

T Jonsson

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Oxidation of Binary FeCr Alloys (Feâ€“2.25Cr, Feâ€“10Cr, Feâ€“18Cr and Feâ€“25Cr) in O ₂ and in O ₂ +H ₂ O Environment at 600Â°C. Oxidation of Metals, 2011, 75, 183-207.	1.0	90
2	Oxidation of iron at 400â€“600Â°C in dry and wet O ₂ . Corrosion Science, 2010, 52, 1560-1569.	3.0	78
3	The influence of small amounts of KCl(s) on the high temperature corrosion of a Feâ€“2.25Crâ€“1Mo steel at 400 and 500Â°C. Materials and Corrosion - Werkstoffe Und Korrosion, 2011, 62, 606-615.	0.8	75
4	The Influence of KCl on the Corrosion of an Austenitic Stainless Steel (304L) in Oxidizing Humid Conditions at 600Â°C: A Microstructural Study. Oxidation of Metals, 2009, 72, 213-239.	1.0	67
5	An ESEM in situ investigation of initial stages of the KCl induced high temperature corrosion of a Feâ€“2.25Crâ€“1Mo steel at 400 Â°C. Corrosion Science, 2011, 53, 2233-2246.	3.0	67
6	Oxidation After Breakdown of the Chromium-Rich Scale on Stainless Steels at High Temperature: Internal Oxidation. Oxidation of Metals, 2016, 85, 509-536.	1.0	63
7	Oxidation of Feâ€“10Cr in O ₂ and in O ₂ +H ₂ O environment at 600Â°C: A microstructural investigation. Corrosion Science, 2013, 75, 326-336.	3.0	50
8	Paralinear Oxidation of Chromium in O ₂ + H ₂ O Environment at 600â€“700Â°C. Oxidation of Metals, 2008, 70, 163-188.	1.0	49
9	An ESEM in situ investigation of the influence of H ₂ O on iron oxidation at 500Â°C. Corrosion Science, 2009, 51, 1914-1924.	3.0	46
10	The influence of silicon on the corrosion properties of FeCrAl model alloys in oxidizing environments at 600 Â°C. Corrosion Science, 2018, 144, 266-276.	3.0	43
11	Microstructural Investigation of Protective and Non-Protective Oxides on 11% Chromium Steel. Oxidation of Metals, 2006, 66, 295-319.	1.0	40
12	A Microstructural and Kinetic Investigation of the KCl-Induced Corrosion of an FeCrAl Alloy at 600Â°C. Oxidation of Metals, 2015, 84, 105-127.	1.0	40
13	The Effect of Traces of SO ₂ on Iron Oxidation: A Microstructural Study. Oxidation of Metals, 2007, 67, 193-213.	1.0	31
14	High-Temperature Oxidation of FeCr(Ni) Alloys: The Behaviour After Breakaway. Oxidation of Metals, 2017, 87, 333-341.	1.0	30
15	High temperature oxidation of chromium: Kinetic modeling and microstructural investigation. Solid State Ionics, 2013, 240, 41-50.	1.3	28
16	Mitigation of Fireside Corrosion of Stainless Steel in Power Plants: A Laboratory Study of the Influences of SO ₂ and KCl on Initial Stages of Corrosion. Energy & Fuels, 2014, 28, 3102-3109.	2.5	27
17	Oxidation behavior of a Mo(Si,Al) ₂ composite at 900â€“1600Â°C in dry air. Journal of Materials Science, 2013, 48, 1511-1523.	1.7	26
18	Oxidation behavior of a Mo (Si, Al) ₂ -based composite at 300â€“1000Â°C. Intermetallics, 2010, 18, 633-640.	1.8	24

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19	Beyond breakaway corrosion – Influence of chromium, nickel and aluminum on corrosion of iron-based alloys at 600°C – $\text{C. Corrosion Science, 2020, 177, 108961.}$	3.0	24
20	Microstructural investigation of the effect of water vapour on the oxidation of alloy 353 MA in oxygen at 700 and 900°C. <i>Materials at High Temperatures, 2005, 22, 231-243.</i>	0.5	24
21	Grain contrast imaging in FIB and SEM. <i>Journal of Physics: Conference Series, 2008, 126, 012054.</i>	0.3	22
22	Oxidation of iron at 600°C – experiments and simulations. <i>Materials and Corrosion - Werkstoffe Und Korrosion, 2017, 68, 133-142.</i>	0.8	22
23	Microstructural Investigation of the HCl-Induced Corrosion of the Austenitic Alloy 310S (52Fe26Cr19Ni) at 500°C. <i>Oxidation of Metals, 2014, 81, 575-596.</i>	1.0	21
24	The Effect of H ₂ and H ₂ O on the Oxidation of 304L-Stainless Steel at 600°C: General Behaviour (Part I). <i>Oxidation of Metals, 2016, 85, 321-342.</i>	1.0	20
25	The influence of a KCl-rich environment on the corrosion attack of 304 L: 3D FIB/SEM and TEM investigations. <i>Corrosion Science, 2021, 183, 109315.</i>	3.0	20
26	Microstructural investigation of the KCl-induced corrosion of the austenitic alloy Sanicro 28 (35Fe27Cr31Ni) at 600°C. <i>Materials at High Temperatures, 2009, 26, 113-125.</i>	0.5	18
27	High Temperature Oxidation of the Austenitic (35Fe27Cr31Ni) Alloy Sanicro 28 in O ₂ +H ₂ O Environment. <i>Oxidation of Metals, 2010, 74, 93-111.</i>	1.0	18
28	Oxidation behavior at 300–1000°C of a (Mo,W)Si ₂ -based composite containing boride. <i>Intermetallics, 2010, 18, 77-86.</i>	1.8	18
29	Oxidation of Fe-2.25Cr-1Mo in presence of KCl(s) at 400°C – Crack formation and its influence on oxidation kinetics. <i>Corrosion Science, 2020, 163, 108234.</i>	3.0	17
30	High temperature corrosion behavior of FeCrAlSi model alloys in the presence of water vapor and KCl at 600°C – The influence of Cr content. <i>Corrosion Science, 2022, 198, 110114.</i>	3.0	16
31	Oxidation Driven Permeation of Iron Oxide Scales by Chloride from Experiment Guided First-Principles Modeling. <i>Journal of Physical Chemistry C, 2019, 123, 25957-25966.</i>	1.5	14
32	Secondary corrosion protection of FeCr(Al) model alloys at 600 °C – The influence of Cr and Al after breakaway corrosion. <i>Corrosion Science, 2021, 189, 109584.</i>	3.0	14
33	Influence of H ₂ O(g) on the Oxide Microstructure of the Stainless Steel 353MA at 900°C in Oxygen. <i>Journal of the Electrochemical Society, 2007, 154, C603.</i>	1.3	13
34	Critical Corrosion Phenomena on Superheaters in Biomass and Waste-Fired Boilers. <i>Journal of Iron and Steel Research International, 2007, 14, 35-39.</i>	1.4	13
35	A Comparative Study of the Initial Corrosion of KCl and PbCl ₂ on a Low-Alloyed Steel. <i>Oxidation of Metals, 2017, 87, 779-787.</i>	1.0	13
36	The influence of Si on the primary protection of lean FeCrAl model alloys in O ₂ and O ₂ +H ₂ O at 600 °C – A microstructural investigation. <i>Corrosion Science, 2021, 179, 109155.</i>	3.0	13

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37	Continuous KCl addition in high temperature exposures of 304â€” A way to mimic a boiler environment. Corrosion Science, 2020, 167, 108511.	3.0	13
38	Microstructural investigation of the initial oxidation at 1450Â°C and 1500Â°C of a Mo(Si,Al) ₂ -based composite. Materials at High Temperatures, 2009, 26, 137-143.	0.5	12
39	The Influence of Oxide-Scale Microstructure on KCl(s)-Induced Corrosion of Low-Alloyed Steel at 400Â°C. Oxidation of Metals, 2019, 91, 291-310.	1.0	12
40	The Influence of H ₂ O on Iron Oxidation at 600Â°C: A Microstructural Study. Materials Science Forum, 0, 595-598, 1005-1012.	0.3	11
41	Oxidation behaviour of a (Mo, W)Si ₂ -based composite in dry and wet oxygen atmospheres in the temperature range 350â€”950Â°C. Journal of the European Ceramic Society, 2009, 29, 2105-2118.	2.8	10
42	A Laboratory Study of the in Situ Sulfation of Alkali Chloride Rich Deposits: Corrosion Perspective. Energy & Fuels, 2016, 30, 7256-7267.	2.5	10
43	The effect of Ce on the high temperature oxidation properties of a Feâ€”22%Cr steel: microstructural investigation and EELS analysis. Materials at High Temperatures, 2015, 32, 118-122.	0.5	9
44	Microstructural investigation of the effect of water vapour on the oxidation of alloy 353 MA in oxygen at 700 and 900Â°C. Materials at High Temperatures, 2005, 22, 231-243.	0.5	8
45	Microstructural investigations of pure nickel exposed to KCl induced high temperature corrosion. Materials at High Temperatures, 2015, 32, 44-49.	0.5	8
46	Minor element effect on high temperature corrosion of a low-alloyed steel: Insight into alkali- and chlorine induced corrosion by means of atom probe tomography. Corrosion Science, 2021, 192, 109779.	3.0	8
47	Microstructural Study of the Influence of KCl and HCl on Preformed Corrosion Product Layers on Stainless Steel. Oxidation of Metals, 2017, 87, 801-811.	1.0	7
48	Investigating corrosion memory: The influence of previous boiler operation on current corrosion rate. Fuel Processing Technology, 2017, 156, 348-356.	3.7	7
49	Characterization of pack cemented Ni ₂ Al ₃ coating exposed to KCl(s) induced corrosion at 600Â°C. Materials at High Temperatures, 2018, 35, 267-274.	0.5	7
50	Strategies for High-Temperature Corrosion Simulations of Fe-Based Alloys Using the Calphad Approach: Part I. Journal of Phase Equilibria and Diffusion, 2021, 42, 403-418.	0.5	7
51	KClâ€”induced corrosion of Niâ€”based alloys containing 35â€”45 wt% Cr. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 1486-1506.	0.8	6
52	The Influence of KCl and HCl on the High-Temperature Oxidation of a Fe-2.25Cr-1Mo Steel at 400Â°C. Oxidation of Metals, 2020, 93, 29-52.	1.0	6
53	High temperature corrosion memory in a waste fired boiler â€” Influence of sulfur. Waste Management, 2021, 130, 30-37.	3.7	6
54	Thin foil analysis in the SEM. Journal of Physics: Conference Series, 2008, 126, 012075.	0.3	3

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55	Initial corrosion attack of 304L and T22 in 2 MW biomass gasifier: a microstructural investigation. <i>Materials at High Temperatures</i> , 2015, 32, 197-204.	0.5	2
56	HIGH TEMPERATURE CORROSION AND DIOXIN ABATEMENT USING SULFUR RECIRCULATION IN A WASTE-TO-ENERGY PLANT. <i>Detritus</i> , 2018, Volume 05 - March 2019, 1.	0.4	1