

# Yanfei Wang

## List of Publications by Year in descending order

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33  
papers

960  
citations

394421

19  
h-index

434195

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g-index

34  
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34  
docs citations

34  
times ranked

532  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Effect of pre-strain on hydrogen embrittlement of high strength steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 616, 116-122.	5.6	84
3	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
4	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
5	Effect of tempering temperature and inclusions on hydrogen-assisted fracture behaviors of a low alloy steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 682, 359-369.	5.6	49
6	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
7	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
8	Effect of cathodic hydrogen-charging current density on mechanical properties of prestrained high strength steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 641, 45-53.	5.6	39
9	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
10	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
11	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
12	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
13	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
14	Effect of heat treatment on hydrogen-assisted fracture behavior of PH13-8Mo steel. <i>Corrosion Science</i> , 2017, 128, 198-212.	6.6	30
15	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
16	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
17	Effect of hydrogen trapping on hydrogen permeation in a 2205 duplex stainless steel: Role of austenite-ferrous interface. <i>Corrosion Science</i> , 2022, 202, 110332.	6.6	25
18	Numerical analysis of hydrogen transport into a steel after shot peening. <i>Results in Physics</i> , 2018, 11, 5-16.	4.1	22

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19	Cohesive zone modeling of hydrogen-induced delayed intergranular fracture in high strength steels. Results in Physics, 2018, 11, 591-598.	4.1	21
20	Modeling of hydrogen diffusion in duplex stainless steel based on microstructure using finite element method. International Journal of Pressure Vessels and Piping, 2020, 180, 104031.	2.6	18
21	Effect of hydrogen charging time on hydrogen embrittlement of CoCrFeMnNi high-entropy alloy. Corrosion Science, 2022, 198, 110073.	6.6	17
22	Effect of $\hat{\epsilon}$ Martensite Content Induced by Tensile Plastic Prestrain on Hydrogen Transport and Hydrogen Embrittlement of 304L Austenitic Stainless Steel. Metals, 2018, 8, 660.	2.3	11
23	Analysis of enhanced hydrogen embrittlement fracture for pre-strain hardening 2205 duplex stainless steel. Results in Physics, 2020, 16, 102820.	4.1	11
24	Suppression of hydrogen absorption into 304L austenitic stainless steel by surface low temperature gas carburizing treatment. International Journal of Hydrogen Energy, 2019, 44, 24054-24064.	7.1	9
25	Surface Grain Refinement of 304L Stainless Steel by Combined Severe Shot Peening and Reversion Annealing Treatment. Coatings, 2020, 10, 470.	2.6	6
26	Numerical Simulation to Study the Effect of Arc Travelling Speed and Welding Sequences on Residual Stresses in Welded Sections of New Ferritic P92 Pipes. High Temperature Materials and Processes, 2016, 35, 121-128.	1.4	5
27	Warm Pre-Strain: Strengthening the Metastable 304L Austenitic Stainless Steel without Compromising Its Hydrogen Embrittlement Resistance. Materials, 2017, 10, 1331.	2.9	5
28	Ductility loss of hydrogen-charged and releasing 304L steel. Frontiers of Mechanical Engineering, 2013, 8, 298-304.	4.3	4
29	Effect of start/stop position distribution on residual stresses in the multi-pass welded 12Cr1MoV/P91 dissimilar pipe. International Journal of Steel Structures, 2014, 14, 539-546.	1.3	4
30	Prediction of Residual Stress Distributions in Welded Sections of P92 Pipes with Small Diameter and Thick Wall based on 3D Finite Element Simulation. High Temperature Materials and Processes, 2015, 34, .	1.4	4
31	Numerical Simulation of Damage Evolution and Life Prediction for Two Commercial Fe-Cr-Ni Alloys Subjected to Mechanical and Environmental Factors. Journal of Pressure Vessel Technology, Transactions of the ASME, 2016, 138, .	0.6	3
32	Prediction on Initiation of Hydrogen-Induced Delayed Cracking in High-Strength Steel Based on Cohesive Zone Modeling. , 2014, , .		1
33	Effect of ultrasonic surface rolling process on hydrogen embrittlement behavior of TC4 laser welded joints. Journal of Materials Science, 2022, 57, 11997-12011.	3.7	1