

Juho Lehmusto

List of Publications by Year in descending order

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papers

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191
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#	ARTICLE	IF	CITATIONS
1	Comparison of potassium chloride and potassium carbonate with respect to their tendency to cause high temperature corrosion of stainless 304L steel. <i>Fuel Processing Technology</i> , 2013, 105, 98-105.	3.7	60
2	High temperature oxidation of metallic chromium exposed to eight different metal chlorides. <i>Corrosion Science</i> , 2011, 53, 3315-3323.	3.0	42
3	Effect of pressure and impurities on oxidation in supercritical CO ₂ . <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 1400-1409.	0.8	31
4	Initial oxidation mechanisms of stainless steel Sanicro 28 (35Fe27Cr31Ni) exposed to KCl, NaCl, and K ₂ CO ₃ under dry and humid conditions at 535±%°C. <i>Corrosion Science</i> , 2019, 155, 29-45.	3.0	16
5	Studies on the Partial Reactions Between Potassium Chloride and Metallic Chromium Concerning Corrosion at Elevated Temperatures. <i>Oxidation of Metals</i> , 2012, 77, 129-148.	1.0	15
6	The Effects of KCl, NaCl and K ₂ CO ₃ on the High-Temperature Oxidation Onset of Sanicro 28 Steel. <i>Oxidation of Metals</i> , 2016, 85, 565-598.	1.0	15
7	The Impact of Impurities on Alloy Behavior in Supercritical CO ₂ at 700±°C. <i>Oxidation of Metals</i> , 2020, 94, 95-111.	1.0	15
8	The Onset of Potassium Chloride Induced High Temperature Corrosion: A Novel Experimental Approach. <i>Oxidation of Metals</i> , 2014, 82, 437-456.	1.0	14
9	Superheater deposits and corrosion in temperature gradient – Laboratory studies into effects of flue gas composition, initial deposit structure, and exposure time. <i>Energy</i> , 2021, 228, 120494.	4.5	12
10	Applicability of ToF-SIMS and stable oxygen isotopes in KCl-induced corrosion studies at high temperatures. <i>Corrosion Science</i> , 2017, 125, 1-11.	3.0	10
11	The Effect of Temperature on the Formation of Oxide Scales Regarding Commercial Superheater Steels. <i>Oxidation of Metals</i> , 2018, 89, 251-278.	1.0	8
12	Temperature-Gradient-Driven Aging Mechanisms in Alkali-Bromide- and Sulfate-Containing Ash Deposits. <i>Energy & Fuels</i> , 2019, 33, 5883-5892.	2.5	7
13	Should the oxygen source be considered in the initiation of KCl-induced high-temperature corrosion?. <i>Corrosion Science</i> , 2021, 183, 109332.	3.0	5
14	Comprehensive insights into competitive oxidation/sulfidation reactions on binary ferritic alloys at high temperatures. <i>Corrosion Science</i> , 2022, , 110236.	3.0	5
15	The Effect of Deposit Temperature on the Catalytic SO ₂ -to-SO ₃ Conversion in a Copper Flash Smelting Heat Recovery Boiler. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 434-439.	1.0	4
16	The Effect of Oxygen Source on the Reaction Mechanism of Potassium Chloride-Induced High-Temperature Corrosion. <i>Corrosion</i> , 2018, 74, 1431-1445.	0.5	4
17	Pre-oxidation as a Means to Increase Corrosion Resistance of Commercial Superheater Steels. <i>Oxidation of Metals</i> , 2019, 91, 311-326.	1.0	4
18	Catalytic Role of Process Dust in SO ₂ -to-SO ₃ Conversion in Flash Smelting Heat Recovery Boilers. <i>Jom</i> , 2019, 71, 3305-3313.	0.9	4

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19	Detailed Studies on the High Temperature Corrosion Reactions between Potassium Chloride and Metallic Chromium. <i>Materials Science Forum</i> , 0, 696, 218-223.	0.3	3
20	The Effect of Pretreatment on the Corrosion Resistance of Superheater Materials. <i>Solid State Phenomena</i> , 0, 227, 309-312.	0.3	3
21	Detection of gaseous species during KCl-induced high-temperature corrosion by the means of CPFAAS and Cl-APi-TOF. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2020, 71, 222-231.	0.8	3
22	A Tracer Study on sCO ₂ Corrosion with Multiple Oxygen-Bearing Impurities. <i>Oxidation of Metals</i> , 2021, 96, 571-587.	1.0	3
23	Deposit Build-up and Corrosion in a Copper Flash Smelting Heat Recovery Boiler. <i>Oxidation of Metals</i> , 2017, 87, 199-214.	1.0	2
24	Production and use of radioactive [⁸² Br]KBr in high-temperature corrosion studies. <i>Corrosion Science</i> , 2019, 148, 24-30.	3.0	1
25	Metal Rod Surfaces after Exposure to Used Cooking Oils. <i>Sustainability</i> , 2022, 14, 355.	1.6	1
26	Comparison of High-Temperature Oxidation Onset Behavior of Sanicro 28 Steel with KCl, NaCl and K ₂ CO ₃ . <i>Solid State Phenomena</i> , 0, 227, 393-396.	0.3	0
27	Effect of annealing and supercritical CO ₂ exposure at 750°C on the tensile properties of stainless steel and Ni-based structural alloys. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 0, , .	0.8	0
28	Amino Acids Reduce Mild Steel Corrosion in Used Cooking Oils. <i>Sustainability</i> , 2022, 14, 3858.	1.6	0