Kristian Vinter Dahl

List of Publications by Year
in descending order

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Version: 2024-02-01

34	466	759233 12	713466 21
papers	citations	h-index	g-index

34	34	34	335
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nitrogen diffusion and nitrogen depth profiles in expanded austenite: Experimental assessment, numerical simulation and role of stress. Materials Science and Technology, 2008, 24, 159-167.	1.6	68
2	Multiscale characterization of White Etching Cracks (WEC) in a 100Cr6 bearing from a thrust bearing test rig. Wear, 2017, 370-371, 73-82.	3.1	44
3	Investigation on long-term creep rupture properties and microstructure stability of Feâ€“Ni based alloy Niâ€“23Crâ€“7W at 700Â°C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 565, 285-291.	5.6	40
4	KClâ€induced high temperature corrosion of selected commercial alloys. Materials and Corrosion - Werkstoffe Und Korrosion, 2015, 66, 1414-1429.	1.5	31
5	Application of Complementary Techniques for Advanced Characterization of White Etching Cracks. Praktische Metallographie/Practical Metallography, 2013, 50, 410-431.	0.3	28
6	Low-Temperature Nitriding of Deformed Austenitic Stainless Steels with Various Nitrogen Contents Obtained by Prior High-Temperature Solution Nitriding. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 4146-4159.	2.2	23
7	Corrosion behaviour of Ni and nickel aluminide coatings exposed in a biomass fired power plant for two years. Surface and Coatings Technology, 2019, 362, 355-365.	4.8	23
8	KClâ€induced high temperature corrosion of selected commercial alloys. Materials and Corrosion - Werkstoffe Und Korrosion, 2016, 67, 26-38.	1.5	21
9	Thermodynamic and kinetic modelling: Creep resistant materials. Materials Science and Technology, 2008, 24, 149-158.	1.6	20
10	Modelling Cr depletion under a growing Cr₂O₃layer on austenitic stainless steel: the influence of grain boundary diffusion. Modelling and Simulation in Materials Science and Engineering, 2009, 17, 035009.	2.0	17
11	High Temperature Solution Nitriding of Stainless Steels; Current Status and Future Trends. HTM - Journal of Heat Treatment and Materials, 2020, 75, 69-82.	0.2	15
12	Effect of microstructure on KCl corrosion attack of modified AISI 310 steel. Materials at High Temperatures, 2018, 35, 243-254.	1.0	13
13	3D X-ray computerized tomography of White Etching Cracks (WEC). Materials Characterization, 2019, 150, 78-87.	4.4	12
14	Application of aluminum diffusion coatings to mitigate the KClâ€induced highâ€temperature corrosion. Materials and Corrosion - Werkstoffe Und Korrosion, 2017, 68, 82-94.	1.5	11
15	Effects of Different Fuel Specifications and Operation Conditions on the Performance of Coated and Uncoated Superheater Tubes in Two Different Biomass-Fired Boilers. ACS Applied Energy Materials, 2018, 1, 1463-1475.	5.1	11
16	Microstructural investigations of Ni and Ni2Al3 coatings exposed in biomass power plants. Materials at High Temperatures, 2018, 35, 255-266.	1.0	10
17	Microstructural investigations of pure nickel exposed to KCl induced high temperature corrosion. Materials at High Temperatures, 2015, 32, 44-49.	1.0	8
18	Effect of service exposure on KCl corrosion attack of AISI 347H FG steel. Journal of Materials Science, 2019, 54, 13787-13809.	3.7	8

#	Article	IF	Citations
19	Estimation of metal temperature of MCrAlY coated IN738 components based on interdiffusion behaviour. Energy Materials, 2006, 1, 106-115.	0.1	7
20	Characterization of pack cemented Ni₂Al₃ coating exposed to KCl(s) induced corrosion at 600ÂÂ°C. Materials at High Temperatures, 2018, 35, 267-274.	1.0	7
21	Synchrotron X-ray diffraction investigation of the effect of cryogenic treatment on the microstructure of Ti-6Al-4V. Applied Surface Science, 2020, 502, 144087.	6.1	7
22	KClâ€induced corrosion of Niâ€based alloys containing 35â€“45 wt% Cr. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 1486-1506.	1.5	6
23	Hard Surface Layers by Pack Boriding and Gaseous Thermo-Reactive Deposition and Diffusion Treatments. Materials Performance and Characterization, 2017, 6, 475-491.	0.3	6
24	Grey-scale conversion X-ray mapping by EDS of multielement and multiphase layered microstructures. Journal of Microscopy, 2007, 225, 31-40.	1.8	5
25	New Stainless Steel Alloys for Low Temperature Surface Hardening?. BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik, 2015, 160, 406-412.	1.0	5
26	Microstructure of Precipitation Hardenable Powder Metallurgical Ni Alloys Containing 35 to 45Âpct Cr and 3.5 to 6Âpct Nb. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 4796-4809.	2.2	4
27	Identification of Precipitates in an IN792 Gas Turbine Blade after Service Exposure. Praktische Metallographie/Practical Metallography, 2013, 50, 432-450.	0.3	4
28	Danish Experiences in Biomass Corrosion and Recent Areas of Research. Corrosion, 2019, 75, 358-366.	1.1	3
29	Kinetics of interstitial uptake during gaseous carbo-oxidizing of titanium foils. Thermochimica Acta, 2021, 703, 178991.	2.7	3
30	New strategy for testing new high nitrogen bearing steel for offshore wind turbines. Wind Engineering, 2016, 40, 426-430.	1.9	2
31	Probing the Chemistry of Adhesion between a 316L Substrate and Spin-on-Glass Coating. Langmuir, 2018, 34, 3170-3176.	3.5	2
32	Corrosion of welds in biomass power plants. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 585-592.	1.5	2
33	Nitridation of grate in a biomassâ€fired boiler. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 1461-1475.	1.5	0
34	Diffraction based identification of an elusive FCC phase in carbo-oxidized titanium. Materials Characterization, 2021, 180, 111435.	4.4	0