

Jian Xu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1941986/publications.pdf>

Version: 2024-02-01

22
papers

334
citations

1040056

9
h-index

839539

18
g-index

22
all docs

22
docs citations

22
times ranked

185
citing authors

#	ARTICLE	IF	CITATIONS
1	Acoustic emission during pitting corrosion of 304 stainless steel. Corrosion Science, 2011, 53, 1537-1546.	6.6	49
2	Acoustic emission response of sensitized 304 stainless steel during intergranular corrosion and stress corrosion cracking. Corrosion Science, 2013, 73, 262-273.	6.6	48
3	The effects of dissolved hydrogen on the corrosion behavior of Alloy 182 in simulated primary water. Corrosion Science, 2015, 97, 115-125.	6.6	44
4	Acoustic emission during the electrochemical corrosion of 304 stainless steel in H ₂ SO ₄ solutions. Corrosion Science, 2011, 53, 448-457.	6.6	30
5	The corrosion behavior of Alloy 52 weld metal in cyclic hydrogenated and oxygenated water chemistry in high temperature aqueous environment. Journal of Nuclear Materials, 2015, 461, 10-21.	2.7	28
6	The corrosion behavior of Alloy 182 in a cyclic hydrogenated and oxygenated water chemistry in high temperature aqueous environment. Corrosion Science, 2016, 104, 248-259.	6.6	24
7	Microstructure and pitting behavior of the dissimilar metal weld of 309L cladding and low alloy steel A533B. Journal of Nuclear Materials, 2018, 508, 1-11.	2.7	24
8	Effects of hydrogen on corrosion of pure Ni in high temperature water. Corrosion Science, 2017, 122, 123-129.	6.6	14
9	An electrochemical method for detection and quantification of Laves phase in 12Cr martensitic stainless steel. Corrosion Science, 2018, 135, 215-221.	6.6	13
10	DFT studies on the interaction of Fe ²⁺ /Fe ₃ O ₄ (1 1 1) and OH ⁻ /Fe ₃ O ₄ (1 1 1) during the adsorption process in the steam generators of nuclear power plants. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 617, 126393.	4.7	11
11	The oxidation behavior of 316L in simulated pressurized water reactor environments with cyclically changing concentrations of dissolved oxygen and hydrogen. Journal of Nuclear Materials, 2018, 511, 417-427.	2.7	9
12	Fouling on the secondary side of nuclear steam generator tube: Experimental and simulated study. Applied Surface Science, 2022, 590, 153143.	6.1	7
13	Computational study of Fe ₃ O ₄ adsorption behaviour on the secondary side of the heat exchange tube in the steam generator. Computational Materials Science, 2021, 195, 110471.	3.0	6
14	Acoustic emission behaviour during the evolution of a single pit on stainless steels. Corrosion Science, 2021, 183, 109308.	6.6	5
15	Correlation between the fouling of different crystal calcium carbonate and Fe ₂ O ₃ corrosion on heat exchanger surface. Molecular Simulation, 2021, 47, 748-761.	2.0	4
16	Mechanistic Understanding of the Dissolution Behavior of the Precipitates in 12Cr Martensitic Steel during Potentiodynamic Polarization in Strong Alkaline Solutions. Journal of the Electrochemical Society, 2020, 167, 141501.	2.9	4
17	Study on the relationship between Fe ₃ O ₄ fouling and NiFe ₂ O ₄ oxide layer in the secondary circuit of nuclear steam generator. Surface Science, 2022, 717, 122001.	1.9	4
18	Effects of alternating dissolved oxygen and dissolved hydrogen on the corrosion behavior of alloy 52 in high temperature high pressure water. Journal of Nuclear Materials, 2020, 540, 152396.	2.7	3

#	ARTICLE	IF	CITATIONS
19	Dissolution Behaviour of Laves Phase in P92 High Alloy Steel in Alkaline Solutions. Journal of the Electrochemical Society, 2021, 168, 031505.	2.9	3
20	The SCC initiation behavior of Alloy 600 during the transition of hydrogenated/oxygenated water condition at evaluated temperature. Materials Letters, 2019, 241, 235-238.	2.6	2
21	Microstructural Characterization of the Corrosion Product Deposit in the Flow-Accelerated Region in High-Temperature Water. Crystals, 2022, 12, 749.	2.2	2
22	The Effects of Chloride Ion Concentration on the Pitting Behavior of 309L Cladding by Using Micro-Electrochemical Measurement and In Situ Optical Observation. Journal of Materials Engineering and Performance, 0, , 1.	2.5	0