. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 1993 , 48, 343-358	3.7	4
2	Proposal of a sail system for the propulsion of a 25.000 tdw Bulk-carrier. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 1985 , 19, 115-137	3.7	
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