Costanzo Bellini

List of Publications by Year
in descending order

82 papers	1,370 citations	331670 21 h-index	377865 34 g-index
82 all docs	82 docs citations	82 times ranked	912 citing authors

#	Article	IF	Citations
1	Titanium lattice structures manufactured by EBM process: Effect of skin material on bending characteristics. Engineering Fracture Mechanics, 2022, 260, 108180.	4.3	12
2	Numerical Modelling of Fibre Metal Laminate Flexural Behaviour. Material Design and Processing Communications, 2022, 2022, 1-8.	0.9	0
3	Analysis of fracture characteristics in aluminium-CFRP hybrid laminate subject to three-point bending loading. Procedia Structural Integrity, 2022, 39, 173-178.	0.8	0
4	Bath chemical composition influence on intermetallic phases damage in hot dip galvanizing. Procedia Structural Integrity, 2022, 39, 574-581.	0.8	5
5	Ti-6Al-4V Octet-Truss Lattice Structures under Bending Load Conditions: Numerical and Experimental Results. Metals, 2022, 12, 410.	2.3	9
6	Hybrid structures in Titanium-Lattice/FRP: effect of skins material on bending characteristics. Procedia Structural Integrity, 2022, 41, 3-8.	0.8	1
7	Crack micromechanisms in cycled shape memory alloys. Procedia Structural Integrity, 2022, 41, 692-698.	0.8	1
8	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
9	Fracture micrographic analysis of a carbon FML under three-point bending load. Frattura Ed Integrita Strutturale, 2022, 16, 410-418.	0.9	0
10	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
11	Bending properties of titanium lattice structures produced by electron beam melting process. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 1961-1970.	3.4	17
12	Numerical model development to predict the process-induced residual stresses in fibre metal laminates. Forces in Mechanics, 2021, 3, 100017.	2.8	3
13	A cyclic integrated microstructural-mechanical model for a shape memory alloy. International Journal of Fatigue, 2021, 153, 106473.	5.7	5
14	Failure energy and stiffness of titanium lattice specimens produced by electron beam melting process. Material Design and Processing Communications, 2021, 3, .	0.9	8
15	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
16	Additive manufacturing processes for metals and effects of defects on mechanical strength: a review. Procedia Structural Integrity, 2021, 33, 498-508.	0.8	13
17	Cycling model for a NiTi Shape Memory Alloy. Procedia Structural Integrity, 2021, 33, 1035-1041.	0.8	1
18	CFRP/aluminium fibre metal laminates: numerical model for mechanical properties simulation. Procedia Structural Integrity, 2021, 33, 824-831.	0.8	0

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19	Effect of operating temperature on aged single lap bonded joints. Defence Technology, 2020, 16, 283-289.	4.2	13
20	Failure energy and strength of Al/CFRP hybrid laminates under flexural load. Material Design and Processing Communications, 2020, 2, e109.	0.9	2
21	Study of the fracture behavior of a CuCrZr alloy. Material Design and Processing Communications, 2020, 2, e113.	0.9	4
22	Damage analysis of a GLARE laminate subjected to interlaminar shear. Procedia Structural Integrity, 2020, 25, 262-267.	0.8	3
23	Characterisation of the damaging micromechanisms in a pearlitic ductile cast iron and damage assessment by acoustic emission testing. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 1038-1050.	3.4	13
24	Comparison between long and short beam flexure of a carbon fibre based FML. Procedia Structural Integrity, 2020, 26, 120-128.	0.8	7
25	Fatigue crack propagation mechanisms in C70250 and CuCrZr copper alloys. Procedia Structural Integrity, 2020, 26, 330-335.	0.8	5
26	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
27	Analysis of acoustic emission entropy for damage assessment of pearlitic ductile cast irons. Material Design and Processing Communications, 2020, 2, e158.	0.9	2
28	Damage evolution during tensile test of austempered ductile iron partially austenized. Material Design and Processing Communications, 2020, 2, e157.	0.9	2
29	Potentiality of hybrid structures in CFRP and additive manufactured metal octet-truss lattice. Procedia Structural Integrity, 2020, 28, 667-674.	0.8	11
30	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
31	Interlaminar shear strength study on CFRP/Al hybrid laminates with different properties. Frattura Ed Integrita Strutturale, 2020, 14, 442-448.	0.9	6
32	Ductile cast irons: Microstructure influence on the fatigue initiation mechanisms. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 2172-2182.	3.4	23
33	Overload effects on fatigue cracks in a ferritized ductile cast iron. International Journal of Fatigue, 2019, 127, 376-381.	5.7	16
34	Analysis of CFRP/Al hybrid laminates flexural strength. Procedia Structural Integrity, 2019, 18, 368-372.	0.8	2
35	Hydrogen embrittlement in a 2101 lean Duplex Stainless Steel. Procedia Structural Integrity, 2019, 18, 391-398.	0.8	2
36	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

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37	A constitutive model to predict the pseudo-elastic stress-strain behaviour of SMA. Procedia Structural Integrity, 2019, 18, 858-865.	0.8	1
38	Influence of structural characteristics on the interlaminar shear strength of CFRP/Al fibre metal laminates. Procedia Structural Integrity, 2019, 18, 373-378.	0.8	11
39	Performance evaluation of CFRP/Al fibre metal laminates with different structural characteristics. Composite Structures, 2019, 225, 111117.	5.8	43
40	The influence of hot dip galvanizing process on intermetallic phases formation. Material Design and Processing Communications, 2019, 1, e39.	0.9	4
41	Fatigue crack propagation and damaging micromechanisms in Ductile Cast Irons. International Journal of Fatigue, 2019, 124, 48-54.	5.7	22
42	Robotic filament winding: An innovative technology to manufacture complex shape structural parts. Composite Structures, 2019, 220, 699-707.	5.8	39
43	Flexural strength of aluminium carbon/epoxy fibre metal laminates. Material Design and Processing Communications, 2019, 1, e40.	0.9	4
44	Neural-fuzzy optimization of thick composites curing process. Materials and Manufacturing Processes, 2019, 34, 262-273.	4.7	31
45	Intermetallic phase kinetic formation and thermal crack development in galvanized DCI. Frattura Ed Integrita Strutturale, 2019, 13, 740-747.	0.9	4
46	Experimental analysis of aluminium/carbon epoxy hybrid laminates under flexural load. Frattura Ed Integrita Strutturale, 2019, 13, 739-747.	0.9	19
47	Friction influence on the AA6060 aluminium alloy formability. Frattura Ed Integrita Strutturale, 2019, 13, 791-799.	0.9	1
48	A new method to reduce delaminations during drilling of FRP laminates by feed rate control. Composite Structures, 2018, 186, 154-164.	5.8	124
49	Experimental investigation of hydrothermal ageing on single lap bonded CFRP joints. Procedia Structural Integrity, 2018, 9, 101-107.	0.8	13
50	Mould design for manufacturing of isogrid structures in composite material. Procedia Structural Integrity, 2018, 9, 172-178.	0.8	6
51	Mechanical performances increasing of natural stones by GFRP sandwich structures. Procedia Structural Integrity, 2018, 9, 179-185.	0.8	5
52	Evaluation of the spring-in of CFRP thin laminates in dependence on process variation. Procedia CIRP, 2018, 75, 415-420.	1.9	3
53	Geometrical deviation analysis of CFRP thin laminate assemblies: Numerical and experimental results. Composites Science and Technology, 2018, 168, 1-11.	7.8	29
54	Surface treatment of CFRP: influence on single lap joint performances. International Journal of Adhesion and Adhesives, 2018, 85, 225-233.	2.9	48

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55	Analysis of spring-in in U-shaped composite laminates: Numerical and experimental results. AIP Conference Proceedings, 2018, , .	0.4	0
56	Analysis of cure induced deformation of CFRP U-shaped laminates. Composite Structures, 2018, 197, 1-9.	5.8	42
57	Forming Process Analysis of an AA6060 Aluminum Vessel. Frattura Ed Integrita Strutturale, 2018, 12, 164-172.	0.9	4
58	Influence of hydrothermal ageing on single lap bonded CFRP joints. Frattura Ed Integrita Strutturale, 2018, 12, 173-182.	0.9	14
59	Performance Index of Natural Stones-GFRP Hybrid Structures. Frattura Ed Integrita Strutturale, 2018, 12, 285-294.	0.9	2
60	Characterization of Isogrid Structure in GFRP. Frattura Ed Integrita Strutturale, 2018, 12, 319-331.	0.9	10
61	In process monitoring of cutting temperature during the drilling of FRP laminate. Composite Structures, 2017, 168, 549-561.	5.8	95
62	Analysis of carbon fibre reinforced polymers milling by diamond electroplated tool. Diamond and Related Materials, 2017, 76, 184-190.	3.9	14
63	Spring-in analysis of CFRP thin laminates: numerical and experimental results. Composite Structures, 2017, 173, 17-24.	5.8	55
64	Manufacture of high performance isogrid structure by Robotic Filament Winding. Composite Structures, 2017, 164, 43-50.	5.8	54
65	A method to optimize the diamond wire cutting process. Diamond and Related Materials, 2017, 71, 90-97.	3.9	37
66	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
67	Analysis of Thermal Damage in FRP Drilling. Procedia Engineering, 2016, 167, 206-215.	1.2	28
68	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
69	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
70	Hard and soft computing models of composite curing process looking toward monitoring and control. AIP Conference Proceedings, 2016, , .	0.4	8
71	In-process monitoring of cure degree by coplanar plate sensors. International Journal of Advanced Manufacturing Technology, 2016, 86, 2851-2859.	3.0	17
72	Design and manufacturing of an isogrid structure in composite material: Numerical and experimental results. Composite Structures, 2016, 143, 189-201.	5.8	48

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73	Milling machining of CFRPs: a model to simulate and forecast the cutting forces intime domain. International Journal of Engineering and Technology, 2016, 8, 1880-1892.	0.1	4
74	Local monitoring of polymerization trend by an interdigital dielectric sensor. International Journal of Advanced Manufacturing Technology, 2015, 79, 1007-1016.	3.0	30
75	Validation of a Methodology for Cure Process Optimization of Thick Composite Laminates. Polymer-Plastics Technology and Engineering, 2015, 54, 1803-1811.	1.9	25
76	Compaction influence on spring-in of thin composite parts: Experimental and numerical results. Journal of Composite Materials, 2015, 49, 2149-2158.	2.4	36
77	A New Class of Thin Composite Parts for Small Batch Productions. Advanced Composites Letters, 2014, 23, 096369351402300.	1.3	23
78	Ballistic Performance Evaluation of Composite Laminates in Kevlar 29. Procedia Engineering, 2014, 88, 255-262.	1.2	43
79	To design the cure process of thick composite parts: experimental and numerical results. Advanced Composite Materials, 2014, 23, 225-238.	1.9	40
80	New methodology to determine the compressibility curve in a RIFT process. Journal of Composite Materials, 2014, 48, 1233-1240.	2.4	8
81	Increasing of ENF Bonded Joints Performance by Design of Laser Surface Texturing. Key Engineering Materials, 0, 813, 346-351.	0.4	0
82	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