

# Rui F Martins

## List of Publications by Year in descending order

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51  
papers

392  
citations

759233

12  
h-index

888059

17  
g-index

52  
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52  
docs citations

52  
times ranked

314  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design, Metallurgical Features, and Mechanical Behaviour of NiTi Endodontic Instruments from Five Different Heat-Treated Rotary Systems. <i>Materials</i> , 2022, 15, 1009.	2.9	16
2	Fatigue fracture morphology of AISI H13 steel obtained by additive manufacturing. <i>International Journal of Fracture</i> , 2022, 235, 79-98.	2.2	22
3	Failure Analysis of a Double-Cyclone located in a Cement Production Line. <i>Procedia Structural Integrity</i> , 2022, 37, 533-539.	0.8	1
4	Effect of elliptical defect orientation on the durability of specimens subjected to cyclic bending. <i>Procedia Structural Integrity</i> , 2022, 37, 606-613.	0.8	0
5	Failure analysis of a ball mill located in a cement's production line. <i>Engineering Failure Analysis</i> , 2022, 138, 106339.	4.0	5
6	Quasistatic and fatigue behavior of an AISI H13 steel obtained by additive manufacturing and conventional method. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 3384-3398.	3.4	21
7	Evaluation of Design, Metallurgy, Microhardness, and Mechanical Properties of Glide Path Instruments: A Multimethod Approach. <i>Journal of Endodontics</i> , 2021, 47, 1917-1923.	3.1	13
8	Uncertainty calculations in optical methods used for micro flow measurement. <i>Measurement: Sensors</i> , 2021, 18, 100155.	1.7	2
9	Development of an experimental setup for micro flow measurement using the front tracking method. <i>Measurement: Sensors</i> , 2021, 18, 100152.	1.7	2
10	Structural Integrity of Polymeric Components Produced by Additive Manufacturing (AM) Polymer Applications. <i>Polymers</i> , 2021, 13, 4420.	4.5	0
11	Influence of Mn addition on cyclic deformation behaviour of bainitic rail steels. <i>International Journal of Fatigue</i> , 2020, 132, 105362.	5.7	12
12	Development of an experimental setup for microflow measurement using interferometry. <i>Flow Measurement and Instrumentation</i> , 2020, 75, 101789.	2.0	10
13	Fatigue Life Assessment in Bainitic Steels Based on The Cumulative Strain Energy Density. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7774.	2.5	9
14	On the fatigue resistance of endodontic files subjected to electrochemical polishing and an autoclave's sterilisation cycle. <i>International Journal of Structural Integrity</i> , 2020, 12, 3-16.	3.3	2
15	Enhancing the handling of standard substitution weights on a hydrostatic weighing apparatus. <i>Acta IMEKO (2012)</i> , 2020, 9, 27.	0.7	0
16	Stress intensity factors KI, KII, KIII, Keq, induced at the crack tip of CT specimens subjected to torsional loading. <i>Procedia Structural Integrity</i> , 2020, 28, 74-83.	0.8	2
17	Design enhancements to a gas turbine's exhaust system used for naval propulsion. <i>Engineering Failure Analysis</i> , 2019, 102, 20-34.	4.0	3
18	Structural resistance of lightweight stiffened panels submitted to buckling. <i>Procedia Structural Integrity</i> , 2019, 22, 110-117.	0.8	1

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19	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
20	Failure analysis of crankshafts used in maritime V12 diesel engines. Engineering Failure Analysis, 2018, 92, 466-479.	4.0	35
21	Failure analysis of a filling valve from a Brewery's beer filler. Engineering Failure Analysis, 2018, 93, 87-99.	4.0	5
22	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
23	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
24	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
25	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
26	Structural integrity analyses of two gas turbines exhaust systems used for naval propulsion. Procedia Structural Integrity, 2017, 5, 640-646.	0.8	0
27	Study on SLM manufacturing of teeth used for dental tools testing. MATEC Web of Conferences, 2017, 94, 03002.	0.2	9
28	Fatigue resistance of rotary endodontic files subjected to planar and non-planar curvatures induced by <i>in vitro</i> tooth canals. International Journal of Structural Integrity, 2017, 8, 656-669.	3.3	4
29	Fatigue crack growth under cyclic torsional loading. Theoretical and Applied Fracture Mechanics, 2016, 85, 56-66.	4.7	15
30	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
31	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
32	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
33	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
34	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
35	Assessment of drug delivery devices. Biomedizinische Technik, 2015, 60, 347-57.	0.8	15
36	Static and Fatigue Behaviour of the Main Section of a Fast Patrol Boat. Procedia Engineering, 2014, 74, 161-164.	1.2	3

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37	Fatigue Crack Growth under Mode I, II and III for Plane-strain and Plane-stress Conditions. <i>Procedia Engineering</i> , 2014, 74, 232-235.	1.2	3
38	Failure analysis of fuel tanks of a lightweight ship. <i>Engineering Failure Analysis</i> , 2013, 35, 272-285.	4.0	15
39	Failure analysis of bilge keels and its design improvement. <i>Engineering Failure Analysis</i> , 2013, 27, 232-249.	4.0	4
40	Fatigue life assessment of an exhaust system for naval gas turbines. <i>Procedia Engineering</i> , 2011, 10, 2548-2553.	1.2	3
41	On the use of a new ultrahigh-strength Cr-Mn austenitic stainless steel in gas turbine exhaust systems. <i>Procedia Engineering</i> , 2011, 10, 2554-2559.	1.2	3
42	A failure analysis of exhaust systems for naval gas turbines. Part II: Design changes. <i>Engineering Failure Analysis</i> , 2009, 16, 1324-1338.	4.0	6
43	A failure analysis of exhaust systems for naval gas turbines. Part I: Fatigue life assessment. <i>Engineering Failure Analysis</i> , 2009, 16, 1314-1323.	4.0	5
44	Modelling fatigue crack propagation in CT specimens. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2008, 31, 452-465.	3.4	25
45	Failure Mechanisms on Exhaust Systems of Naval Gas Turbines. <i>Materials Science Forum</i> , 2008, 587-588, 946-950.	0.3	4
46	Metallurgical Study of a AISI 316L Stainless Steel Used in a Gas Turbine Exhaust System. <i>Materials Science Forum</i> , 2006, 514-516, 1521-1525.	0.3	1
47	A fatigue and creep study in austenitic stainless steel 316L used in exhaust pipes of naval gas turbines. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2004, 27, 861-871.	3.4	12
48	A fracture mechanics analysis on the fatigue behaviour of cruciform joints of duplex stainless steel. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2003, 26, 791-810.	3.4	12
49	A failure analysis study of wet liners in maritime diesel engines. <i>Engineering Failure Analysis</i> , 2002, 9, 403-421.	4.0	13
50	Finite Element Modelling of Ni-Ti Shape Memory Alloys. <i>Materials Science Forum</i> , 0, 636-637, 1112-1118.	0.3	1
51	Redesign of Exhaust Systems for Naval Gas Turbines: Usage of a New Cr-Mn Austenitic Stainless Steel. <i>Materials Science Forum</i> , 0, 636-637, 497-503.	0.3	3