

Yiming Jiang

List of Publications by Year in descending order

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57
papers

2,351
citations

279798

23
h-index

214800

47
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57
all docs

57
docs citations

57
times ranked

1327
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of annealing temperature on the pitting corrosion resistance of super duplex stainless steel UNS S32750. <i>Materials Characterization</i> , 2009, 60, 1049-1054.	4.4	219
2	Recent advances and challenges in divalent and multivalent metal electrodes for metal-air batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18183-18208.	10.3	139
3	Effect of post-weld heat treatment on microstructure evolution and pitting corrosion behavior of UNS S31803 duplex stainless steel welds. <i>Corrosion Science</i> , 2012, 62, 42-50.	6.6	136
4	Critical pitting and repassivation temperatures for duplex stainless steel in chloride solutions. <i>Electrochimica Acta</i> , 2008, 53, 5220-5225.	5.2	130
5	Influence of annealing treatment on the corrosion resistance of lean duplex stainless steel 2101. <i>Electrochimica Acta</i> , 2009, 54, 5387-5392.	5.2	124
6	Effect of thermal cycles on the corrosion and mechanical properties of UNS S31803 duplex stainless steel. <i>Corrosion Science</i> , 2009, 51, 2969-2975.	6.6	119
7	Evaluation of localized corrosion in duplex stainless steel aged at 850°C with critical pitting temperature measurement. <i>Electrochimica Acta</i> , 2009, 54, 2790-2794.	5.2	105
8	Influence of cooling rate on microstructure evolution and pitting corrosion resistance in the simulated heat-affected zone of 2304 duplex stainless steels. <i>Corrosion Science</i> , 2012, 58, 168-174.	6.6	100
9	Effect of aging on the corrosion resistance of 2101 lean duplex stainless steel. <i>Materials Characterization</i> , 2009, 60, 1522-1528.	4.4	97
10	Application of the modified electrochemical potentiodynamic reactivation method to detect susceptibility to intergranular corrosion of a newly developed lean duplex stainless steel LDX2101. <i>Corrosion Science</i> , 2010, 52, 969-977.	6.6	88
11	Effect of a brief post-weld heat treatment on the microstructure evolution and pitting corrosion of laser beam welded UNS S31803 duplex stainless steel. <i>Corrosion Science</i> , 2012, 65, 472-480.	6.6	85
12	Influence of welding thermal cycles on microstructure and pitting corrosion resistance of 2304 duplex stainless steels. <i>Corrosion Science</i> , 2012, 55, 368-377.	6.6	84
13	Evaluation of aged duplex stainless steel UNS S32750 susceptibility to intergranular corrosion by optimized double loop electrochemical potentiokinetic reactivation method. <i>Corrosion Science</i> , 2013, 68, 249-255.	6.6	84
14	Annealing temperature effect on the pitting corrosion resistance of plasma arc welded joints of duplex stainless steel UNS S32304 in 1.0 M NaCl. <i>Corrosion Science</i> , 2011, 53, 2191-2200.	6.6	76
15	Influence of Creq/Nieq on pitting corrosion resistance and mechanical properties of UNS S32304 duplex stainless steel welded joints. <i>Corrosion Science</i> , 2013, 70, 252-259.	6.6	74
16	Dependence of critical pitting temperature on the concentration of sulphate ion in chloride-containing solutions. <i>Applied Surface Science</i> , 2007, 253, 7369-7375.	6.1	69
17	Investigation of selective corrosion resistance of aged lean duplex stainless steel 2101 by non-destructive electrochemical techniques. <i>Electrochimica Acta</i> , 2009, 54, 5830-5835.	5.2	69
18	Microstructure evolution and pitting corrosion resistance of the Gleeble-simulated heat-affected zone of a newly developed lean duplex stainless steel 2002. <i>Journal of Alloys and Compounds</i> , 2016, 658, 1031-1040.	5.5	61

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19	Determination of pitting initiation of duplex stainless steel using potentiostatic pulse technique. <i>Electrochimica Acta</i> , 2010, 55, 4837-4844.	5.2	44
20	Microstructural evolution and pitting resistance of annealed lean duplex stainless steel UNS S32304. <i>Nuclear Engineering and Design</i> , 2012, 243, 56-62.	1.7	29
21	Electrochemical impedance spectroscopy investigation on indium tin oxide films under cathodic polarization in NaOH solution. <i>Thin Solid Films</i> , 2012, 520, 6916-6921.	1.8	27
22	Effect of Surface Roughness on Pitting Corrosion of 2205 Duplex Stainless Steel Investigated by Electrochemical Noise Measurements. <i>Materials</i> , 2019, 12, 738.	2.9	27
23	Pitting corrosion behavior of stainless steel in ultrasonic cell. <i>Electrochimica Acta</i> , 2009, 54, 1558-1563.	5.2	24
24	Evaluation of Pitting Behavior on Solution Treated Duplex Stainless Steel UNS S31803. <i>Journal of Materials Science and Technology</i> , 2014, 30, 179-183.	10.7	24
25	Investigation on static and dynamic corrosion behaviors of thermal energy transfer and storage system materials by molten salts in concentrating solar power plants. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 102-109.	1.5	22
26	Synergistic effect of cold work and hydrogen charging on the pitting susceptibility of 2205 duplex stainless steel. <i>Electrochimica Acta</i> , 2019, 328, 135081.	5.2	22
27	A comparative study on the critical pitting criteria of a super ferritic stainless steel at different temperatures in chloride or bromide solution. <i>Corrosion Science</i> , 2021, 183, 109311.	6.6	20
28	Studies on the degree of sensitization of hyper-duplex stainless steel 2707 at 900°C using a modified DL-EPR test. <i>Corrosion Science</i> , 2021, 185, 109432.	6.6	18
29	Intergranular corrosion behavior and mechanism of the stabilized ultra-pure 430LX ferritic stainless steel. <i>Journal of Materials Science and Technology</i> , 2019, 35, 1787-1796.	10.7	17
30	Investigation on galvanic corrosion behaviors of CFRPs and aluminum alloys systems for automotive applications. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 1036-1043.	1.5	16
31	Pitting and etching behaviors occurring in duplex stainless steel 2205 in the presence of alternating voltage interference. <i>Construction and Building Materials</i> , 2019, 202, 877-890.	7.2	15
32	Lower temperature aluminizing and its effect on improving corrosion resistance of iron treated by surface mechanical attrition treatment. <i>Journal of Coatings Technology Research</i> , 2011, 8, 107-116.	2.5	14
33	Effect of Hydrogen Charging Conditions on Hydrogen Blisters and Pitting Susceptibility of 4451M Ferritic Stainless Steel. <i>Journal of the Electrochemical Society</i> , 2018, 165, C1007-C1016.	2.9	14
34	Use of the Potentiostatic Pulse Technique to Study and Influence Pitting Behavior of 317L Stainless Steel. <i>Journal of the Electrochemical Society</i> , 2020, 167, 041509.	2.9	14
35	A discussion on evaluation criteria for crevice corrosion of various stainless steels. <i>Journal of Materials Science and Technology</i> , 2021, 64, 29-37.	10.7	14
36	Investigation on ultra-pure ferritic stainless steel 436L susceptibility to intergranular corrosion using optimised double loop electrochemical potentiokinetic reactivation method. <i>Corrosion Engineering Science and Technology</i> , 2018, 53, 574-581.	1.4	13

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37	Application of potentiostatic pulse technique and statistical analysis in evaluating pitting resistance of aged 317L stainless steel. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2020, 71, 900-908.	1.5	12
38	Evaluation of aged Incoloy 800 alloy sensitization to intergranular corrosion by means of double loop electrochemical methods and image analysis. <i>Nuclear Engineering and Design</i> , 2011, 241, 1421-1429.	1.7	11
39	Effect of annealing temperature on pitting behavior and microstructure evolution of hyperduplex stainless steel 2707. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 1682-1692.	1.5	11
40	The Critical Pitting Chloride Concentration of Various Stainless Steels Measured by an Electrochemical Method. <i>Journal of the Electrochemical Society</i> , 2018, 165, C939-C949.	2.9	10
41	Alternating voltage induced oscillation on electrochemical behavior and pitting corrosion in duplex stainless steel 2205. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 419-433.	1.5	10
42	The Intergranular Corrosion Susceptibility of Metastable Austenitic Cr-Mn-Ni-Cu High-Strength Stainless Steel under Various Heat Treatments. <i>Materials</i> , 2019, 12, 1385.	2.9	9
43	The temperature-dependent pitting and repassivation behaviors of UNS S31803 duplex stainless steel in chloride solutions. <i>Corrosion Science</i> , 2019, 149, 29-36.	6.6	9
44	Influence of Ethanol on Pitting Corrosion Behavior of Stainless Steel for Bioethanol Fermentation Tanks. <i>Frontiers in Chemistry</i> , 2020, 8, 529.	3.6	8
45	Microstructure Evolution in Aged UNS S82441 Duplex Stainless Steel. <i>Steel Research International</i> , 2014, 85, 640-644.	1.8	5
46	The Microstructure and Pitting Resistance of 2002 Lean Duplex Stainless Steel after the Simulated Welding Thermal Cycle Process. <i>Materials</i> , 2019, 12, 70.	2.9	5
47	A new polymer thin film with electrical bistable states. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2005, 202, 1804-1807.	1.8	4
48	The Acceleration of Pitting Corrosion of AISI 304 Stainless Steel by Ultraviolet Light Illumination in Acidic Chloride Solution. <i>Journal of the Electrochemical Society</i> , 2020, 167, 021506.	2.9	4
49	Investigation on pitting resistance of Sn-containing ferritic stainless steel with solution simulation method. <i>Materials Research Express</i> , 2021, 8, 066524.	1.6	4
50	Enhancement in intergranular corrosion resistance of the stabilised ultra-pure 430LX ferritic stainless steel by tin addition. <i>Corrosion Engineering Science and Technology</i> , 2020, 55, 232-240.	1.4	4
51	In Situ Observation of Surface Electrochemical Activities of Lean Duplex Stainless Steel LDX 2101. <i>Steel Research International</i> , 2013, 84, 155-162.	1.8	3
52	High-temperature corrosion behaviors of typical nickel alloy coatings in a simulated boiler coal ash/gas environment in the Zhundong region. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2020, 71, 1102-1112.	1.5	3
53	Studies on pitting corrosion in austenitic stainless steel interfered by square-wave alternating voltage with different parameters using multi-potential steps method. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2018, 69, 1741-1757.	1.5	2
54	Distinction in Corrosion Behaviors of Duplex Stainless Steel 2205 Induced by Different Waveform Alternating Voltages Interference. <i>Journal of the Electrochemical Society</i> , 2019, 166, C454-C467.	2.9	2

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55	Inhibition effect and mechanism of tin on the active dissolution of tin-containing 430LX ferritic stainless steel. <i>Corrosion Science</i> , 2021, 192, 109818.	6.6	2
56	Energy effect in switching of PAR thin film as an electrical bistable material. <i>Physica Status Solidi A</i> , 2004, 201, 111-114.	1.7	0
57	Pitting inhibition of newly developed lean duplex stainless steel 2002 in NaCl solution by a green inhibitor. <i>Materials Research Express</i> , 2019, 6, 076569.	1.6	0