

# Juho Lehmusto

## List of Publications by Year in descending order

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docs citations

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times ranked

191  
citing authors

#	ARTICLE	IF	CITATIONS
1	Amino Acids Reduce Mild Steel Corrosion in Used Cooking Oils. Sustainability, 2022, 14, 3858.	1.6	0
2	Comprehensive insights into competitive oxidation/sulfidation reactions on binary ferritic alloys at high temperatures. Corrosion Science, 2022, , 110236.	3.0	5
3	Metal Rod Surfaces after Exposure to Used Cooking Oils. Sustainability, 2022, 14, 355.	1.6	1
4	Should the oxygen source be considered in the initiation of KCl-induced high-temperature corrosion?. Corrosion Science, 2021, 183, 109332.	3.0	5
5	A Tracer Study on sCO <sub>2</sub> Corrosion with Multiple Oxygen-Bearing Impurities. Oxidation of Metals, 2021, 96, 571-587.	1.0	3
6	Superheater deposits and corrosion in temperature gradient – Laboratory studies into effects of flue gas composition, initial deposit structure, and exposure time. Energy, 2021, 228, 120494.	4.5	12
7	Detection of gaseous species during KCl-induced high-temperature corrosion by the means of CPFAAS and Cl-TOF. Materials and Corrosion - Werkstoffe Und Korrosion, 2020, 71, 222-231.	0.8	3
8	The Impact of Impurities on Alloy Behavior in Supercritical CO <sub>2</sub> at 700Å°C. Oxidation of Metals, 2020, 94, 95-111.	1.0	15
9	Production and use of radioactive [82Br]KBr in high-temperature corrosion studies. Corrosion Science, 2019, 148, 24-30.	3.0	1
10	Initial oxidation mechanisms of stainless steel Sanicro 28 (35Fe27Cr31Ni) exposed to KCl, NaCl, and K <sub>2</sub> CO <sub>3</sub> under dry and humid conditions at 535Å°C. Corrosion Science, 2019, 155, 29-45.	3.0	16
11	Temperature-Gradient-Driven Aging Mechanisms in Alkali-Bromide- and Sulfate-Containing Ash Deposits. Energy & Fuels, 2019, 33, 5883-5892.	2.5	7
12	Pre-oxidation as a Means to Increase Corrosion Resistance of Commercial Superheater Steels. Oxidation of Metals, 2019, 91, 311-326.	1.0	4
13	Effect of pressure and impurities on oxidation in supercritical CO <sub>2</sub> . Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 1400-1409.	0.8	31
14	Catalytic Role of Process Dust in SO <sub>2</sub> -to-SO <sub>3</sub> Conversion in Flash Smelting Heat Recovery Boilers. Jom, 2019, 71, 3305-3313.	0.9	4
15	The Effect of Temperature on the Formation of Oxide Scales Regarding Commercial Superheater Steels. Oxidation of Metals, 2018, 89, 251-278.	1.0	8
16	The Effect of Deposit Temperature on the Catalytic SO <sub>2</sub> -to-SO <sub>3</sub> Conversion in a Copper Flash Smelting Heat Recovery Boiler. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 434-439.	1.0	4
17	The Effect of Oxygen Source on the Reaction Mechanism of Potassium Chloride-Induced High-Temperature Corrosion. Corrosion, 2018, 74, 1431-1445.	0.5	4
18	Deposit Build-up and Corrosion in a Copper Flash Smelting Heat Recovery Boiler. Oxidation of Metals, 2017, 87, 199-214.	1.0	2

#	ARTICLE	IF	CITATIONS
19	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
20	The Effects of KCl, NaCl and K <sub>2</sub> CO <sub>3</sub> on the High-Temperature Oxidation Onset of Sanicro 28 Steel. <i>Oxidation of Metals</i> , 2016, 85, 565-598.	1.0	15
21	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
22	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
23	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
24	High temperature oxidation of metallic chromium exposed to eight different metal chlorides. <i>Corrosion Science</i> , 2011, 53, 3315-3323.	3.0	42
25	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
26	The Effect of Pretreatment on the Corrosion Resistance of Superheater Materials. <i>Solid State Phenomena</i> , 0, 227, 309-312.	0.3	3
27	Comparison of High-Temperature Oxidation Onset Behavior of Sanicro 28 Steel with KCl, NaCl and K <sub>2</sub> CO <sub>3</sub> . <i>Solid State Phenomena</i> , 0, 227, 393-396.	0.3	0
28	Effect of annealing and supercritical CO <sub>2</sub> 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