

Costanzo Bellini

List of Publications by Year in descending order

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82
papers

1,370
citations

331670

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377865

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82
all docs

82
docs citations

82
times ranked

912
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	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
7	Design and manufacturing of an isogrid structure in composite material: Numerical and experimental results. Composite Structures, 2016, 143, 189-201.	5.8	48
8	Surface treatment of CFRP: influence on single lap joint performances. International Journal of Adhesion and Adhesives, 2018, 85, 225-233.	2.9	48
9	Ballistic Performance Evaluation of Composite Laminates in Kevlar 29. Procedia Engineering, 2014, 88, 255-262.	1.2	43
10	Performance evaluation of CFRP/Al fibre metal laminates with different structural characteristics. Composite Structures, 2019, 225, 1111-1117.	5.8	43
11	Analysis of cure induced deformation of CFRP U-shaped laminates. Composite Structures, 2018, 197, 1-9.	5.8	42
12	To design the cure process of thick composite parts: experimental and numerical results. Advanced Composite Materials, 2014, 23, 225-238.	1.9	40
13	Robotic filament winding: An innovative technology to manufacture complex shape structural parts. Composite Structures, 2019, 220, 699-707.	5.8	39
14	A method to optimize the diamond wire cutting process. Diamond and Related Materials, 2017, 71, 90-97.	3.9	37
15	Compaction influence on spring-in of thin composite parts: Experimental and numerical results. Journal of Composite Materials, 2015, 49, 2149-2158.	2.4	36
16	Neural-fuzzy optimization of thick composites curing process. Materials and Manufacturing Processes, 2019, 34, 262-273.	4.7	31
17	Local monitoring of polymerization trend by an interdigital dielectric sensor. International Journal of Advanced Manufacturing Technology, 2015, 79, 1007-1016.	3.0	30
18	Geometrical deviation analysis of CFRP thin laminate assemblies: Numerical and experimental results. Composites Science and Technology, 2018, 168, 1-11.	7.8	29

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19	Analysis of Thermal Damage in FRP Drilling. <i>Procedia Engineering</i> , 2016, 167, 206-215.	1.2	28
20	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
21	A New Class of Thin Composite Parts for Small Batch Productions. <i>Advanced Composites Letters</i> , 2014, 23, 096369351402300.	1.3	23
22	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
23	Fatigue crack propagation and damaging micromechanisms in Ductile Cast Irons. <i>International Journal of Fatigue</i> , 2019, 124, 48-54.	5.7	22
24	Experimental analysis of aluminium/carbon epoxy hybrid laminates under flexural load. <i>Frattura Ed Integrita Strutturale</i> , 2019, 13, 739-747.	0.9	19
25	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
26	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
27	Overload effects on fatigue cracks in a ferritized ductile cast iron. <i>International Journal of Fatigue</i> , 2019, 127, 376-381.	5.7	16
28	Analysis of carbon fibre reinforced polymers milling by diamond electroplated tool. <i>Diamond and Related Materials</i> , 2017, 76, 184-190.	3.9	14
29	Influence of hydrothermal ageing on single lap bonded CFRP joints. <i>Frattura Ed Integrita Strutturale</i> , 2018, 12, 173-182.	0.9	14
30	Experimental investigation of hydrothermal ageing on single lap bonded CFRP joints. <i>Procedia Structural Integrity</i> , 2018, 9, 101-107.	0.8	13
31	Effect of operating temperature on aged single lap bonded joints. <i>Defence Technology</i> , 2020, 16, 283-289.	4.2	13
32	Characterisation of the damaging micromechanisms in a pearlitic ductile cast iron and damage assessment by acoustic emission testing. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 1038-1050.	3.4	13
33	Additive manufacturing processes for metals and effects of defects on mechanical strength: a review. <i>Procedia Structural Integrity</i> , 2021, 33, 498-508.	0.8	13
34	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
35	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
36	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

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37	Potentiality of Hot Drape Forming to produce complex shape parts in composite material. International Journal of Advanced Manufacturing Technology, 2016, 85, 945-954.	3.0	10
38	Characterization of Isogrid Structure in GFRP. Frattura Ed Integrita Strutturale, 2018, 12, 319-331.	0.9	10
39	Ti-6Al-4V Octet-Truss Lattice Structures under Bending Load Conditions: Numerical and Experimental Results. Metals, 2022, 12, 410.	2.3	9
40	New methodology to determine the compressibility curve in a RIFT process. Journal of Composite Materials, 2014, 48, 1233-1240.	2.4	8
41	Hard and soft computing models of composite curing process looking toward monitoring and control. AIP Conference Proceedings, 2016, , .	0.4	8
42	Failure energy and stiffness of titanium lattice specimens produced by electron beam melting process. Material Design and Processing Communications, 2021, 3, .	0.9	8
43	Comparison between long and short beam flexure of a carbon fibre based FML. Procedia Structural Integrity, 2020, 26, 120-128.	0.8	7
44	Mould design for manufacturing of isogrid structures in composite material. Procedia Structural Integrity, 2018, 9, 172-178.	0.8	6
45	Interlaminar shear strength study on CFRP/Al hybrid laminates with different properties. Frattura Ed Integrita Strutturale, 2020, 14, 442-448.	0.9	6
46	Effect of recycling on internal and external defects of Ti-6Al-4V powder particles for electron beam melting process. Procedia Structural Integrity, 2022, 41, 175-182.	0.8	6
47	Mechanical performances increasing of natural stones by GFRP sandwich structures. Procedia Structural Integrity, 2018, 9, 179-185.	0.8	5
48	Fatigue crack propagation mechanisms in C70250 and CuCrZr copper alloys. Procedia Structural Integrity, 2020, 26, 330-335.	0.8	5
49	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
50	A cyclic integrated microstructural-mechanical model for a shape memory alloy. International Journal of Fatigue, 2021, 153, 106473.	5.7	5
51	Bath chemical composition influence on intermetallic phases damage in hot dip galvanizing. Procedia Structural Integrity, 2022, 39, 574-581.	0.8	5
52	The influence of hot dip galvanizing process on intermetallic phases formation. Material Design and Processing Communications, 2019, 1, e39.	0.9	4
53	Flexural strength of aluminium carbon/epoxy fibre metal laminates. Material Design and Processing Communications, 2019, 1, e40.	0.9	4
54	Study of the fracture behavior of a CuCrZr alloy. Material Design and Processing Communications, 2020, 2, e113.	0.9	4

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55	Milling machining of CFRPs: a model to simulate and forecast the cutting forces in time domain. International Journal of Engineering and Technology, 2016, 8, 1880-1892.	0.1	4
56	Forming Process Analysis of an AA6060 Aluminum Vessel. Frattura Ed Integrita Strutturale, 2018, 12, 164-172.	0.9	4
57	Intermetallic phase kinetic formation and thermal crack development in galvanized DCI. Frattura Ed Integrita Strutturale, 2019, 13, 740-747.	0.9	4
58	Evaluation of the spring-in of CFRP thin laminates in dependence on process variation. Procedia CIRP, 2018, 75, 415-420.	1.9	3
59	Analysis of the Al and Ti additions influences on phases generation and damage in a hot dip galvanizing process. Procedia Structural Integrity, 2019, 18, 688-693.	0.8	3
60	Damage analysis of a GLARE laminate subjected to interlaminar shear. Procedia Structural Integrity, 2020, 25, 262-267.	0.8	3
61	Numerical model development to predict the process-induced residual stresses in fibre metal laminates. Forces in Mechanics, 2021, 3, 100017.	2.8	3
62	Analysis of CFRP/Al hybrid laminates flexural strength. Procedia Structural Integrity, 2019, 18, 368-372.	0.8	2
63	Hydrogen embrittlement in a 2101 lean Duplex Stainless Steel. Procedia Structural Integrity, 2019, 18, 391-398.	0.8	2
64	Failure energy and strength of Al/CFRP hybrid laminates under flexural load. Material Design and Processing Communications, 2020, 2, e109.	0.9	2
65	Assessment of fatigue damage in a fully pearlitic ductile cast iron by evaluation of Acoustic Emission Entropy. Procedia Structural Integrity, 2020, 25, 364-369.	0.8	2
66	Analysis of acoustic emission entropy for damage assessment of pearlitic ductile cast irons. Material Design and Processing Communications, 2020, 2, e158.	0.9	2
67	Damage evolution during tensile test of austempered ductile iron partially austenized. Material Design and Processing Communications, 2020, 2, e157.	0.9	2
68	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
69	An integrated model to predict the microstructure evolution and the mechanical behaviour of a two-phases pseudo-elastic SMA. Procedia Structural Integrity, 2020, 28, 2283-2290.	0.8	2
70	Performance Index of Natural Stones-GFRP Hybrid Structures. Frattura Ed Integrita Strutturale, 2018, 12, 285-294.	0.9	2
71	Failure criteria for real-time assessment of ductile cast irons subjected to various loading conditions. Smart Materials and Structures, 2021, 30, 017001.	3.5	2
72	A constitutive model to predict the pseudo-elastic stress-strain behaviour of SMA. Procedia Structural Integrity, 2019, 18, 858-865.	0.8	1

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73	Friction influence on the AA6060 aluminium alloy formability. <i>Frattura Ed Integrita Strutturale</i> , 2019, 13, 791-799.	0.9	1
74	Cycling model for a NiTi Shape Memory Alloy. <i>Procedia Structural Integrity</i> , 2021, 33, 1035-1041.	0.8	1
75	Hybrid structures in Titanium-Lattice/FRP: effect of skins material on bending characteristics. <i>Procedia Structural Integrity</i> , 2022, 41, 3-8.	0.8	1
76	Crack micromechanisms in cycled shape memory alloys. <i>Procedia Structural Integrity</i> , 2022, 41, 692-698.	0.8	1
77	Analysis of spring-in in U-shaped composite laminates: Numerical and experimental results. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
78	Increasing of ENF Bonded Joints Performance by Design of Laser Surface Texturing. <i>Key Engineering Materials</i> , 0, 813, 346-351.	0.4	0
79	CFRP/aluminium fibre metal laminates: numerical model for mechanical properties simulation. <i>Procedia Structural Integrity</i> , 2021, 33, 824-831.	0.8	0
80	Numerical Modelling of Fibre Metal Laminate Flexural Behaviour. <i>Material Design and Processing Communications</i> , 2022, 2022, 1-8.	0.9	0
81	Analysis of fracture characteristics in aluminium-CFRP hybrid laminate subject to three-point bending loading. <i>Procedia Structural Integrity</i> , 2022, 39, 173-178.	0.8	0
82	Fracture micrographic analysis of a carbon FML under three-point bending load. <i>Frattura Ed Integrita Strutturale</i> , 2022, 16, 410-418.	0.9	0