

Roy Johnsen

List of Publications by Year in descending order

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papers

641
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687363

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Reveal Hydrogen Behavior at Grain Boundaries in Fe-22Mn-0.6C TWIP Steel via In Situ Micropillar Compression Test. <i>Acta Metallurgica Sinica (English Letters)</i> , 2023, 36, 1095-1104.	2.9	2
2	Hydrogen uptake during active CO ₂ -H ₂ S corrosion of carbon steel wires in simulated annulus fluid. <i>Corrosion Science</i> , 2022, 199, 110172.	6.6	9
3	Corrosion and Microstructural Investigation on Additively Manufactured 316L Stainless Steel: Experimental and Statistical Approach. <i>Materials</i> , 2022, 15, 1605.	2.9	3
4	Evaluation of the cementite morphology influence on the hydrogen induced crack nucleation and propagation path in carbon steels. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 14121-14129.	7.1	6
5	Hydrogen assisted intergranular cracking of alloy 725: The effect of boron and copper alloying. <i>Corrosion Science</i> , 2022, 203, 110331.	6.6	8
6	Hydrogen diffusion and trapping in nickel-based alloy 625: An electrochemical permeation study. <i>Electrochimica Acta</i> , 2022, 421, 140477.	5.2	11
7	Crevice corrosion of solution annealed 25Cr duplex stainless steels: Effect of W on critical temperatures. <i>Corrosion Science</i> , 2021, 178, 109053.	6.6	23
8	Effect of hydrogen on the embrittlement susceptibility of Fe-22Mn-0.6C TWIP steel revealed by in-situ tensile tests. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 802, 140638.	5.6	22
9	Probing hydrogen effect on nanomechanical properties of X65 pipeline steel using in-situ electrochemical nanoindentation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 824, 141819.	5.6	11
10	Stress Corrosion Cracking in an Extruded Cu-Free Al-Zn-Mg Alloy. <i>Metals</i> , 2020, 10, 1194.	2.3	3
11	Use of the Critical Acidification Model to Estimate the Influence of W in the Localized Corrosion Resistance of 25Cr Super Duplex Stainless Steels. <i>Metals</i> , 2020, 10, 1364.	2.3	4
12	The Effect of Hydrogen on the Nanoindentation Behavior of Heat Treated 718 Alloy. <i>Metals</i> , 2020, 10, 1451.	2.3	2
13	The Role of Tungsten on the Phase Transformation Kinetics and its Correlation with the Localized Corrosion Resistance of 25Cr Super Duplex Stainless Steels. <i>Journal of the Electrochemical Society</i> , 2020, 167, 081510.	2.9	9
14	Properties of TSA in natural seawater at ambient and elevated temperature. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 293-306.	1.5	5
15	Effect of different microstructural features on the hydrogen embrittlement susceptibility of alloy 718. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 6765-6776.	7.1	28
16	Effect of nickel on hydrogen permeation in ferritic/pearlitic low alloy steels. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 3845-3861.	7.1	39
17	Effect of Nickel on the Hydrogen Stress Cracking Resistance of Ferritic/Pearlitic Low Alloy Steels. <i>Corrosion</i> , 2018, 74, 801-818.	1.1	3
18	Environmentally assisted degradation of spinodal copper alloy C72900. <i>Corrosion Science</i> , 2018, 142, 45-55.	6.6	19

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19	Hydrogen stress cracking and crack initiation in precipitation hardened Ni-alloys. <i>Engineering Failure Analysis</i> , 2018, 89, 74-87.	4.0	9
20	In situ small-scale hydrogen embrittlement testing made easy: An electrolyte for preserving surface integrity at nano-scale during hydrogen charging. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 12516-12529.	7.1	18
21	Effect of hydrogen on dislocation nucleation in alloy 718. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 15933-15942.	7.1	36
22	Materials and corrosion trends in offshore and subsea oil and gas production. <i>Npj Materials Degradation</i> , 2017, 1, .	5.8	80
23	Effect of Tungsten on the Pitting and Crevice Corrosion Resistance of Type 25Cr Super Duplex Stainless Steels. <i>Corrosion</i> , 2017, 73, 53-67.	1.1	41
24	Effect of hydrogen on the hardness of different phases in super duplex stainless steel. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 704-712.	7.1	37
25	Nanomechanical characterization of the hydrogen effect on pulsed plasma nitrided super duplex stainless steel. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 15520-15531.	7.1	23
26	Hydrogen Effect on Nanomechanical Properties of the Nitrided Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 766-775.	2.2	13
27	Resolving the hydrogen effect on dislocation nucleation and mobility by electrochemical nanoindentation. <i>Scripta Materialia</i> , 2012, 66, 414-417.	5.2	100
28	Application of hydrogen influenced cohesive laws in the prediction of hydrogen induced stress cracking in 25%Cr duplex stainless steel. <i>Engineering Fracture Mechanics</i> , 2008, 75, 2333-2351.	4.3	75
29	Hydrogen uptake and diffusivity in steel armor wires with different chemical composition, carbide distribution, grain size, and degree of deformation. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 0, , .	1.5	2