Carlos A B Capela

List of Publications by Year
in descending order

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80 papers	1,059 citations	430754 18 h-index	477173 29 g-index
84 all docs	84 docs citations	84 times ranked	1056 citing authors

#	Article	IF	Citations
1	Low-Cycle Fatigue Behaviour of AISI 18Ni300 Maraging Steel Produced by Selective Laser Melting. Metals, 2018, 8, 32.	1.0	68
2	A study of the mechanical behaviour on fibre reinforced hollow microspheres hybrid composites. Composites Part A: Applied Science and Manufacturing, 2010, 41, 345-352.	3.8	64
3	Fatigue behavior of short carbon fiber reinforced epoxy composites. Composites Part B: Engineering, 2019, 164, 191-197.	5.9	48
4	Effect of fiber length on the mechanical properties of high dosage carbon reinforced. Procedia Structural Integrity, 2017, 5, 539-546.	0.3	46
5	Fatigue behaviour of nanoclay reinforced epoxy resin composites. Composites Part B: Engineering, 2013, 52, 286-291.	5.9	44
6	Mechanical Properties of Woven Mat Jute/Epoxy Composites. Materials Research, 2016, 19, 702-710.	0.6	43
7	Fatigue behaviour of selective laser melting steel components. Theoretical and Applied Fracture Mechanics, 2016, 85, 9-15.	2.1	43
8	Effect of heat treatment on the fatigue crack growth behaviour in additive manufactured AISI 18Ni300 steel. Theoretical and Applied Fracture Mechanics, 2019, 102, 10-15.	2.1	40
9	Multiaxial fatigue behaviour of maraging steel produced by selective laser melting. Materials and Design, 2021, 201, 109469.	3.3	39
10	Improvement in fatigue life of Al 7475-T7351 alloy specimens by applying ultrasonic and microshot peening. International Journal of Fatigue, 2016, 92, 87-95.	2.8	37
11	Effect of multiaxial bending-torsion loading on fracture surface parameters in high-strength steels processed by conventional and additive manufacturing. Engineering Failure Analysis, 2020, 118, 104784.	1.8	37
12	Numerical modelling of the Youngâ€™s modulus of syntactic foams. Finite Elements in Analysis and Design, 2011, 47, 78-84.	1.7	28
13	Mixed Mode interlayer fracture of glass fiber/nano-enhanced epoxy composites. Composites Part A: Applied Science and Manufacturing, 2014, 64, 211-222.	3.8	26
14	A study of the mechanical properties of natural fibre reinforced composites. Fibers and Polymers, 2010, 11, 1181-1186.	1.1	24
15	Fatigue Crack Growth in Maraging Steel Obtained by Selective Laser Melting. Applied Sciences (Switzerland), 2019, 9, 4412.	1.3	22
16	Fatigue strength of tubular carbon fibre composites under bending/torsion loading. International Journal of Fatigue, 2015, 70, 216-222.	2.8	21
17	Fracture assessment of PMMA/Si kitchen sinks made from acrylic casting dispersion. Theoretical and Applied Fracture Mechanics, 1997, 26, 105-116.	2.1	19
18	Fatigue crack growth under corrosive environments of Ti-6Al-4V specimens produced by SLM. Engineering Failure Analysis, 2020, 118, 104852.	1.8	19

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19	Effect of bead characteristics on the fatigue life of shot peened Al 7475-T7351 specimens. International Journal of Fatigue, 2020, 134, 105521.	2.8	19
20	Fatigue Failure from Inner Surfaces of Additive Manufactured Ti-6Al-4V Components. Materials, 2021, 14, 737.	1.3	19
21	Fatigue behaviour in hybrid hollow microspheres/fibre reinforced composites. Journal of Materials Science, 2010, 45, 3547-3553.	1.7	17
22	Analysis of friction in the ejection of thermoplastic mouldings. International Journal of Advanced Manufacturing Technology, 2012, 59, 977-986.	1.5	17
23	Fracture Toughness of Hybrid Components with Selective Laser Melting 18Ni300 Steel Parts. Applied Sciences (Switzerland), 2018, 8, 1879.	1.3	17
24	Fatigue life predictions in polymer particle composites. International Journal of Fatigue, 2002, 24, 1095-1105.	2.8	13
25	Test Conditions Effect on the Fracture Toughness of Hollow Glass Microâ€sphere Filled Composites. Strain, 2008, 44, 141-146.	1.4	13
26	Dynamic Mechanical Analysis of Hybrid Fibre/Glass Microspheres Composites. Strain, 2011, 47, 275-280.	1.4	13
27	A study of mixed mode interlaminar fracture on nanoclay enhanced epoxy/glass fiber composites. CiÃªncia & Tecnologia Dos Materiais, 2013, 25, 92-97.	0.5	13
28	Assessment of the fatigue life on functional hybrid laser sintering steel components. Procedia Structural Integrity, 2016, 1, 126-133.	0.3	13
29	Mechanical behavior of high dosage short carbon fiber reinforced epoxy composites. Fibers and Polymers, 2017, 18, 1200-1207.	1.1	13
30	Fatigue behaviour of maraging steel samples produced by SLM under constant and variable amplitude loading. Procedia Structural Integrity, 2019, 22, 10-16.	0.3	13
31	Fatigue crack growth behaviour in Ti6Al4V alloy specimens produced by selective laser melting. International Journal of Fracture, 2020, 223, 123-133.	1.1	13
32	Assessment of the mechanical properties of nanoclays enhanced low Tg epoxy resins. Fibers and Polymers, 2014, 15, 1677-1684.	1.1	12
33	A study of fatigue notch sensibility on titanium alloy TiAl6V4 parts manufactured by selective laser melting. Procedia Structural Integrity, 2018, 13, 1000-1005.	0.3	12
34	Imperfections and Modelling of the Weld Bead Profile of Laser Butt Joints in HSLA Steel Thin Plate. Metals, 2021, 11, 151.	1.0	12
35	Impact response of nano reinforced mat glass/epoxy laminates. Fibers and Polymers, 2015, 16, 173-180.	1.1	11
36	Fatigue behavior of Ti6Al4V alloy components manufactured by selective laser melting subjected to hot isostatic pressing and residual stress relief. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 1916-1930.	1.7	11

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37	Notch fatigue analysis and crack initiation life estimation of maraging steel fabricated by laser beam powder bed fusion under multiaxial loading. International Journal of Fatigue, 2021, 153, 106468.	2.8	11
38	Fatigue Performance of Hybrid Steel Samples with Laser Sintered Implants. Procedia Engineering, 2016, 160, 143-150.	1.2	10
39	Fatigue Crack Propagation in Shot Peened al 7475-t7351 Alloy Specimens. Procedia Engineering, 2016, 160, 254-261.	1.2	10
40	Effect of water and fiber length on the mechanical properties of polypropylene matrix composites. Fibers and Polymers, 2014, 15, 1017-1022.	1.1	9
41	Effects of Shot-Peening and Stress Ratio on the Fatigue Crack Propagation of AL 7475-T7351 Specimens. Applied Sciences (Switzerland), 2018, 8, 375.	1.3	9
42	Fracture toughness of the heat affected zone on Nd-YAG laser welded joints. Engineering Failure Analysis, 2009, 16, 1245-1251.	1.8	7
43	Viscoelastic Properties Assessment of Syntactic Foams by Dynamic Mechanical Analysis. Materials Science Forum, 2010, 636-637, 280-286.	0.3	7
44	Mechanical Properties of Injection-Molded Glass Microsphere-Reinforced Polyamide. Journal of Materials Engineering and Performance, 2016, 25, 4256-4265.	1.2	7
45	Mechanical behaviour of PVC/CaCO₃ Particulate Composites â€“ Influence of Temperature. Strain, 2011, 47, e292.	1.4	6
46	Effect of the foam core density on the bending response on sandwich composites. Fibers and Polymers, 2013, 14, 597-602.	1.1	6
47	Environmental effect on the fatigue crack propagation of AM TiAl6V4 alloy specimens. Procedia Structural Integrity, 2019, 17, 562-567.	0.3	6
48	Assessment of the fatigue performance of heat-treated addictive manufactured TiAl6V4 specimens. Procedia Structural Integrity, 2019, 18, 651-656.	0.3	6
49	Development of a preliminary finite element model to assess the effects of friction on the residual limb of a transfemoral amputee. Materials Today: Proceedings, 2020, 33, 1859-1863.	0.9	5
50	Fatigue behaviour of PMMAsilica acrylic casting dispersions. Materials Science and Technology, 2001, 17, 1657-1663.	0.8	4
51	Fatigue crack propagation along interfaces of selective laser melting steel hybrid parts. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 2431-2440.	1.7	4
52	A Novel Specimen Produced by Additive Manufacturing for Pure Plane Strain Fatigue Crack Growth Studies. Metals, 2021, 11, 433.	1.0	4
53	Analysis of fatigue crack propagation in laser sintering metal. Procedia Structural Integrity, 2017, 5, 239-246.	0.3	3
54	Developing Sustainable Materials for Marine Environments: Algae as Natural Fibers on Polymer Composites. Lecture Notes in Mechanical Engineering, 2020, , 198-205.	0.3	3

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55	Fatigue crack growth under mixed mode IÂ+ÂII in Ti-6Al-4V specimens produced by Laser powder Bed fusion. Engineering Fracture Mechanics, 2022, 264, 108327.	2.0	3
56	Fracture Toughness and Wear Analysis of PMMA/SiO₂ Acrylic Casting Dispersions. Key Engineering Materials, 2002, 230-232, 222-225.	0.4	2
57	Mixed Mode Interlaminar Fracture of Carbon Nanotubes Enhanced Epoxy/Glass Fiber Composites. Key Engineering Materials, 0, 592-593, 283-286.	0.4	2
58	Determination of Elastic Properties by Resonant Technique: A Sensitivity Analysis. Journal of Testing and Evaluation, 2008, 36, 101041.	0.4	2
59	Effect of artificial saliva on the fatigue and wear response of TiAl6V4 specimens produced by SLM. Procedia Structural Integrity, 2020, 28, 790-795.	0.3	2
60	Thermal fatigue assessment of components made with particulate polymer composites. Theoretical and Applied Fracture Mechanics, 2004, 42, 171-181.	2.1	1
61	HIGH-PRESSURE RANGE SHOCK WAVE DATA FOR SYNTACTIC FOAMS. , 2009, , .		1
62	Interlaminar Adhesive Strength of Nano-Reinforced Glass/Epoxy Laminates. Journal of Adhesion, 2014, 90, 3-15.	1.8	1
63	Fatigue and impact response of gel-coated glass mats/polyester composites. Journal of Composite Materials, 2014, 48, 1131-1137.	1.2	1
64	Energy-Efficient Dewatering Technique for Recycled Films. , 2021, , 370-381.		1
65	Influence of Local Properties on Fatigue Crack Growth of Laser Butt Welds in Thin Plates of High-Strength Low-Alloy Steel. Applied Sciences (Switzerland), 2021, 11, 7346.	1.3	1
66	Fatigue Performance of Thin Laser Butt Welds in HSLA Steel. Metals, 2021, 11, 1499.	1.0	1
67	Response of fabric insert injection overmolding PP based composites subjected to single and muti-impact. Frattura Ed Integrita Strutturale, 2019, 13, 242-248.	0.5	1
68	Influence of Materials and Their Constitutive Laws on the Stress Fields Produced in the Residual Limb of a Transfemoral Amputation. Lecture Notes in Mechanical Engineering, 2022, , 53-66.	0.3	1
69	Prediction of multiaxial fatigue life of notched maraging steel components manufactured by selective laser melting. Procedia Structural Integrity, 2022, 39, 273-280.	0.3	1
70	Thermal Stress Analysis in Particulate Composite Components. Strain, 2003, 39, 49-56.	1.4	0
71	Study on the Selection of Critical Electro Discharge Machining Surface Parameters Based on Robust Design of Experiments. , 2005, , 853.		0
72	Residual Stress Evaluation on X 36 Cr Mo 17 HSM Finished Mould Steel. Materials Science Forum, 2006, 514-516, 559-563.	0.3	0

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73	Assessment of acoustic, thermal and mechanical properties of epoxy composites reinforced with expanded clay particles. CiÃªncia & Tecnologia Dos Materiais, 2016, 28, 34-39.	0.5	0
74	A Study of the Shot Peening Effect on the Fatigue Life Improvement of Al 7475-T7351 3PB Specimens. Structural Integrity, 2019, , 335-341.	0.8	0
75	Study of materials applied to an orthopaedic external circular fixator. , 2009, , .		0
76	Design of ergonomic leisure chair. , 2009, , .		0
77	Multiphase numerical modelling of metallic particle composites. , 2009, , .		0
78	Effect of machining parameters on the mechanical properties of high dosage short â€“carbon- fiber reinforced composites. Frattura Ed Integrita Strutturale, 2019, 13, 249-256.	0.5	0
79	Fatigue crack growth in Ti-6Al-4V specimens produced by Laser Powder Bed Fusion and submitted to Hot Isostatic Pressing. Theoretical and Applied Fracture Mechanics, 2022, 118, 103231.	2.1	0
80	Overloading effect on transient fatigue crack growth of Ti-6Al-4V parts produced by Laser Powder Bed Fusion. Procedia Structural Integrity, 2022, 37, 330-335.	0.3	0