

Yuanyuan Zheng

List of Publications by Year in descending order

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41
papers

1,292
citations

394421

19
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345221

36
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41
docs citations

41
times ranked

977
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of nickel equivalent on hydrogen gas embrittlement of austenitic stainless steels based on type 316 at low temperatures. <i>Acta Materialia</i> , 2008, 56, 3414-3421.	7.9	195
2	Effect of strain-induced martensite on hydrogen embrittlement of austenitic stainless steels investigated by combined tension and hydrogen release methods. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 8208-8214.	7.1	111
3	Fabrication of novel slurry containing graphene oxide-modified microencapsulated phase change material for direct absorption solar collector. <i>Solar Energy Materials and Solar Cells</i> , 2018, 188, 73-80.	6.2	108
4	The effect of the partial pressure of H ₂ S on the permeation of hydrogen in low carbon pipeline steel. <i>Corrosion Science</i> , 2013, 67, 184-192.	6.6	106
5	Formation of strain-induced martensite in selective laser melting austenitic stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 740-741, 420-426.	5.6	83
6	Improvement of corrosion resistance of SS316L manufactured by selective laser melting through subcritical annealing. <i>Corrosion Science</i> , 2020, 164, 108353.	6.6	69
7	Effects of internal hydrogen and surface-absorbed hydrogen on the hydrogen embrittlement of X80 pipeline steel. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 22547-22558.	7.1	66
8	Influence of low temperature prestrain on hydrogen gas embrittlement of metastable austenitic stainless steels. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 11181-11187.	7.1	47
9	Influence of hydrogen pressure on fatigue properties of X80 pipeline steel. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 15669-15678.	7.1	44
10	Effect of pre-strain on hydrogen embrittlement of metastable austenitic stainless steel under different hydrogen conditions. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 26036-26048.	7.1	44
11	Improved resistance to hydrogen environment embrittlement of warm-deformed 304 austenitic stainless steel in high-pressure hydrogen atmosphere. <i>Corrosion Science</i> , 2019, 148, 159-170.	6.6	43
12	Internal Reversible Hydrogen Embrittlement of Austenitic Stainless Steels Based on Type 316 at Low Temperatures. <i>ISIJ International</i> , 2012, 52, 240-246.	1.4	36
13	Sulphide stress cracking behaviour of the dissimilar metal welded joint of X60 pipeline steel and Inconel 625 alloy. <i>Corrosion Science</i> , 2016, 110, 242-252.	6.6	35
14	Effects of ϵ martensite and deformation twin on hydrogen-assisted fatigue crack growth in cold/warm-rolled type 304 stainless steel. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 3342-3352.	7.1	34
15	Investigating the influence mechanism of hydrogen partial pressure on fracture toughness and fatigue life by in-situ hydrogen permeation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 20621-20629.	7.1	34
16	The influence of copper on the stress corrosion cracking of 304 stainless steel. <i>Applied Surface Science</i> , 2019, 478, 492-498.	6.1	26
17	Hydrogen effect on the deformation evolution process in situ detected by nanoindentation continuous stiffness measurement. <i>Materials Characterization</i> , 2017, 127, 35-40.	4.4	23
18	Hydrogen Effects on Localized Plasticity in SUS310S Stainless Steel Investigated by Nanoindentation and Atomic Force Microscopy. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 08JB08.	1.5	21

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19	The dependence of hydrogen embrittlement on hydrogen transport in selective laser melted 304L stainless steel. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 16153-16163.	7.1	21
20	Effect of hydrogen and strain rate on nanoindentation creep of austenitic stainless steel. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 1253-1262.	7.1	18
21	Synthesis of novel microencapsulated phase change material with SnO ₂ /CNTs shell for solar energy storage and photo-thermal conversion. <i>Materials Research Express</i> , 2020, 7, 015513.	1.6	17
22	Microstructure Evolution and Corrosion Behavior of Deformed Austenitic Stainless Steel Manufactured by Selective Laser Melting. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 1652-1664.	2.5	12
23	Dependence of strain rate on hydrogen-induced hardening of austenitic stainless steel investigated by nanoindentation. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 14055-14063.	7.1	11
24	Effects of hydrogen on the mechanical response of X80 pipeline steel subject to high strain rate tensile tests. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 684-697.	3.4	11
25	Effect of interaction between corrosion film and H ₂ /S/CO ₂ partial pressure ratio on the hydrogen permeation in X80 pipeline steel. <i>Corrosion Engineering Science and Technology</i> , 2020, 55, 392-399.	1.4	11
26	Hydrogen embrittlement resistance of TWIP (twinning-induced plasticity) steel in high pressure hydrogen environment. <i>International Journal of Fatigue</i> , 2021, 151, 106362.	5.7	11
27	Surface treatment and corrosion behavior of 316L stainless steel fabricated by selective laser melting. <i>Materials Research Express</i> , 2019, 6, 106518.	1.6	7
28	Deformation-induced hydrogen desorption from the surface oxide layer of 6061 aluminum alloy. <i>Journal of Alloys and Compounds</i> , 2014, 617, 792-796.	5.5	6
29	Hydrogen effect on nanoindentation creep of austenitic stainless steel: A comparative study between primary creep stage and steady-state creep stage. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 22576-22583.	7.1	6
30	The dependence of fatigue crack growth on hydrogen in warm-rolled 316 austenitic stainless steel. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 12348-12360.	7.1	6
31	Density power law and structures of metallic glasses. <i>Acta Materialia</i> , 2017, 141, 75-82.	7.9	5
32	Coupling effect of grain boundary and hydrogen segregation on dislocation nucleation in bi-crystal nickel. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 20021-20031.	7.1	5
33	The Room Temperature Creep of Selective Laser Melted 316L Stainless Steel Investigated by Nanoindentation. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 6502-6510.	2.5	4
34	Effects of External Hydrogen on Hydrogen Transportation and Distribution Around the Fatigue Crack Tip in Type 304 Stainless Steel. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 4990-4996.	2.5	3
35	Hydrogen Effect on the Fatigue Crack Growth in Austenitic Stainless Steel Investigated by a New Method Based on Nanohardness Distribution. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 6485-6492.	2.5	3
36	Effect of nitrogen on nanomechanical behavior of austenitic stainless steel investigated by nanoindentation. <i>Materials Research Express</i> , 2018, 5, 096515.	1.6	3

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37	The evolution of oxygen-rich nanoparticle and its effect on the mechanical property in selective laser melted 304L stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 827, 142009.	5.6	3
38	Influence of Warm Predeformation Temperature on the Corrosion Property of Type 304 Austenitic Stainless Steel. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 4515-4528.	2.5	2
39	An apparatus for detecting hydrogen desorption from metals during deformation. <i>Vacuum</i> , 2016, 128, 128-132.	3.5	1
40	Evolution behavior of nano-hardness after thermal-aging and hydrogen-charging on austenite and strain-induced martensite in pre-strained austenitic stainless steel. <i>Materials Research Express</i> , 2018, 5, 056524.	1.6	1
41	Abnormal Evolution of Pitting Behavior of Warmly Pre-Strained Austenitic Stainless Steels. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 8165-8182.	2.5	0