

Melanie Montgomery

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Investigation on the Hygroscopicity of Deposits at the Cold-End of Biomass and Coal-Fired Plants. <i>Energy & Fuels</i> , 2021, 35, 8006-8022.	2.5	1
2	Annealing of Shot Peened Austenitic Superheater Tubes and Its Consequences for Steamside Oxidation. <i>Metallography, Microstructure, and Analysis</i> , 2020, 9, 603-614.	0.5	1
3	Breakdown mechanism of γ -Al ₂ O ₃ on Ni ₂ Al ₃ coatings exposed in a biomass fired power plant. <i>Corrosion Science</i> , 2020, 170, 108583.	3.0	7
4	Effect of service exposure on KCl corrosion attack of AISI 347H FG steel. <i>Journal of Materials Science</i> , 2019, 54, 13787-13809.	1.7	8
5	Corrosion behaviour of Ni and nickel aluminide coatings exposed in a biomass fired power plant for two years. <i>Surface and Coatings Technology</i> , 2019, 362, 355-365.	2.2	23
6	Nitridation of grate in a biomass-fired boiler. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 1461-1475.	0.8	0
7	KCl-induced corrosion of Ni-based alloys containing 35-45 wt% Cr. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 1486-1506.	0.8	6
8	Corrosion of welds in biomass power plants. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 585-592.	0.8	2
9	Danish Experiences in Biomass Corrosion and Recent Areas of Research. <i>Corrosion</i> , 2019, 75, 358-366.	0.5	3
10	Effects of Different Fuel Specifications and Operation Conditions on the Performance of Coated and Uncoated Superheater Tubes in Two Different Biomass-Fired Boilers. <i>ACS Applied Energy Materials</i> , 2018, 1, 1463-1475.	2.5	11
11	Effect of microstructure on KCl corrosion attack of modified AISI 310 steel. <i>Materials at High Temperatures</i> , 2018, 35, 243-254.	0.5	13
12	Microstructural investigations of Ni and Ni ₂ Al ₃ coatings exposed in biomass power plants. <i>Materials at High Temperatures</i> , 2018, 35, 255-266.	0.5	10
13	Characterization of pack cemented Ni ₂ Al ₃ coating exposed to KCl(s) induced corrosion at 600°C. <i>Materials at High Temperatures</i> , 2018, 35, 267-274.	0.5	7
14	Influence of Preoxidation on High-Temperature Corrosion of a FeCrAl Alloy Under Conditions Relevant to Biomass Firing. <i>Oxidation of Metals</i> , 2018, 89, 99-122.	1.0	6
15	Time and Temperature Effects on Alkali Chloride Induced High Temperature Corrosion of Superheaters during Biomass Firing. <i>Energy & Fuels</i> , 2018, 32, 7991-7999.	2.5	20
16	Pre-oxidation and its effect on reducing high-temperature corrosion of superheater tubes during biomass firing. <i>Surface Engineering</i> , 2017, 33, 428-432.	1.1	5
17	Effect of flue gas composition on deposit induced high temperature corrosion under laboratory conditions mimicking biomass firing. Part II: Exposures in SO ₂ containing atmospheres. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2017, 68, 515-528.	0.8	13
18	Effect of flue gas composition on deposit induced high temperature corrosion under laboratory conditions mimicking biomass firing. Part I: Exposures in oxidizing and chlorinating atmospheres. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2017, 68, 499-514.	0.8	18

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19	Influence of preoxidation on high temperature corrosion of a Ni-based alloy under conditions relevant to biomass firing. <i>Surface and Coatings Technology</i> , 2017, 319, 76-87.	2.2	3
20	Corrosion in the Flue Gas Cleaning System of a Biomass-Fired Power Plant. <i>Journal of Failure Analysis and Prevention</i> , 2017, 17, 195-204.	0.5	6
21	Complementary Methods for the Characterization of Corrosion Products on a Plant-Exposed Superheater Tube. <i>Metallography, Microstructure, and Analysis</i> , 2017, 6, 22-35.	0.5	3
22	KCl-induced high temperature corrosion of selected commercial alloys. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2016, 67, 26-38.	0.8	21
23	KCl-induced high temperature corrosion of selected commercial alloys. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2015, 66, 1414-1429.	0.8	31
24	High temperature corrosion during biomass firing: improved understanding by depth resolved characterisation of corrosion products. <i>Materials at High Temperatures</i> , 2015, 32, 92-101.	0.5	11
25	Effect of Water Vapor on High-Temperature Corrosion under Conditions Mimicking Biomass Firing. <i>Energy & Fuels</i> , 2015, 29, 5802-5815.	2.5	28
26	High temperature corrosion investigation in an oxyfuel combustion test rig. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2015, 66, 257-269.	0.8	6
27	Failure of Titanium Condenser Tubes After 24 Years Power Plant Service. <i>Journal of Failure Analysis and Prevention</i> , 2014, 14, 554-563.	0.5	5
28	High Temperature Corrosion under Laboratory Conditions Simulating Biomass-Firing: A Comprehensive Characterization of Corrosion Products. <i>Energy & Fuels</i> , 2014, 28, 6447-6458.	2.5	39
29	In situ corrosion testing of various nickel alloys at MÅ¸bjerg waste incineration plant. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2013, 64, 14-25.	0.8	10
30	Microscopical investigation of steamside oxide on X20CrMoV121 superheater tubes. <i>Materials at High Temperatures</i> , 2012, 29, 199-204.	0.5	0
31	Steam oxidation of X20CrMoV121: Comparison of laboratory exposures and in situ exposure in power plants. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2012, 63, 674-684.	0.8	4
32	Phase Identification and Internal Stress Analysis of Steamside Oxides on Plant Exposed Superheater Tubes. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 1477-1486.	1.1	10
33	Experiences with high temperature corrosion at straw-firing power plants in Denmark. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2011, 62, 593-605.	0.8	40
34	Microscopical investigation of steamside oxide on X20CrMoV121 superheater tubes. <i>Materials at High Temperatures</i> , 2011, 28, 355-360.	0.5	0
35	Microstructural investigation of the oxide formed on TP 347H FG during long-term steam oxidation. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2010, 61, 665-675.	0.8	33
36	Fireside corrosion and steamside oxidation of 9%12%Cr martensitic steels exposed for long term testing. <i>Corrosion Engineering Science and Technology</i> , 2009, 44, 196-210.	0.7	21

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37	Development of the inner oxide zone upon steam oxidation of an austenitic stainless steel. <i>Materials at High Temperatures</i> , 2009, 26, 39-44.	0.5	9
38	Oxidation of X20 in Water Vapour: The Effect of Temperature and Oxygen Partial Pressure. <i>Oxidation of Metals</i> , 2009, 71, 201-218.	1.0	25
39	Lab-scale Investigation of Deposit-induced Chlorine Corrosion of Superheater Materials under Simulated Biomass-firing Conditions. Part 1: Exposure at 560 ÅC^{â€}. <i>Energy & Fuels</i> , 2009, 23, 3457-3468.	2.5	60
40	Potential high temperature corrosion problems due to co-firing of biomass and fossil fuels. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2008, 59, 783-793.	0.8	32
41	Field test corrosion experiences when co-firing straw and coal: 10 year status within Elsam. <i>Materials at High Temperatures</i> , 2007, 24, 343-349.	0.5	6
42	Materials problems and solutions in biomass fired plants. <i>Energy Materials</i> , 2006, 1, 227-237.	0.1	11
43	Biomass firing: Danish experiences. <i>Energy Materials</i> , 2006, 1, 17-19.	0.1	3
44	Steam Oxidation of TP 347H FG in Power Plants. <i>Materials Science Forum</i> , 2006, 522-523, 181-188.	0.3	10
45	Experiences with Inconel 625 in Biomass and Waste Incineration Plants. <i>Materials Science Forum</i> , 2006, 522-523, 523-530.	0.3	23
46	Investigation on steam oxidation behaviour of TP347H FG Part 1: Exposure at 256 bar. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2005, 56, 459-467.	0.8	22
47	Investigation of steam oxidation behaviour of TP347H FG. Part 2: Exposure at 91 bar. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2005, 56, 542-549.	0.8	8
48	Long term steam oxidation of TP 347H FG in power plants. <i>Materials at High Temperatures</i> , 2005, 22, 263-2670.	0.5	13
49	Field Investigation of Steamside Oxidation of TP347H. <i>Materials Science Forum</i> , 2004, 461-464, 1007-1014.	0.3	11
50	Field test corrosion experiments in Denmark with biomass fuels. Part 1: Straw-firing. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2002, 53, 121-131.	0.8	62
51	Field test corrosion experiments in Denmark with biomass fuels. Part 2: Co-firing of straw and coal. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2002, 53, 185-194.	0.8	29
52	On-Plant Test of TÃœV HCM12 and ASME T23 Alloys for Use as Water Wall Materials. <i>Key Engineering Materials</i> , 2000, 171-174, 169-178.	0.4	2
53	In-situ corrosion investigation at MasnedÃ, CHP plant - a straw-fired power plant. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 1999, 50, 579-584.	0.8	59
54	The influence of combustion-derived pollutants on limestone deterioration: 2. The wet deposition of pollutant species. <i>Corrosion Science</i> , 1996, 38, 267-278.	3.0	20