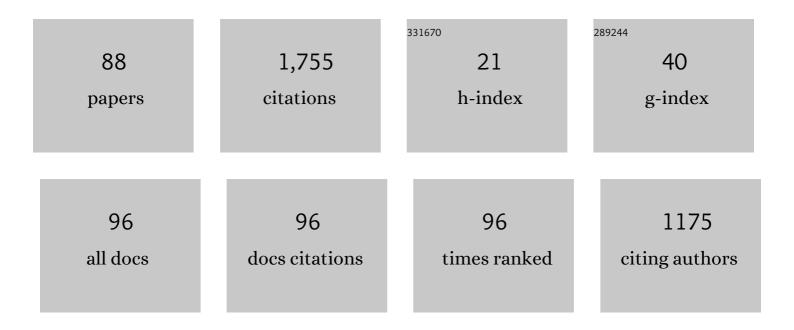
Raul B Rebak

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Analysis of inconel 600 oxidized under loss-of-coolant accident conditions: A multi-modal approach. Corrosion Science, 2022, 195, 109950.	6.6	1
2	Microstructure and tensile behavior of powder metallurgy FeCrAl accident tolerant fuel cladding. Journal of Nuclear Materials, 2022, 560, 153524.	2.7	15
3	Hydrogen Isotopes Permeation in Clean or Unoxidized FeCrAl Alloys: A Review. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2022, 53, 773-793.	2.2	11
4	Zinc water chemistry reduces dissolution of FeCrAl for nuclear fuel cladding. Corrosion Science, 2022, 198, 110156.	6.6	5
5	Oxidation Resistance in 1200°C Steam of a FeCrAl Alloy Fabricated by Three Metallurgical Processes. Jom, 2022, 74, 1690-1697.	1.9	11
6	Hydrogen Permeation in FeCrAl APMT Alloy for Accident Tolerant Fuel Cladding. Corrosion, 2022, 78, 449-456.	1.1	4
7	Advanced Characterization Techniques Enabling Commercial Development of Accident Tolerant Fuel Cladding. Microscopy and Microanalysis, 2021, 27, 2910-2912.	0.4	0
8	Uniform corrosion of FeCrAl cladding tubing for accident tolerant fuels in light water reactors. Journal of Nuclear Materials, 2021, 554, 153090.	2.7	25
9	Evolution of Microstructure and Surface Characteristics of FeCrAl alloys when Subjected to Flow Boiling Testing. Journal of Nuclear Materials, 2021, 557, 153269.	2.7	4
10	Characterization of Kanthal APMT and T91 oxidation at beyond design-basis accident temperatures. Corrosion Science, 2020, 171, 108598.	6.6	8
11	Resistance of Ferritic FeCrAl Alloys to Stress Corrosion Cracking for Light Water Reactor Fuel Cladding Applications. Corrosion, 2020, 76, .	1.1	5
12	Mechanical and chemical properties of PVD and cold spray Cr-coatings on Zircaloy-4. Journal of Nuclear Materials, 2020, 541, 152420.	2.7	48
13	Hydrothermal corrosion of 2nd generation FeCrAl alloys for accident tolerant fuel cladding. Journal of Nuclear Materials, 2020, 536, 152221.	2.7	45
14	Crevice Corrosion Repassivation of Ni-Cr-Mo Alloys by Cooling. Corrosion, 2019, 75, 604-615.	1.1	7
15	Radiation damage and irradiation-assisted stress corrosion cracking of additively manufactured 316L stainless steels. Journal of Nuclear Materials, 2019, 513, 33-44.	2.7	89
16	Electrochemical Behavior of Accident Tolerant Fuel Cladding Materials under Simulated Light Water Reactor Conditions. , 2019, , 231-243.		2
17	Versatile Oxide Films Protect FeCrAl Alloys Under Normal Operation and Accident Conditions in Light Water Power Reactors. Jom, 2018, 70, 176-185.	1.9	35
18	Oxide inclusions in laser additive manufactured stainless steel and their effects on impact toughness and stress corrosion cracking behavior. Journal of Nuclear Materials, 2018, 499, 182-190.	2.7	201

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#	Article	IF	CITATIONS
19	Oxidation Characteristics of Two FeCrAl Alloys in Air and Steam from 800°C to 1300°C. Jom, 2018, 70, 1484-1492.	1.9	46
20	Utilizing FeCrAl Oxidation Resistance Properties in Water, Air and Steam for Accident Tolerant Fuel Cladding. ECS Transactions, 2018, 85, 3-12.	0.5	16
21	Utilizing the FeCrAl Alloys Oxidation Properties in Water, Air, and Steam. ECS Meeting Abstracts, 2018, , .	0.0	0
22	Hydrothermal Corrosion of SiC and FeCrAl for Accident Tolerant Fuel Cladding. ECS Meeting Abstracts, 2018, , .	0.0	0
23	Improving Nuclear Power Plant Safety with FeCrAl Alloy Fuel Cladding. MRS Advances, 2017, 2, 1217-1224.	0.9	30
24	Localized Corrosion Characteristics of Nickel Alloys: A Review. Acta Metallurgica Sinica (English) Tj ETQq0 0 0 rgE	3T /Overloo 2.9	ck 10 Tf 50 5

25	Assessing the Pitting Corrosion Resistance of Oilfield Nickel Alloys at Elevated Temperatures by Electrochemical Methods. Corrosion, 2017, 73, 666-673.	1.1	11
26	Corrosion fatigue crack growth of laser additively-manufactured 316L stainless steel in high temperature water. Corrosion Science, 2017, 127, 120-130.	6.6	66
27	Materials for accident tolerant fuels. Corrosion Reviews, 2017, 35, 127.	2.0	0
28	Characterization of oxides formed on iron-chromium-aluminum alloy in simulated light water reactor environments. Corrosion Reviews, 2017, 35, 177-188.	2.0	30
29	Comparative Study of the Crevice Corrosion Resistance of UNS S30400 and UNS S31600 Stainless Steels in the Context of Galvele's Model. Corrosion, 2017, 73, 41-52.	1.1	13
30	Iron-chrome-aluminum alloy cladding for increasing safety in nuclear power plants. EPJ Nuclear Sciences & Technologies, 2017, 3, 34.	0.7	43
31	Uniform corrosion of FeCrAl alloys in LWR coolant environments. Journal of Nuclear Materials, 2016, 479, 36-47.	2.7	158
32	Hydrogen Diffusion in FeCrAl Alloys for Light Water Reactors Cladding Applications. , 2016, , .		3
33	Alloy Selection for Accident Tolerant Fuel Cladding in Commercial Light Water Reactors. Metallurgical and Materials Transactions E, 2015, 2, 197-207.	0.5	14
33 34	Alloy Selection for Accident Tolerant Fuel Cladding in Commercial Light Water Reactors. Metallurgical and Materials Transactions E, 2015, 2, 197-207. Inhibition Mechanism of Phosphate Ions on Chloride-Induced Crevice Corrosion of Alloy 22. Corrosion, 2015, 71, 574-584.	0.5	14 6
	Metallurgical and Materials Transactions E, 2015, 2, 197-207. Inhibition Mechanism of Phosphate Ions on Chloride-Induced Crevice Corrosion of Alloy 22.		

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37	Sulfide stress cracking of nickel-containing low-alloy steels. Corrosion Reviews, 2014, 32, 101-128.	2.0	22
38	Materials in Nuclear Waste Disposition. Jom, 2014, 66, 455-460.	1.9	5
39	Advanced Steels for Accident Tolerant Fuel Cladding in Current Light Water Reactors. , 2014, , 433-442.		1
40	Introduction to Corrosion in Energy Production. Jom, 2013, 65, 1021-1023.	1.9	1
41	Oxyanions as inhibitors of chloride-induced crevice corrosion of Alloy 22. Corrosion Science, 2013, 68, 72-83.	6.6	33
42	2012 Research Topical Symposium Proceedings – "Corrosion Degradation of Materials in Nuclear Power Reactors—Lessons Learned and Future Challenges― Corrosion, 2013, 69, 951-952.	1.1	1
43	Resistance of Ferritic Steels to Stress Corrosion Cracking in High Temperature Water. , 2013, , .		4
44	Assessing Residual Strains in Nuclear Power Reactor Internal Components Weld Mockups of Nickel Alloys Using EBSD. , 2013, , .		0
45	Efficiency of inhibitors for chloride-induced crevice corrosion of Alloy 22. Materials Research Society Symposia Proceedings, 2012, 1475, 495.	0.1	1
46	Effect of the Composition of Nickel Alloys on the Anodic Behavior in Aqueous Solutions of Chloride and Bicarbonate. Materials Research Society Symposia Proceedings, 2012, 1475, 513.	0.1	0
47	Environmentally Assisted Cracking Research of Engineering Alloys for Nuclear Waste Repository Containers. Materials Research Society Symposia Proceedings, 2012, 1475, 449.	0.1	1
48	Phosphate Inhibition Effect on Chloride-Induced Crevice Corrosion of Alloy 22. Materials Research Society Symposia Proceedings, 2012, 1475, 483.	0.1	0
49	Crevice corrosion kinetics of nickel alloys bearing chromium and molybdenum. Electrochimica Acta, 2012, 76, 94-101.	5.2	67
50	Materials and Corrosion Research in the Yucca Mountain Project. ECS Transactions, 2011, 33, 1-14.	0.5	0
51	Stress corrosion cracking (SCC) of nickel-based alloys. , 2011, , 273-306.		14
52	Sulfidic corrosion in refineries $\hat{a} \in $ a review. Corrosion Reviews, 2011, 29, .	2.0	28
53	Electrochemical Studies on Silicate and Bicarbonate lons for Corrosion Inhibitors. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 2563-2574.	2.2	9
54	Passivation and Depassivation of Alloy 22 in Acidic Chloride Solutions. Journal of the Electrochemical Society, 2010, 157, C1.	2.9	30

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#	Article	IF	CITATIONS
55	Determination of Crevice Corrosion Susceptibility of Alloy 22 Using Different Electrochemical Techniques. Materials Research Society Symposia Proceedings, 2010, 1265, 1.	0.1	Ο
56	Photoelectrochemical Investigation of Radiation-Enhanced Shadow Corrosion Phenomenon. Journal of ASTM International, 2010, 7, 1-18.	0.2	4
57	Anionic and Cationic Effects on the Crevice Corrosion Susceptibility of Alloy 22. Materials Research Society Symposia Proceedings, 2009, 1193, 161.	0.1	2
58	Iron-Based Amorphous Metals: High-Performance Corrosion-Resistant Material Development. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 1289-1305.	2.2	129
59	Materials for the Nuclear Renaissance. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 2802-2802.	2.2	0
60	Microstructural and Stress Corrosion Cracking Characteristics of Austenitic Stainless Steels Containing Silicon. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 2824-2836.	2.2	12
61	Stifling of Crevice Corrosion in Alloy 22 During Constant Potential Tests. Journal of Pressure Vessel Technology, Transactions of the ASME, 2009, 131, .	0.6	5
62	Material corrosion issues for nuclear waste disposition in Yucca Mountain. Jom, 2008, 60, 40-43.	1.9	8
63	Environmental Testing of Iron-Based Amorphous Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 225-234.	2.2	16
64	Materials Issues for Advanced Nuclear Systems. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 211-211.	2.2	0
65	The Long-Term Environmental Degradation of Zirconium Alloys in Contact With Spent Nuclear Fuel: A Review. , 2008, , .		0
66	Environmentally assisted cracking of nickel alloys —a review. , 2008, , 435-446.		5
67	The role of hydrogen and creep in intergranular stress corrosion cracking of Alloy 600 and Alloy 690 in PWR primary water environments — a review. , 2008, , 123-141.		8
68	Corrosion resistance of thermally sprayed high-boron iron-based amorphous-metal coatings: Fe _{49.7} Cr _{17.7} Mn _{1.9} Mo _{7.4} W _{1.6} B _{15.2 Journal of Materials Research, 2007, 22, 2297-2311.}	<td>ub>828</td>	ub> 8 28
69	Long-Term Immersion Testing of Alloy 22 and Titanium Grade 7 Double U-Bend Specimens. , 2007, , .		0
70	Anodic Behavior of Specimens Prepared From a Full-Diameter Alloy 22 Fabricated Mockup Container for Nuclear Waste. Journal of Pressure Vessel Technology, Transactions of the ASME, 2007, 129, 729-736.	0.6	0
71	Hydrogen Diffusion and Trapping Effects in Low and Medium Carbon Steels for Subsurface Reinforcement in the Proposed Yucca Mountain Repository. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2007, 38, 348-355.	2.2	1
72	Long-Term Corrosion Potential Behavior of Alloy 22 in Hot 5 m CaCl2 + 5 m Ca(NO3)2 Brines. , 2007, , .		2

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#	Article	IF	CITATIONS
73	The Long-Term Corrosion Test Facility at Lawrence Livermore National Laboratory. , 2007, , .		5
74	Measuring the Repassivation Potential of Alloy 22 Using the Potentiodynamic-Galvanostatic-Potentiostatic Method. Journal of ASTM International, 2007, 4, 101230.	0.2	15
75	Crevice Repassivation Potential of Alloy 22 in High-Nitrate Dust Deliquescence Type Environments. , 2007, , .		3
76	Enhanced Corrosion Resistance of Iron-Based Amorphous Alloys. , 2007, , .		1
77	Anodic Polarization Behavior of Titanium Grade 7 in Dust Deliquescence Salt Environments. , 2007, , .		2
78	Salt Fog Testing Iron-Based Amorphous Alloys. Materials Research Society Symposia Proceedings, 2006, 985, 1.	0.1	2
79	Mechanisms of Inhibition of Crevice Corrosion in Alloy 22. Materials Research Society Symposia Proceedings, 2006, 985, 1.	0.1	8
80	Repassivation Potential of Alloy 22 in Chloride plus Nitrate Solutions using the Potentiodynamic-Galvanostatic-Potentiostatic Method. Materials Research Society Symposia Proceedings, 2006, 985, 1.	0.1	5
81	Oxide Film Aging on Alloy 22 in Halide Containing Solutions. Materials Research Society Symposia Proceedings, 2006, 985, 1.	0.1	3
82	Impact of Small Chemistry Variations in Plate and Weld Filler Metal on the Corrosion Performance of Ni-Cr-Mo Alloys2. Journal of ASTM International, 2006, 3, 100401.	0.2	0
83	Electrochemical Testing of Gas Tungsten Arc Welded and Reduced Pressure Electron Beam Welded Alloy 22. , 2006, , .		0
84	Using electrochemical methods to determine alloy 22's crevice corrosion repassivation potential. Jom, 2005, 57, 56-61.	1.9	59
85	Influence of halide ions and alloy microstructure on the passive and localized corrosion behavior of alloy 22. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2005, 36, 1179-1185.	2.2	22
86	Characterization of the Corrosion Behavior of Alloy 22 after Five Years Immersion in Multi-ionic Solutions. Materials Research Society Symposia Proceedings, 2002, 757, II4.4.1.	0.1	8
87	Passive Corrosion Behavior of Alloy 22 in Multi-Ionic Aqueous Environments. , 2002, , 67.		0
88	The mechanism of stress corrosion cracking of alloy 600 in high temperature water. Corrosion Science, 1996, 38, 971-988.	6.6	88