

# Ricardo Baptista

## List of Publications by Year in descending order

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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	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
2	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
3	Development and Characterization of Films for Food Application Incorporating Porphyrin Extracted from <i>Porphyra dioica</i> . <i>Coatings</i> , 2022, 12, 148.	2.6	3
4	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
5	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
6	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
7	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
8	Design and failure modes of a standard railway catenary cantilever support. <i>Engineering Failure Analysis</i> , 2020, 107, 104217.	4.0	7
9	Numerical study of the Epsilon TB30 aircraft frame. <i>Engineering Failure Analysis</i> , 2020, 117, 104966.	4.0	4
10	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
11	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
12	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
13	Design and Printing Parameters Effect on PLA Fused Filament Fabrication Scaffolds. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 131-136.	0.4	1
14	Fatigue behavior of different geometry scaffolds for bone replacement. <i>Procedia Structural Integrity</i> , 2019, 17, 539-546.	0.8	8
15	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
16	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
17	Failure analysis of the nose landing gear axle of an aircraft. <i>Engineering Failure Analysis</i> , 2019, 101, 113-120.	4.0	17
18	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

#	ARTICLE	IF	CITATIONS
19	Numerical Simulation of the Fatigue Behaviour of a Friction Stirred Channel Aluminium Alloy. MATEC Web of Conferences, 2018, 165, 21008.	0.2	2
20	Fatigue behavior and microstructural characterization of a high strength steel for welded railway rails. International Journal of Fatigue, 2018, 117, 1-8.	5.7	22
21	Failure analysis of a nose landing gear fork. Engineering Failure Analysis, 2017, 82, 554-565.	4.0	19
22	Optimal Cruciform Specimen Design Using the Direct Multi-search Method and Design Variable Influence Study. Procedia Structural Integrity, 2017, 5, 659-666.	0.8	5
23	An experimental study on mechanical properties of epoxy-matrix composites containing graphite filler. Procedia Structural Integrity, 2016, 1, 74-81.	0.8	42
24	Numerical study of in-plane biaxial fatigue crack growth with different phase shift angle loadings on optimal specimen geometries. Theoretical and Applied Fracture Mechanics, 2016, 85, 16-25.	4.7	20
25	Effect of high graphite filler contents on the mechanical and tribological failure behavior of epoxy matrix composites. Theoretical and Applied Fracture Mechanics, 2016, 85, 113-124.	4.7	59
26	Numerical study of fatigue crack initiation and propagation on optimally designed cruciform specimens. Procedia Structural Integrity, 2016, 1, 98-105.	0.8	10
27	Micro-crack propagation on a biomimetic bone like composite material studied with the extended finite element method. Procedia Structural Integrity, 2016, 1, 18-25.	0.8	6
28	Characterization of titanium-hydroxyapatite biocomposites processed by dip coating. Bulletin of Materials Science, 2016, 39, 263-272.	1.7	12
29	Processing of near-net-shape dental crowns by conventional alumina slip casting in gypsum mould. Microscopy and Microanalysis, 2015, 21, 84-85.	0.4	0
30	Effect of severe operation conditions on the degradation state of radiant coils in pyrolysis furnaces. Engineering Failure Analysis, 2015, 56, 194-203.	4.0	11
31	Optimization of cruciform specimens for biaxial fatigue loading with direct multi search. Theoretical and Applied Fracture Mechanics, 2015, 80, 65-72.	4.7	41
32	Design optimization of cruciform specimens for biaxial fatigue loading. Frattura Ed Integrita Strutturale, 2014, 8, 118-126.	0.9	12
33	Failure of a crankshaft of an aeroengine: A contribution for an accident investigation. Engineering Failure Analysis, 2013, 35, 286-293.	4.0	32
34	Fully Dynamic Numerical Simulation of the Hammer Peening Fatigue Life Improvement Technique. Procedia Engineering, 2011, 10, 1943-1948.	1.2	20
35	Study of the fatigue behavior in welded joints of stainless steels treated by weld toe grinding and subjected to salt water corrosion. International Journal of Fatigue, 2008, 30, 453-462.	5.7	35
36	Fatigue behaviour of welded joints with cracks, repaired by hammer peening. Fatigue and Fracture of Engineering Materials and Structures, 2004, 27, 785-798.	3.4	38