

Paolo Maggiore

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

581
citations

687363

13
h-index

677142

22
g-index

46
all docs

46
docs citations

46
times ranked

567
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a multifunctional panel for aerospace use through SLM additive manufacturing. <i>Procedia CIRP</i> , 2018, 67, 215-220.	1.9	78
2	Conjugate Heat Transfer Analysis of Integrated Brushless Generators for More Electric Engines. <i>IEEE Transactions on Industry Applications</i> , 2014, 50, 2467-2475.	4.9	44
3	Additive Manufacturing Offers New Opportunities in UAV Research. <i>Procedia CIRP</i> , 2016, 41, 1004-1010.	1.9	41
4	3D FDM production and mechanical behavior of polymeric sandwich specimens embedding classical and honeycomb cores. <i>Curved and Layered Structures</i> , 2018, 5, 80-94.	1.3	37
5	Lattice structured impact absorber with embedded anti-icing system for aircraft wings fabricated with additive SLM process. <i>Materials Today Communications</i> , 2018, 15, 185-189.	1.9	31
6	Compression Tests of ABS Specimens for UAV Components Produced via the FDM Technique. <i>Technologies</i> , 2017, 5, 20.	5.1	28
7	CAD based shape optimization for gas turbine component design. <i>Structural and Multidisciplinary Optimization</i> , 2010, 41, 647-659.	3.5	27
8	A methodology for innovative technologies roadmaps assessment to support strategic decisions for future space exploration. <i>Acta Astronautica</i> , 2014, 94, 813-833.	3.2	25
9	A Robust Multifunctional Sandwich Panel Design with Trabecular Structures by the Use of Additive Manufacturing Technology for a New De-icing System. <i>Technologies</i> , 2017, 5, 35.	5.1	25
10	Model-Based Fault Detection and Identification for Prognostics of Electromechanical Actuators Using Genetic Algorithms. <i>Aerospace</i> , 2019, 6, 94.	2.2	23
11	A methodology to support strategic decisions in future human space exploration: From scenario definition to building blocks assessment. <i>Acta Astronautica</i> , 2013, 91, 198-217.	3.2	19
12	Optimized design of a multiphase induction machine for an open rotor aero-engine shaft-line-embedded starter/generator. , 2013, , .		18
13	Comparative Analysis of a Hydraulic Servo-Valve. <i>International Journal of Fluid Power</i> , 2013, 14, 53-62.	0.7	14
14	Analysis of a Moon outpost for Mars enabling technologies through a Virtual Reality environment. <i>Acta Astronautica</i> , 2018, 143, 353-361.	3.2	13
15	Design and characterization of trabecular structures for an anti-icing sandwich panel produced by additive manufacturing. <i>Journal of Sandwich Structures and Materials</i> , 2020, 22, 1111-1131.	3.5	13
16	Analysis of environmental benefits resulting from use of hydrogen technology in handling operations at airports. <i>Clean Technologies and Environmental Policy</i> , 2014, 16, 875-890.	4.1	12
17	Thermal condition monitoring of large smart bearing through fiber optic sensors. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 1187-1193.	2.6	11
18	Multidisciplinary Integrated Framework for the Optimal Design of a Jet Aircraft Wing. <i>International Journal of Aerospace Engineering</i> , 2012, 2012, 1-9.	0.9	10

#	ARTICLE	IF	CITATIONS
19	Innovative Actuator Fault Identification Based on Back Electromotive Force Reconstruction. Actuators, 2020, 9, 50.	2.3	10
20	Characterization of ABS specimens produced via the 3D printing technology for drone structural components. Curved and Layered Structures, 2016, 3, .	1.3	9
21	A Comparison between 3D Printing and Milling Process for a Spar Cap Fitting (Wing-fuselage) of UAV Aircraft. Procedia CIRP, 2017, 62, 487-493.	1.9	8
22	Design and Development of a Planetary Gearbox for Electromechanical Actuator Test Bench through Additive Manufacturing. Actuators, 2020, 9, 35.	2.3	8
23	Failure rate evaluation method for HW architecture derived from functional safety standards (ISO Tj ETQq1 1 0.784314 rgBT /Overlook	8.9	6
24	Special Issue on "Additive Manufacturing Technologies and Applications" Technologies, 2017, 5, 58.	5.1	6
25	Risk Analysis of the Future Implementation of a Safety Management System for Multiple RPAS Based on First Demonstration Flights. Electronics (Switzerland), 2017, 6, 50.	3.1	6
26	Prognostics of Onboard Electromechanical Actuators: a New Approach Based on Spectral Analysis Techniques. International Review of Aerospace Engineering, 2018, 11, 96.	0.3	6
27	A Lumped Parameter High Fidelity EMA Model for Model-Based Prognostics. , 2019, , .		6
28	An Improved Fault Identification Method for Electromechanical Actuators. Aerospace, 2022, 9, 341.	2.2	6
29	Conjugate heat transfer analysis of integrated brushless generators for more electric engines. , 2013, , .		5
30	A New Method for Friction Estimation in EMA Transmissions. Actuators, 2021, 10, 194.	2.3	5
31	Multifidelity domain-aware learning for the design of re-entry vehicles. Structural and Multidisciplinary Optimization, 2021, 64, 3017-3035.	3.5	5
32	Fuel Cell Size and Weight Reduction Due to Innovative Metallic Bipolar Plates: Technical Process Details and Improvements. , 2009, , .		4
33	Fluid dynamic analysis of pollutantsâ€™ dispersion behind an aircraft engine during idling. Air Quality, Atmosphere and Health, 2013, 6, 367-383.	3.3	4
34	Multiobjective Optimization of Thermal Control Strategies for Multifunctional Structures. Journal of Aerospace Engineering, 2014, 27, 04014003.	1.4	4
35	Impact of an Optimized Power Turbine Disks Cavity on Geared Open Rotor Performance: A Multidisciplinary Approach in the Preliminary Design. , 2013, , .		3
36	Additive Manufacturing Evaluation Tool for Design Studies. IEEE Systems Journal, 2020, 14, 4382-4393.	4.6	3

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37	Risk analysis: sample application to a totally new aircraft design. Aircraft Design, 1998, 1, 1-11.	0.4	2
38	MarsGarden: Designing an ecosystem for a sustainable multiplanetary future. Acta Astronautica, 2022, 195, 445-455.	3.2	2
39	Multidisciplinary Integrated design Environment for Aircraft Wing Sizing. , 2010, , .		1
40	A PEM Fuel Cell Distributed Parameters Model Aiming at Studying the Production of Liquid Water Within the Cell During its Normal Operation: Model Description, Implementation and Validation. , 0, , .		1
41	Multi-objective Optimization of a Multifunctional Structure through a MOGA and SOM based Methodology. , 2013, , .		1
42	Preliminary Analysis on Environmental and Intrinsic Factors on FBG-Based Vibration Sensors. Journal of Physics: Conference Series, 2021, 1977, 012011.	0.4	1
43	PEM Fuel Cell Performance under Pre-Compression of Electrode: A Multidisciplinary, Integrated and Advanced Calculus Approach. , 0, , .		0
44	Pem Fuel Cell Performance Under Particular Operating Conditions Causing the Production of Liquid Water: A Morphing on Bipolar Plate's Channels Approach. , 2011, , .		0
45	A PEM Fuel Cell Laminar and Turbulent Models Comparison, Aiming at Identifying Small-Scale Plate Channel Phenomena: A Mesh Independent Configuration. , 0, , .		0
46	A Multi-Objective Design Optimization Approach for the Preliminary Design of High Speed Low Pressure Turbine Disks for Green Engine Architectures. , 2012, , .		0