

Yanfei Wang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Effect of hydrogen charging time on hydrogen embrittlement of CoCrFeMnNi high-entropy alloy. <i>Corrosion Science</i> , 2022, 198, 110073.	6.6	17
2	Hydrogen embrittlement and failure mechanisms of multi-principal element alloys: A review. <i>Journal of Materials Science and Technology</i> , 2022, 122, 20-32.	10.7	48
3	Effect of hydrogen trapping on hydrogen permeation in a 2205 duplex stainless steel: Role of austenite-ferrite interface. <i>Corrosion Science</i> , 2022, 202, 110332.	6.6	25
4	Effect of ultrasonic surface rolling process on hydrogen embrittlement behavior of TC4 laser welded joints. <i>Journal of Materials Science</i> , 2022, 57, 11997-12011.	3.7	1
5	Modeling of hydrogen diffusion in duplex stainless steel based on microstructure using finite element method. <i>International Journal of Pressure Vessels and Piping</i> , 2020, 180, 104031.	2.6	18
6	Analysis of enhanced hydrogen embrittlement fracture for pre-strain hardening 2205 duplex stainless steel. <i>Results in Physics</i> , 2020, 16, 102820.	4.1	11
7	Surface Grain Refinement of 304L Stainless Steel by Combined Severe Shot Peening and Reversion Annealing Treatment. <i>Coatings</i> , 2020, 10, 470.	2.6	6
8	Review of Hydrogen Embrittlement in Metals: Hydrogen Diffusion, Hydrogen Characterization, Hydrogen Embrittlement Mechanism and Prevention. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 759-773.	2.9	142
9	Effect of shot peening coverage on hydrogen embrittlement of a ferrite-pearlite steel. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 7169-7184.	7.1	25
10	Suppression of hydrogen absorption into 304L austenitic stainless steel by surface low temperature gas carburizing treatment. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 24054-24064.	7.1	9
11	Combined effects of prior plastic deformation and sensitization on hydrogen embrittlement of 304 austenitic stainless steel. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 7014-7031.	7.1	28
12	Tensile mechanical properties and fracture behaviors of nickel-based superalloy 718 in the presence of hydrogen. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 20118-20132.	7.1	42
13	Effect of $\pm 2\%$ Martensite Content Induced by Tensile Plastic Prestrain on Hydrogen Transport and Hydrogen Embrittlement of 304L Austenitic Stainless Steel. <i>Metals</i> , 2018, 8, 660.	2.3	11
14	Cohesive zone modeling of hydrogen-induced delayed intergranular fracture in high strength steels. <i>Results in Physics</i> , 2018, 11, 591-598.	4.1	21
15	Microstructural and crystallographic study of hydrogen-assisted cracking in high strength PSB1080 steel. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 17898-17911.	7.1	38
16	Numerical analysis of hydrogen transport into a steel after shot peening. <i>Results in Physics</i> , 2018, 11, 5-16.	4.1	22
17	Effect of heat treatment on hydrogen-assisted fracture behavior of PH13-8Mo steel. <i>Corrosion Science</i> , 2017, 128, 198-212.	6.6	30
18	Effect of tempering temperature and inclusions on hydrogen-assisted fracture behaviors of a low alloy steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 682, 359-369.	5.6	49

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19	Warm Pre-Strain: Strengthening the Metastable 304L Austenitic Stainless Steel without Compromising Its Hydrogen Embrittlement Resistance. <i>Materials</i> , 2017, 10, 1331.	2.9	5
20	Numerical Simulation of Damage Evolution and Life Prediction for Two Commercial Fe-Cr-Ni Alloys Subjected to Mechanical and Environmental Factors. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2016, 138, .	0.6	3
21	The dual role of shot peening in hydrogen-assisted cracking of PSB1080 high strength steel. <i>Materials and Design</i> , 2016, 110, 602-615.	7.0	38
22	Effect of hydrogen on tensile properties and fracture behavior of PH 13-8 Mo steel. <i>Materials and Design</i> , 2016, 108, 608-617.	7.0	31
23	Numerical Simulation to Study the Effect of Arc Travelling Speed and Welding Sequences on Residual Stresses in Welded Sections of New Ferritic P92 Pipes. <i>High Temperature Materials and Processes</i> , 2016, 35, 121-128.	1.4	5
24	FE analysis of hydrogen diffusion around a crack tip in an austenitic stainless steel. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 6053-6063.	7.1	35
25	Characterization of Low Cycle Fatigue Performance of New Ferritic P92 Steel at High Temperature: Effect of Strain Amplitude. <i>Steel Research International</i> , 2015, 86, 1046-1055.	1.8	35
26	Effect of cathodic hydrogen-charging current density on mechanical properties of prestrained high strength steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 641, 45-53.	5.6	39
27	Prediction of Residual Stress Distributions in Welded Sections of P92 Pipes with Small Diameter and Thick Wall based on 3D Finite Element Simulation. <i>High Temperature Materials and Processes</i> , 2015, 34, .	1.4	4
28	Effect of start/stop position distribution on residual stresses in the multi-pass welded 12Cr1MoV/P91 dissimilar pipe. <i>International Journal of Steel Structures</i> , 2014, 14, 539-546.	1.3	4
29	Effect of pre-strain on hydrogen embrittlement of high strength steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 616, 116-122.	5.6	84
30	Hydrogen embrittlement of cathodically hydrogen-precharged 304L austenitic stainless steel: Effect of plastic pre-strain. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 13909-13918.	7.1	79
31	Prediction on Initiation of Hydrogen-Induced Delayed Cracking in High-Strength Steel Based on Cohesive Zone Modeling. , 2014, , .		1
32	Ductility loss of hydrogen-charged and releasing 304L steel. <i>Frontiers of Mechanical Engineering</i> , 2013, 8, 298-304.	4.3	4
33	A quantitative description on fracture toughness of steels in hydrogen gas. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 12503-12508.	7.1	50