Rui F Martins

List of Publications by Year
in descending order

51 papers	392 citations	759233 12 h-index	888059 17 g-index
52 all docs	52 docs citations	52 times ranked	314 citing authors

#	Article	IF	Citations
1	Failure analysis of crankshafts used in maritime V12 diesel engines. Engineering Failure Analysis, 2018, 92, 466-479.	4.0	35
2	Primary standards for measuring flow rates from 100 nl/min to 1 ml/min â€“ gravimetric principle. Biomedizinische Technik, 2015, 60, 301-16.	0.8	29
3	Modelling fatigue crack propagation in CT specimens. Fatigue and Fracture of Engineering Materials and Structures, 2008, 31, 452-465.	3.4	25
4	Numerical simulation of residual stresses induced by TIG butt-welding of thin plates made of AISI 316L stainless steel. Procedia Structural Integrity, 2017, 5, 633-639.	0.8	22
5	Fatigue fracture morphology of AISI H13 steel obtained by additive manufacturing. International Journal of Fracture, 2022, 235, 79-98.	2.2	22
6	Quasistatic and fatigue behavior of an AISI H13 steel obtained by additive manufacturing and conventional method. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 3384-3398.	3.4	21
7	Design, Metallurgical Features, and Mechanical Behaviour of NiTi Endodontic Instruments from Five Different Heat-Treated Rotary Systems. Materials, 2022, 15, 1009.	2.9	16
8	Failure analysis of fuel tanks of a lightweight ship. Engineering Failure Analysis, 2013, 35, 272-285.	4.0	15
9	Assessment of drug delivery devices. Biomedizinische Technik, 2015, 60, 347-57.	0.8	15
10	Fatigue crack growth under cyclic torsional loading. Theoretical and Applied Fracture Mechanics, 2016, 85, 56-66.	4.7	15
11	A failure analysis study of wet liners in maritime diesel engines. Engineering Failure Analysis, 2002, 9, 403-421.	4.0	13
12	Evaluation of Design, Metallurgy, Microhardness, and Mechanical Properties of Glide Path Instruments: A Multimethod Approach. Journal of Endodontics, 2021, 47, 1917-1923.	3.1	13
13	A fracture mechanics analysis on the fatigue behaviour of cruciform joints of duplex stainless steel. Fatigue and Fracture of Engineering Materials and Structures, 2003, 26, 791-810.	3.4	12
14	A fatigue and creep study in austenitic stainless steel 316L used in exhaust pipes of naval gas turbines. Fatigue and Fracture of Engineering Materials and Structures, 2004, 27, 861-871.	3.4	12
15	Influence of Mn addition on cyclic deformation behaviour of bainitic rail steels. International Journal of Fatigue, 2020, 132, 105362.	5.7	12
16	Development of an experimental setup for microflow measurement using interferometry. Flow Measurement and Instrumentation, 2020, 75, 101789.	2.0	10
17	Study on SLM manufacturing of teeth used for dental tools testing. MATEC Web of Conferences, 2017, 94, 03002.	0.2	9
18	Fatigue Life Assessment in Bainitic Steels Based on The Cumulative Strain Energy Density. Applied Sciences (Switzerland), 2020, 10, 7774.	2.5	9

#	Article	IF	Citations
19	Fatigue Resistance of Rotary Endodontic Files Submitted to Axial Motion in Multiplanar Canals Manufactured by 3D Printing. Procedia Engineering, 2016, 160, 117-122.	1.2	7
20	A failure analysis of exhaust systems for naval gas turbines. Part II: Design changes. Engineering Failure Analysis, 2009, 16, 1324-1338.	4.0	6
21	Failure analysis of a pull rod actuator of an ATOX raw mill used in the cement production process. Engineering Failure Analysis, 2017, 76, 99-114.	4.0	6
22	A failure analysis of exhaust systems for naval gas turbines. Part I: Fatigue life assessment. Engineering Failure Analysis, 2009, 16, 1314-1323.	4.0	5
23	Research on fatigue crack propagation in CT specimens subjected to loading modes I, II or III. Procedia Structural Integrity, 2016, 1, 134-141.	0.8	5
24	Failure analysis of a filling valve from a Brewery's beer filler. Engineering Failure Analysis, 2018, 93, 87-99.	4.0	5
25	Failure analysis of a ball mill located in a cementâ€™s production line. Engineering Failure Analysis, 2022, 138, 106339.	4.0	5
26	Failure Mechanisms on Exhaust Systems of Naval Gas Turbines. Materials Science Forum, 2008, 587-588, 946-950.	0.3	4
27	Failure analysis of bilge keels and its design improvement. Engineering Failure Analysis, 2013, 27, 232-249.	4.0	4
28	Fatigue resistance of rotary endodontic files subjected to planar and non-planar curvatures induced by in vitro tooth canals. International Journal of Structural Integrity, 2017, 8, 656-669.	3.3	4
29	Redesign of Exhaust Systems for Naval Gas Turbines: Usage of a New Cr-Mn Austenitic Stainless Steel. Materials Science Forum, 0, 636-637, 497-503.	0.3	3
30	Fatigue life assessment of an exhaust system for naval gas turbines. Procedia Engineering, 2011, 10, 2548-2553.	1.2	3
31	On the use of a new ultrahigh-strength Cr-Mn austenitic stainless steel in gas turbinÃ©s exhaust systems. Procedia Engineering, 2011, 10, 2554-2559.	1.2	3
32	Static and Fatigue Behaviour of the Main Section of a Fast Patrol Boat. Procedia Engineering, 2014, 74, 161-164.	1.2	3
33	Fatigue Crack Growth under Mode I, II and III for Plane-strain and Plane-stress Conditions. Procedia Engineering, 2014, 74, 232-235.	1.2	3
34	Calculation of Stress Intensity Factors K I , K II and K III of Cracked Components Submitted to Flexural and Torsional Loads. Procedia Engineering, 2016, 160, 131-136.	1.2	3
35	Design enhancements to a gas turbine's exhaust system used for naval propulsion. Engineering Failure Analysis, 2019, 102, 20-34.	4.0	3
36	On the fatigue resistance of endodontic files subjected to electrochemical polishing and an autoclaveâ€™s sterilisation cycle. International Journal of Structural Integrity, 2020, 12, 3-16.	3.3	2

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37	Uncertainty calculations in optical methods used for micro flow measurement. Measurement: Sensors, 2021, 18, 100155.	1.7	2
38	Development of an experimental setup for micro flow measurement using the front tracking method. Measurement: Sensors, 2021, 18, 100152.	1.7	2
39	Stress intensity factors KI, KII, KIII, Keq, induced at the crack tip of CT specimens subjected to torsional loading. Procedia Structural Integrity, 2020, 28, 74-83.	0.8	2
40	Metallurgical Study of a AISI 316L Stainless Steel Used in a Gas Turbine Exhaust System. Materials Science Forum, 2006, 514-516, 1521-1525.	0.3	1
41	Finite Element Modelling of Ni-Ti Shape Memory Alloys. Materials Science Forum, 0, 636-637, 1112-1118.	0.3	1
42	Calibration of infusion pumps using liquids whose physical properties differ from those of water. Journal of Physics: Conference Series, 2015, 588, 012053.	0.4	1
43	Structural resistance of lightweight stiffened panels submitted to buckling. Procedia Structural Integrity, 2019, 22, 110-117.	0.8	1
44	Cyclic fatigue resistance of ProTaper Gold and comparison with ProTaper Universal instruments. Revista Portuguesa De Estomatologia, Medicina Dentaria E Cirurgia Maxilofacial, 2018, 59, .	0.0	1
45	Failure Analysis of a Double-Cyclone located in a Cement Production Line. Procedia Structural Integrity, 2022, 37, 533-539.	0.8	1
46	Design of a self-contained breathing apparatus (SCBA) using a carbon fibre reinforced polymer and filament winding. CiÃªncia & Tecnologia Dos Materiais, 2017, 29, e108-e113.	0.5	0
47	Structural integrity analyses of two gas turbines exhaust systems used for naval propulsion. Procedia Structural Integrity, 2017, 5, 640-646.	0.8	0
48	Simulation of a three-dimensional craniofacial structure under the application of orthodontic loads. Journal of Strain Analysis for Engineering Design, 2018, 53, 408-420.	1.8	0
49	Enhancing the handling of standard substitution weights on a hydrostatic weighing apparatus. Acta IMEKO (2012), 2020, 9, 27.	0.7	0
50	Structural Integrity of Polymeric Components Produced by Additive Manufacturing (AM)â€"Polymer Applications. Polymers, 2021, 13, 4420.	4.5	0
51	Effect of elliptical defect orientation on the durability of specimens subjected to cyclic bending. Procedia Structural Integrity, 2022, 37, 606-613.	0.8	0