

# Jian Xu

## List of Publications by Year in descending order

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22  
papers

334  
citations

1040056

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839539

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22  
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22  
docs citations

22  
times ranked

185  
citing authors

#	ARTICLE	IF	CITATIONS
1	Study on the relationship between Fe <sub>3</sub> O <sub>4</sub> fouling and NiFe <sub>2</sub> O <sub>4</sub> oxide layer in the secondary circuit of nuclear steam generator. <i>Surface Science</i> , 2022, 717, 122001.	1.9	4
2	Fouling on the secondary side of nuclear steam generator tube: Experimental and simulated study. <i>Applied Surface Science</i> , 2022, 590, 153143.	6.1	7
3	Microstructural Characterization of the Corrosion Product Deposit in the Flow-Accelerated Region in High-Temperature Water. <i>Crystals</i> , 2022, 12, 749.	2.2	2
4	Dissolution Behaviour of Laves Phase in P92 High Alloy Steel in Alkaline Solutions. <i>Journal of the Electrochemical Society</i> , 2021, 168, 031505.	2.9	3
5	Acoustic emission behaviour during the evolution of a single pit on stainless steels. <i>Corrosion Science</i> , 2021, 183, 109308.	6.6	5
6	DFT studies on the interaction of Fe <sup>2+</sup> /Fe <sub>3</sub> O <sub>4</sub> (1 1 1) and OH <sup>-</sup> /Fe <sub>3</sub> O <sub>4</sub> (1 1 1) during the adsorption process in the steam generators of nuclear power plants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 617, 126393.	4.7	11
7	Correlation between the fouling of different crystal calcium carbonate and Fe <sub>2</sub> O <sub>3</sub> corrosion on heat exchanger surface. <i>Molecular Simulation</i> , 2021, 47, 748-761.	2.0	4
8	Computational study of Fe <sub>3</sub> O <sub>4</sub> adsorption behaviour on the secondary side of the heat exchange tube in the steam generator. <i>Computational Materials Science</i> , 2021, 195, 110471.	3.0	6
9	Effects of alternating dissolved oxygen and dissolved hydrogen on the corrosion behavior of alloy 52 in high temperature high pressure water. <i>Journal of Nuclear Materials</i> , 2020, 540, 152396.	2.7	3
10	Mechanistic Understanding of the Dissolution Behavior of the Precipitates in 12Cr Martensitic Steel during Potentiodynamic Polarization in Strong Alkaline Solutions. <i>Journal of the Electrochemical Society</i> , 2020, 167, 141501.	2.9	4
11	The SCC initiation behavior of Alloy 600 during the transition of hydrogenated/oxygenated water condition at evaluated temperature. <i>Materials Letters</i> , 2019, 241, 235-238.	2.6	2
12	An electrochemical method for detection and quantification of Laves phase in 12Cr martensitic stainless steel. <i>Corrosion Science</i> , 2018, 135, 215-221.	6.6	13
13	The oxidation behavior of 316L in simulated pressurized water reactor environments with cyclically changing concentrations of dissolved oxygen and hydrogen. <i>Journal of Nuclear Materials</i> , 2018, 511, 417-427.	2.7	9
14	Microstructure and pitting behavior of the dissimilar metal weld of 309L cladding and low alloy steel A533B. <i>Journal of Nuclear Materials</i> , 2018, 508, 1-11.	2.7	24
15	Effects of hydrogen on corrosion of pure Ni in high temperature water. <i>Corrosion Science</i> , 2017, 122, 123-129.	6.6	14
16	The corrosion behavior of Alloy 182 in a cyclic hydrogenated and oxygenated water chemistry in high temperature aqueous environment. <i>Corrosion Science</i> , 2016, 104, 248-259.	6.6	24
17	The corrosion behavior of Alloy 52 weld metal in cyclic hydrogenated and oxygenated water chemistry in high temperature aqueous environment. <i>Journal of Nuclear Materials</i> , 2015, 461, 10-21.	2.7	28
18	The effects of dissolved hydrogen on the corrosion behavior of Alloy 182 in simulated primary water. <i>Corrosion Science</i> , 2015, 97, 115-125.	6.6	44

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19	Acoustic emission response of sensitized 304 stainless steel during intergranular corrosion and stress corrosion cracking. Corrosion Science, 2013, 73, 262-273.	6.6	48
20	Acoustic emission during the electrochemical corrosion of 304 stainless steel in H2SO4 solutions. Corrosion Science, 2011, 53, 448-457.	6.6	30
21	Acoustic emission during pitting corrosion of 304 stainless steel. Corrosion Science, 2011, 53, 1537-1546.	6.6	49
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