

Ricardo Baptista

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5246361/publications.pdf>

Version: 2024-02-01

36
papers

610
citations

623734

14
h-index

610901

24
g-index

36
all docs

36
docs citations

36
times ranked

521
citing authors

#	ARTICLE	IF	CITATIONS
1	Morphological and mechanical characterization of 3D printed PLA scaffolds with controlled porosity for trabecular bone tissue replacement. <i>Materials Science and Engineering C</i> , 2021, 118, 111528.	7.3	84
2	Effect of high graphite filler contents on the mechanical and tribological failure behavior of epoxy matrix composites. <i>Theoretical and Applied Fracture Mechanics</i> , 2016, 85, 113-124.	4.7	59
3	An experimental study on mechanical properties of epoxy-matrix composites containing graphite filler. <i>Procedia Structural Integrity</i> , 2016, 1, 74-81.	0.8	42
4	Optimization of cruciform specimens for biaxial fatigue loading with direct multi search. <i>Theoretical and Applied Fracture Mechanics</i> , 2015, 80, 65-72.	4.7	41
5	Fatigue behaviour of welded joints with cracks, repaired by hammer peening. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2004, 27, 785-798.	3.4	38
6	Study of the fatigue behavior in welded joints of stainless steels treated by weld toe grinding and subjected to salt water corrosion. <i>International Journal of Fatigue</i> , 2008, 30, 453-462.	5.7	35
7	Failure of a crankshaft of an aeroengine: A contribution for an accident investigation. <i>Engineering Failure Analysis</i> , 2013, 35, 286-293.	4.0	32
8	Porosity and pore design influence on fatigue behavior of 3D printed scaffolds for trabecular bone replacement. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 117, 104378.	3.1	31
9	On the effect of design and fabrication parameters on mechanical performance of 3D printed PLA scaffolds. <i>Bioprinting</i> , 2020, 20, e00096.	5.8	30
10	Fatigue behavior and microstructural characterization of a high strength steel for welded railway rails. <i>International Journal of Fatigue</i> , 2018, 117, 1-8.	5.7	22
11	Fully Dynamic Numerical Simulation of the Hammer Peening Fatigue Life Improvement Technique. <i>Procedia Engineering</i> , 2011, 10, 1943-1948.	1.2	20
12	Numerical study of in-plane biaxial fatigue crack growth with different phase shift angle loadings on optimal specimen geometries. <i>Theoretical and Applied Fracture Mechanics</i> , 2016, 85, 16-25.	4.7	20
13	Failure analysis of a nose landing gear fork. <i>Engineering Failure Analysis</i> , 2017, 82, 554-565.	4.0	19
14	Failure analysis of the nose landing gear axle of an aircraft. <i>Engineering Failure Analysis</i> , 2019, 101, 113-120.	4.0	17
15	Experimental and numerical characterization of 3D-printed scaffolds under monotonic compression with the aid of micro-CT volume reconstruction. <i>Bio-Design and Manufacturing</i> , 2021, 4, 222-242.	7.7	14
16	Design optimization of cruciform specimens for biaxial fatigue loading. <i>Frattura Ed Integrita Strutturale</i> , 2014, 8, 118-126.	0.9	12
17	Characterization of titanium-hydroxyapatite biocomposites processed by dip coating. <i>Bulletin of Materials Science</i> , 2016, 39, 263-272.	1.7	12
18	Effect of severe operation conditions on the degradation state of radiant coils in pyrolysis furnaces. <i>Engineering Failure Analysis</i> , 2015, 56, 194-203.	4.0	11

#	ARTICLE	IF	CITATIONS
19	Numerical study of fatigue crack initiation and propagation on optimally designed cruciform specimens. <i>Procedia Structural Integrity</i> , 2016, 1, 98-105.	0.8	10
20	Fatigue behavior of different geometry scaffolds for bone replacement. <i>Procedia Structural Integrity</i> , 2019, 17, 539-546.	0.8	8
21	Design and failure modes of a standard railway catenary cantilever support. <i>Engineering Failure Analysis</i> , 2020, 107, 104217.	4.0	7
22	Algorithm for automatic fatigue crack growth simulation on welded high strength steels. <i>Frattura Ed Integrita Strutturale</i> , 2019, 13, 257-268.	0.9	7
23	Micro-crack propagation on a biomimetic bone like composite material studied with the extended finite element method. <i>Procedia Structural Integrity</i> , 2016, 1, 18-25.	0.8	6
24	Design and development of a digital stethoscope encapsulation for simultaneous acquisition of phonocardiography and electrocardiography signals: the SmartHeart case study. <i>Journal of Medical Engineering and Technology</i> , 2020, 44, 153-161.	1.4	6
25	Optimal Cruciform Specimen Design Using the Direct Multi-search Method and Design Variable Influence Study. <i>Procedia Structural Integrity</i> , 2017, 5, 659-666.	0.8	5
26	Experimental and numerical investigation on the fatigue behaviour of friction stirred channel plates. <i>Engineering Failure Analysis</i> , 2019, 103, 57-69.	4.0	5
27	Numerical study of the Epsilon TB30 aircraft frame. <i>Engineering Failure Analysis</i> , 2020, 117, 104966.	4.0	4
28	T-Stress on a cruciform specimen: A preliminary study for a new crack propagation model. <i>Procedia Structural Integrity</i> , 2020, 25, 186-194.	0.8	3
29	Development and Characterization of Films for Food Application Incorporating Porphyran Extracted from <i>Porphyra dioica</i> . <i>Coatings</i> , 2022, 12, 148.	2.6	3
30	Numerical Simulation of the Fatigue Behaviour of a Friction Stirred Channel Aluminium Alloy. <i>MATEC Web of Conferences</i> , 2018, 165, 21008.	0.2	2
31	Optimization of a cruciform specimen for fatigue crack growth under in and out-of-phase in-plane biaxial loading conditions. <i>Mechanics of Advanced Materials and Structures</i> , 2023, 30, 1649-1666.	2.6	2
32	Design and Printing Parameters Effect on PLA Fused Filament Fabrication Scaffolds. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 131-136.	0.4	1
33	On the influence of different in-plane biaxial loading conditions over FCG lives. <i>International Journal of Fatigue</i> , 2022, 157, 106714.	5.7	1
34	Fatigue crack propagation direction under different loading conditions using MTS and MSS criteria. <i>Procedia Structural Integrity</i> , 2022, 37, 57-64.	0.8	1
35	Processing of near-net-shape dental crowns by conventional alumina slip casting in gypsum mould. <i>Microscopy and Microanalysis</i> , 2015, 21, 84-85.	0.4	0
36	An algorithm for fatigue crack growth applied to mixed and biaxial mode loadings. <i>Procedia Structural Integrity</i> , 2019, 17, 547-554.	0.8	0