

Luca Sorrentino

List of Publications by Year in descending order

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236925

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37
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100
all docs

100
docs citations

100
times ranked

1231
citing authors

#	ARTICLE	IF	CITATIONS
1	A new method to reduce delaminations during drilling of FRP laminates by feed rate control. Composite Structures, 2018, 186, 154-164.	5.8	124
2	In process monitoring of cutting temperature during the drilling of FRP laminate. Composite Structures, 2017, 168, 549-561.	5.8	95
3	A new methodology to evaluate the influence of curing overheating on the mechanical properties of thick FRP laminates. Composites Part B: Engineering, 2017, 109, 187-196.	12.0	60
4	Spring-in analysis of CFRP thin laminates: numerical and experimental results. Composite Structures, 2017, 173, 17-24.	5.8	55
5	Manufacture of high performance isogrid structure by Robotic Filament Winding. Composite Structures, 2017, 164, 43-50.	5.8	54
6	Improving the wettability of 2024 aluminium alloy by means of cold plasma treatment. Applied Surface Science, 2003, 214, 232-242.	6.1	51
7	Effect of curing overheating on interlaminar shear strength and its modelling in thick FRP laminates. International Journal of Advanced Manufacturing Technology, 2016, 87, 2213-2220.	3.0	48
8	Design and manufacturing of an isogrid structure in composite material: Numerical and experimental results. Composite Structures, 2016, 143, 189-201.	5.8	48
9	Surface treatment of CFRP: influence on single lap joint performances. International Journal of Adhesion and Adhesives, 2018, 85, 225-233.	2.9	48
10	Ballistic Performance Evaluation of Composite Laminates in Kevlar 29. Procedia Engineering, 2014, 88, 255-262.	1.2	43
11	Performance evaluation of CFRP/Al fibre metal laminates with different structural characteristics. Composite Structures, 2019, 225, 111117.	5.8	43
12	Ageing time of wettability on polypropylene surfaces processed by cold plasma. Journal of Materials Processing Technology, 2004, 153-154, 519-525.	6.3	42
13	Analysis of cure induced deformation of CFRP U-shaped laminates. Composite Structures, 2018, 197, 1-9.	5.8	42
14	To design the cure process of thick composite parts: experimental and numerical results. Advanced Composite Materials, 2014, 23, 225-238.	1.9	40
15	Robotic filament winding: An innovative technology to manufacture complex shape structural parts. Composite Structures, 2019, 220, 699-707.	5.8	39
16	A method to optimize the diamond wire cutting process. Diamond and Related Materials, 2017, 71, 90-97.	3.9	37
17	Compaction influence on spring-in of thin composite parts: Experimental and numerical results. Journal of Composite Materials, 2015, 49, 2149-2158.	2.4	36
18	Influence of winding speed and winding trajectory on tension in robotized filament winding of full section parts. Composites Science and Technology, 2005, 65, 1574-1581.	7.8	33

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19	A Method for Cure Process Design of Thick Composite Components Manufactured by Closed Die Technology. <i>Applied Composite Materials</i> , 2012, 19, 31-45.	2.5	32
20	Neural-fuzzy optimization of thick composites curing process. <i>Materials and Manufacturing Processes</i> , 2019, 34, 262-273.	4.7	31
21	Local monitoring of polymerization trend by an interdigital dielectric sensor. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 79, 1007-1016.	3.0	30
22	Influence of process parameters of oxygen cold plasma treatment on wettability ageing time of 2024 aluminium alloy. <i>International Journal of Adhesion and Adhesives</i> , 2009, 29, 136-143.	2.9	29
23	2024 aluminium alloy wettability and superficial cleaning improvement by air cold plasma treatment. <i>Journal of Materials Processing Technology</i> , 2009, 209, 1400-1409.	6.3	29
24	Geometrical deviation analysis of CFRP thin laminate assemblies: Numerical and experimental results. <i>Composites Science and Technology</i> , 2018, 168, 1-11.	7.8	29
25	Analysis of Thermal Damage in FRP Drilling. <i>Procedia Engineering</i> , 2016, 167, 206-215.	1.2	28
26	Adhesion of a protective coating on a surface of aluminium alloy treated by air cold plasma. <i>International Journal of Adhesion and Adhesives</i> , 2007, 27, 1-8.	2.9	26
27	Validation of a Methodology for Cure Process Optimization of Thick Composite Laminates. <i>Polymer-Plastics Technology and Engineering</i> , 2015, 54, 1803-1811.	1.9	25
28	Investigation on Electron Beam Melting: Dimensional accuracy and process repeatability. <i>Vacuum</i> , 2018, 157, 340-348.	3.5	25
29	Laser treatment surface: An innovative method to increase the adhesive bonding of ENF joints in CFRP. <i>Composite Structures</i> , 2020, 233, 111638.	5.8	24
30	Ductile cast irons: Microstructure influence on the fatigue initiation mechanisms. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019, 42, 2172-2182.	3.4	23
31	Modular structure of a new feed-deposition head for a robotized filament winding cell. <i>Composites Science and Technology</i> , 2003, 63, 2255-2263.	7.8	22
32	Wettability improving of 2024 aluminium alloy by oxygen cold plasma treatment. <i>International Journal of Advanced Manufacturing Technology</i> , 2006, 31, 465-473.	3.0	21
33	CFRP laser texturing to increase the adhesive bonding: morphological analysis of treated surfaces. <i>Journal of Adhesion</i> , 2021, 97, 1322-1335.	3.0	21
34	Experimental analysis of aluminium/carbon epoxy hybrid laminates under flexural load. <i>Frattura Ed Integrita Strutturale</i> , 2019, 13, 739-747.	0.9	19
35	Winding Trajectory and Winding Time in Robotized Filament Winding of Asymmetric Shape Parts. <i>Journal of Composite Materials</i> , 2005, 39, 1391-1411.	2.4	18
36	Mechanical performance analysis of hybrid metal-foam/composite samples. <i>International Journal of Advanced Manufacturing Technology</i> , 2012, 60, 181-190.	3.0	18

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37	Ti6Al4V Parts Produced by Electron Beam Melting: Analysis of Dimensional Accuracy and Surface Roughness. <i>Journal of Advanced Manufacturing Systems</i> , 2020, 19, 107-130.	1.0	18
38	In-process monitoring of cure degree by coplanar plate sensors. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 86, 2851-2859.	3.0	17
39	Bending properties of titanium lattice structures produced by electron beam melting process. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 1961-1970.	3.4	17
40	Forces and wear in high-speed machining of granite by circular sawing. <i>Diamond and Related Materials</i> , 2019, 100, 107579.	3.9	16
41	Analysis of carbon fibre reinforced polymers milling by diamond electroplated tool. <i>Diamond and Related Materials</i> , 2017, 76, 184-190.	3.9	14
42	Influence of hydrothermal ageing on single lap bonded CFRP joints. <i>Frattura Ed Integrita Strutturale</i> , 2018, 12, 173-182.	0.9	14
43	Oxygen cold plasma treatment on polypropylene: Influence of process parameters on surface wettability. <i>Surface Engineering</i> , 2007, 23, 247-252.	2.2	13
44	Cutting Forces in Milling of Carbon Fibre Reinforced Plastics. <i>International Journal of Manufacturing Engineering</i> , 2014, 2014, 1-8.	0.8	13
45	Experimental investigation of hydrothermal ageing on single lap bonded CFRP joints. <i>Procedia Structural Integrity</i> , 2018, 9, 101-107.	0.8	13
46	Effect of operating temperature on aged single lap bonded joints. <i>Defence Technology</i> , 2020, 16, 283-289.	4.2	13
47	Correlation of wettability and superficial cleaning of 2024 aluminium alloy with air cold plasma treatment time. <i>International Journal of Advanced Manufacturing Technology</i> , 2005, 26, 1026-1031.	3.0	12
48	A neuro-fuzzy approach for increasing productivity in gas metal arc welding processes. <i>International Journal of Advanced Manufacturing Technology</i> , 2007, 32, 459-467.	3.0	12
49	Titanium lattice structures manufactured by EBM process: Effect of skin material on bending characteristics. <i>Engineering Fracture Mechanics</i> , 2022, 260, 108180.	4.3	12
50	Method to Evaluate Winding Trajectories in Robotized Filament Winding. <i>Journal of Composite Materials</i> , 2004, 38, 41-56.	2.4	11
51	Influence of structural characteristics on the interlaminar shear strength of CFRP/Al fibre metal laminates. <i>Procedia Structural Integrity</i> , 2019, 18, 373-378.	0.8	11
52	Potentiality of hybrid structures in CFRP and additive manufactured metal octet-truss lattice. <i>Procedia Structural Integrity</i> , 2020, 28, 667-674.	0.8	11
53	Potentiality of Hot Drape Forming to produce complex shape parts in composite material. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 85, 945-954.	3.0	10
54	Characterization of Isogrid Structure in GFRP. <i>Frattura Ed Integrita Strutturale</i> , 2018, 12, 319-331.	0.9	10

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55	Drilling of glare laminates: effect of cutting parameters on process forces and temperatures. International Journal of Advanced Manufacturing Technology, 2022, 120, 645-657.	3.0	10
56	Ti-6Al-4V Octet-Truss Lattice Structures under Bending Load Conditions: Numerical and Experimental Results. Metals, 2022, 12, 410.	2.3	9
57	Temperature analysis in fiber metal laminates drilling: Experimental and numerical results. Polymer Composites, 2022, 43, 7600-7615.	4.6	9
58	Analysis of adhesion in an aggressive environment of a protective paint coating on an aluminium alloy surface treated by air cold plasma. Journal of Adhesion Science and Technology, 2004, 18, 1643-1661.	2.6	8
59	New methodology to determine the compressibility curve in a RIFT process. Journal of Composite Materials, 2014, 48, 1233-1240.	2.4	8
60	Hard and soft computing models of composite curing process looking toward monitoring and control. AIP Conference Proceedings, 2016, , .	0.4	8
61	Failure energy and stiffness of titanium lattice specimens produced by electron beam melting process. Material Design and Processing Communications, 2021, 3, .	0.9	8
62	Estimation of the winding tension to manufacture full section parts with robotized filament winding technology. Advanced Composite Materials, 2005, 14, 305-318.	1.9	7
63	Robotized Filament Winding of Full Section Parts: Comparison Between Two Winding Trajectory Planning Rules. Advanced Composite Materials, 2008, 17, 1-23.	1.9	7
64	Performance index optimization of pressure vessels manufactured by filament winding technology. Advanced Composite Materials, 2015, 24, 269-285.	1.9	7
65	Comparison between long and short beam flexure of a carbon fibre based FML. Procedia Structural Integrity, 2020, 26, 120-128.	0.8	7
66	Investigation on selective laser sintering of PA12: dimensional accuracy and mechanical performance. Rapid Prototyping Journal, 2021, 27, 1010-1019.	3.2	7
67	Mould design for manufacturing of isogrid structures in composite material. Procedia Structural Integrity, 2018, 9, 172-178.	0.8	6
68	Interlaminar shear strength study on CFRP/Al hybrid laminates with different properties. Frattura Ed Integrita Strutturale, 2020, 14, 442-448.	0.9	6
69	Design of a New Feed-Deposition Head for Robotized Filament Winding. , 2002, , 31.		5
70	Mechanical performances increasing of natural stones by GFRP sandwich structures. Procedia Structural Integrity, 2018, 9, 179-185.	0.8	5
71	Damage analysis of Ti6Al4V lattice structures manufactured by electron beam melting process subjected to bending load. Material Design and Processing Communications, 2021, 3, .	0.9	5
72	Influence of Laser Treatment on End Notched Flexure Bonded Joints in Carbon Fiber Reinforced Polymer: Experimental and Numerical Results. Materials, 2022, 15, 910.	2.9	5

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73	Flexural strength of aluminium carbon/epoxy fibre metal laminates. Material Design and Processing Communications, 2019, 1, e40.	0.9	4
74	Forming Process Analysis of an AA6060 Aluminum Vessel. Frattura Ed Integrita Strutturale, 2018, 12, 164-172.	0.9	4
75	Uniformity of thickness of metal sheets by patchwork blanks: potential of adhesive bonding. Frattura Ed Integrita Strutturale, 2020, 14, 166-176.	0.9	4
76	Adhesion of Polypropylene Surfaces Treated by Cold Plasma. , 2002, , .		3
77	AR Models to Forecast Roving Tension Trend in a Robotized Filament Winding Cell. Materials and Manufacturing Processes, 2006, 21, 870-876.	4.7	3
78	Actual Safety Distance and Winding Tension to Manufacture Full Section Parts by Robotized Filament Winding. Journal of Engineering Materials and Technology, Transactions of the ASME, 2006, 128, 393-400.	1.4	3
79	Evaluation of the spring-in of CFRP thin laminates in dependence on process variation. Procedia CIRP, 2018, 75, 415-420.	1.9	3
80	Numerical model development to predict the process-induced residual stresses in fibre metal laminates. Forces in Mechanics, 2021, 3, 100017.	2.8	3
81	Innovative Tape Placement Robotic Cell: High Flexibility System to Manufacture Composite Structural Parts With Variable Thickness. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2009, 131, .	2.2	2
82	Innovative Technologies to Manufacture Hybrid Metal Foam-Composite Components. , 2011, , .		2
83	7.16 Process Control for Polymeric Composite Manufacture. , 2018, , 337-354.		2
84	Analysis of CFRP/Al hybrid laminates flexural strength. Procedia Structural Integrity, 2019, 18, 368-372.	0.8	2
85	Hydrogen embrittlement in a 2101 lean Duplex Stainless Steel. Procedia Structural Integrity, 2019, 18, 391-398.	0.8	2
86	Measurement of high flexibility components in composite material: critical issues and possible solutions. International Journal of Advanced Manufacturing Technology, 2019, 103, 1529-1542.	3.0	2
87	Failure energy and strength of Al/CFRP hybrid laminates under flexural load. Material Design and Processing Communications, 2020, 2, e109.	0.9	2
88	Performance index of isogrid structures: robotic filament winding carbon fiber reinforced polymer vs. titanium alloy. Materials and Manufacturing Processes, 0, , 1-9.	4.7	2
89	Diamond tool wear monitoring by sensory analysis in milling of absolute black granite. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2022, 236, 625-635.	2.4	2
90	Performance Index of Natural Stones-GFRP Hybrid Structures. Frattura Ed Integrita Strutturale, 2018, 12, 285-294.	0.9	2

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91	Experimental study and numerical modeling of ENF scheme: Comparison of different beam approaches. Engineering Fracture Mechanics, 2022, 262, 108230.	4.3	2
92	Design of Winding With Two Rovings for Cost Efficiency and Quality in Robotized Filament Winding. , 2003, , 177.		1
93	Design of Deposition Head Trajectory for Robotized Filament Winding of Complex Shape Parts. , 2004, , 897.		1
94	Neural Based Optimization of Composite Curing Process. , 2021, , 2-13.		1
95	Lightweight Structures: an innovative method to uniform the thickness of metal sheets by patchwork blanks. International Journal of Lightweight Materials and Manufacture, 2021, 5, 20-20.	2.1	1
96	Friction influence on the AA6060 aluminium alloy formability. Frattura Ed Integrita Strutturale, 2019, 13, 791-799.	0.9	1
97	Hybrid structures in Titanium-Lattice/FRP: effect of skins material on bending characteristics. Procedia Structural Integrity, 2022, 41, 3-8.	0.8	1
98	Comparison of Winding Cells with One and Two Rovings in Robotized Filament Winding Technology. , 0, , .		0
99	Analysis of spring-in in U-shaped composite laminates: Numerical and experimental results. AIP Conference Proceedings, 2018, , .	0.4	0
100	Increasing of ENF Bonded Joints Performance by Design of Laser Surface Texturing. Key Engineering Materials, 0, 813, 346-351.	0.4	0