

# C R F Azevedo

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

1,592  
citations

394421

19  
h-index

315739

38  
g-index

65  
all docs

65  
docs citations

65  
times ranked

1410  
citing authors

#	ARTICLE	IF	CITATIONS
1	Selection of fuel cladding material for nuclear fission reactors. <i>Engineering Failure Analysis</i> , 2011, 18, 1943-1962.	4.0	226
2	Failure analysis of a crude oil pipeline. <i>Engineering Failure Analysis</i> , 2007, 14, 978-994.	4.0	142
3	Failure analysis of aluminum cable steel reinforced (ACSR) conductor of the transmission line crossing the Paran River. <i>Engineering Failure Analysis</i> , 2002, 9, 645-664.	4.0	96
4	Fretting fatigue in overhead conductors: Rig design and failure analysis of a Grosbeak aluminium cable steel reinforced conductor. <i>Engineering Failure Analysis</i> , 2009, 16, 136-151.	4.0	89
5	Ti-Al-V powder metallurgy (PM) via the hydrogenation-dehydrogenation (HDH) process. <i>Journal of Alloys and Compounds</i> , 2003, 353, 217-227.	5.5	87
6	Failure analysis of a railway copper contact strip. <i>Engineering Failure Analysis</i> , 2004, 11, 829-841.	4.0	68
7	Failure analysis of a commercially pure titanium plate for osteosynthesis. <i>Engineering Failure Analysis</i> , 2003, 10, 153-164.	4.0	62
8	Failure analysis of surgical implants in Brazil. <i>Engineering Failure Analysis</i> , 2002, 9, 621-633.	4.0	57
9	A review on neutron-irradiation-induced hardening of metallic components. <i>Engineering Failure Analysis</i> , 2011, 18, 1921-1942.	4.0	57
10	Erosion-fatigue of steam turbine blades. <i>Engineering Failure Analysis</i> , 2009, 16, 2290-2303.	4.0	54
11	An overview of the recurrent failures of duplex stainless steels. <i>Engineering Failure Analysis</i> , 2019, 97, 161-188.	4.0	45
12	Impact of copper nanoparticles on tribofilm formation determined by pin-on-disc tests with powder supply: Addition of artificial third body consisting of Fe <sub>3</sub> O <sub>4</sub> , Cu and graphite. <i>Tribology International</i> , 2017, 110, 103-112.	5.9	43
13	Three-dimensional analysis of fracture, corrosion and wear surfaces. <i>Engineering Failure Analysis</i> , 2010, 17, 286-300.	4.0	37
14	Failure analysis of forged and induction hardened steel cold work rolls. <i>Engineering Failure Analysis</i> , 2004, 11, 951-966.	4.0	32
15	Microstructure and phase relationships in Ti-Al-Si system. <i>Materials Science and Technology</i> , 1999, 15, 869-877.	1.6	29
16	Calculated ternary diagram of Ti-Al-Si system. <i>Materials Science and Technology</i> , 2000, 16, 372-381.	1.6	28
17	Effect of Cu particles as an interfacial media addition on the friction coefficient and interface microstructure during (steel/steel) pin on disc tribotest. <i>Wear</i> , 2015, 330-331, 70-78.	3.1	27
18	Cracking of 2.25Cr-1.0Mo steel tube/stationary tube-sheet weldment of a heat-exchanger. <i>Engineering Failure Analysis</i> , 2008, 15, 695-710.	4.0	21

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19	Fracture of an aircraft's landing gear. <i>Engineering Failure Analysis</i> , 2002, 9, 265-275.	4.0	20
20	Experimental and calculated Ti-rich corner of the Al-Si-Ti ternary phase diagram. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2002, 26, 353-373.	1.6	18
21	Aircraft landing gear failure: fracture of the outer cylinder lug. <i>Engineering Failure Analysis</i> , 2002, 9, 1-15.	4.0	18
22	Assessment of the Ti-Rich Corner of the Ti-Si Phase Diagram: The Recent Dispute About the Eutectoid Reaction. <i>Materials Research</i> , 2016, 19, 942-953.	1.3	18
23	Effect of austenite grain refinement on morphology of product of bainitic reaction in austempered ductile iron. <i>Materials Science and Technology</i> , 1993, 9, 705-710.	1.6	17
24	Environmental effects during fatigue testing: fractographic observation of commercially pure titanium plate for cranio-facial fixation. <i>Engineering Failure Analysis</i> , 2003, 10, 431-442.	4.0	16
25	Characterization and evolution of the coefficient of friction during pin on disc tribotest: Comparison between C10200 Cu, AA6082-T6 Al and C36000 brass pins under varying normal loads. <i>Tribology International</i> , 2019, 138, 403-414.	5.9	16
26	Investigation of Stress Corrosion Cracking of Austenitic, Duplex and Super Duplex Stainless Steels under Drop Evaporation Test using Synthetic Seawater. <i>Materials Research</i> , 2019, 22, .	1.3	16
27	Failure analysis of a cast steel railway wheel. <i>Engineering Failure Analysis</i> , 2004, 11, 817-828.	4.0	15
28	Failure analysis of a gas pipeline. <i>Engineering Failure Analysis</i> , 2004, 11, 387-400.	4.0	15
29	Microstructural Characterization of Ni-Base Superalloy As-Cast Single Crystal (CMSX-4). <i>International Journal of Metalcasting</i> , 2021, 15, 676-691.	1.9	15
30	Failure analysis of a heat-exchanger serpentine. <i>Engineering Failure Analysis</i> , 2005, 12, 193-200.	4.0	14
31	Pin-on-disc tribotests with the addition of Cu particles as an interfacial media: Characterization of disc tribosurfaces using SEM-FIB techniques. <i>Tribology International</i> , 2016, 100, 351-359.	5.9	13
32	Can the drop evaporation test evaluate the stress corrosion cracking susceptibility of the welded joints of duplex and super duplex stainless steels?. <i>Engineering Failure Analysis</i> , 2019, 99, 235-247.	4.0	13
33	Failure analysis of turbo-blower blades. <i>Engineering Failure Analysis</i> , 2005, 12, 49-59.	4.0	12
34	The effect of the austenite grain refinement on the tensile and impact properties of cast Hadfield steel. <i>Materials Research</i> , 2018, 21, .	1.3	12
35	Characterisation of metallic piercings. <i>Engineering Failure Analysis</i> , 2003, 10, 255-263.	4.0	10
36	Assessment of the Ti-rich corner of the Ti-Si phase diagram using two sublattices to describe the Ti <sub>5</sub> Si <sub>3</sub> phase. <i>REM: International Engineering Journal</i> , 2017, 70, 201-207.	0.4	10

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37	Selected cases of failure analysis and the regulatory agencies in Brazil. Part 1: Aviation, railway and health. <i>Engineering Failure Analysis</i> , 2019, 97, 354-373.	4.0	10
38	Failure analysis of a martensitic stainless steel (CA-15M) roll manufactured by centrifugal casting. Part I: Material and fractographic characterization. <i>Engineering Failure Analysis</i> , 2014, 36, 343-352.	4.0	9
39	Bending fatigue of stainless steel shear pins belonging to a hydroelectric plant. <i>Engineering Failure Analysis</i> , 2009, 16, 1126-1140.	4.0	8
40	Failure analysis of a martensitic stainless steel (CA-15M) roll manufactured by centrifugal casting. Part II: Thermal stress analysis by FEA. <i>Engineering Failure Analysis</i> , 2015, 48, 78-93.	4.0	8
41	Investigating the Provenance of Iron Artifacts of the Royal Iron Factory of São João de Ipanema by Hierarchical Cluster Analysis of EDS Microanalyses of Slag Inclusions. <i>Materials Research</i> , 2017, 20, 119-129.	1.3	8
42	Microstructural and mechanical characterization of as-cast nickel-based superalloy (IN-713C). <i>International Journal of Metalcasting</i> , 2021, 15, 1129-1148.	1.9	8
43	Retrieval and analysis of surgical implants in Brazil: The need for proper regulation. <i>Journal of Failure Analysis and Prevention</i> , 2001, 1, 53-61.	0.0	7
44	Selected cases of failure analysis and the regulatory agencies in Brazil. Part 2: Electric energy and oil. <i>Engineering Failure Analysis</i> , 2019, 99, 108-125.	4.0	7
45	Effect of the Austenitization Route on the Bainitic Reaction Kinetics and Tensile Properties of an Alloyed Austempered Ductile Iron. <i>International Journal of Metalcasting</i> , 2021, 15, 1442-1455.	1.9	7
46	Resulting morphologies on quenching of titanium aluminide alloys. <i>Materials Science and Technology</i> , 1999, 15, 510-517.	1.6	5
47	Embrittlement of case hardened steel chain link. <i>Engineering Failure Analysis</i> , 2009, 16, 2311-2317.	4.0	5
48	The most frequent failure causes in super ferritic stainless steels: are they really super?. <i>Procedia Structural Integrity</i> , 2019, 17, 331-338.	0.8	5
49	Effect of solution heat treatment on the pitting corrosion behavior of a high Mn austenitic stainless steel in chloride solution. <i>Revista Escola De Minas</i> , 2015, 68, 91-96.	0.1	4
50	SIMPLIFICATION OF THE THERMODYNAMIC DESCRIPTION OF THE Ti-Si SYSTEM. <i>Tecnologia Em Metalurgia, Materiais E Mineracao</i> , 2016, 13, 91-97.	0.2	4
51	Failure analysis of belt/roll tribological pair used for the production of eucalypt fiber panels. <i>Engineering Failure Analysis</i> , 2008, 15, 165-181.	4.0	3
52	Archaeometry of ferrous artefacts from Luso-Brazilian archaeological sites near Ipanema River, Brazil. <i>Revista Escola De Minas</i> , 2015, 68, 187-193.	0.1	3
53	Failure analysis as a tool to optimize the design of a ring on disc tribotest investigating the role of surface roughness. <i>Engineering Failure Analysis</i> , 2015, 56, 131-141.	4.0	3
54	Effect of the cooling rate on the tensile strength of pearlitic lamellar graphite cast iron. <i>International Journal of Cast Metals Research</i> , 2020, 33, 201-217.	1.0	3

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55	Failure analysis of nickel 200 sintered filter cartridges. Engineering Failure Analysis, 2005, 12, 167-179.	4.0	2
56	Three-dimensional reconstruction of compacted graphite in vermicular cast iron by manual serial sectioning. Revista Escola De Minas, 2015, 68, 307-312.	0.1	2
57	Influence of Welding Energy on Intergranular and Pitting Corrosion Susceptibility of UNS S32205 Duplex Stainless-steel Joints. Materials Research, 2022, 25, .	1.3	2
58	Environmentally assisted fracture of sintered nickel cartridges. Engineering Failure Analysis, 2007, 14, 1266-1279.	4.0	1
59	Archaeometallurgy of ferrous artefacts of the Patri�tica Iron Factory (XIX century, Ouro Preto,) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.4	1
60	Special Issue "A Tribute to A. Martens" Engineering Failure Analysis, 2014, 43, 1.	4.0	0
61	The Sixth International Conference on Engineering Failure Analysis. Engineering Failure Analysis, 2015, 56, 1.	4.0	0
62	The Sixth International Conference on Engineering Failure Analysis - Part 2. Engineering Failure Analysis, 2016, 61, 1.	4.0	0
63	Microstructural and mechanical characterisation of the Simon Bolivar's iron bridge structure, 19th century, Arequipa, Peru. REM: International Engineering Journal, 2020, 73, 523-530.	0.4	0
64	History of the Recrystallisation of Metals: A Summary of Ideas and Findings until the 1950s. Materials Research, 2020, 23, .	1.3	0