

Vigdis Olden

List of Publications by Year in descending order

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27
papers

907
citations

566801

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all docs

27
docs citations

27
times ranked

539
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen diffusion and hydrogen influenced critical stress intensity in an API X70 pipeline steel welded joint – Experiments and FE simulations. International Journal of Hydrogen Energy, 2012, 37, 11474-11486.	3.8	124
2	Hydrogen embrittlement in nickel, visited by first principles modeling, cohesive zone simulation and nanomechanical testing. International Journal of Hydrogen Energy, 2015, 40, 16892-16900.	3.8	93
3	FE simulation of hydrogen diffusion in duplex stainless steel. International Journal of Hydrogen Energy, 2014, 39, 1156-1163.	3.8	82
4	Application of hydrogen influenced cohesive laws in the prediction of hydrogen induced stress cracking in 25%Cr duplex stainless steel. Engineering Fracture Mechanics, 2008, 75, 2333-2351.	2.0	75
5	Influence of hydrogen from cathodic protection on the fracture susceptibility of 25%Cr duplex stainless steel – Constant load SENT testing and FE-modelling using hydrogen influenced cohesive zone elements. Engineering Fracture Mechanics, 2009, 76, 827-844.	2.0	66
6	3D cohesive modelling of hydrogen embrittlement in the heat affected zone of an X70 pipeline steel – Part II. International Journal of Hydrogen Energy, 2014, 39, 3528-3541.	3.8	57
7	A uniform hydrogen degradation law for high strength steels. Engineering Fracture Mechanics, 2016, 157, 56-71.	2.0	56
8	3D cohesive modelling of hydrogen embrittlement in the heat affected zone of an X70 pipeline steel. International Journal of Hydrogen Energy, 2013, 38, 7539-7549.	3.8	53
9	Cohesive zone modeling of hydrogen-induced stress cracking in 25% Cr duplex stainless steel. Scripta Materialia, 2007, 57, 615-618.	2.6	51
10	Hydrogen embrittlement susceptibility of a weld simulated X70 heat affected zone under H2 pressure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 597, 29-36.	2.6	43
11	Hydrogen enhanced fatigue crack growth rates in a ferritic Fe-3wt%Si alloy and a X70 pipeline steel. Engineering Fracture Mechanics, 2019, 219, 106641.	2.0	33
12	Viscous regularization for cohesive zone modeling under constant displacement: An application to hydrogen embrittlement simulation. Engineering Fracture Mechanics, 2016, 166, 23-42.	2.0	32
13	A review of cohesive zone modelling as an approach for numerically assessing hydrogen embrittlement of steel structures. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160411.	1.6	26
14	A predictive model unifying hydrogen enhanced plasticity and decohesion. Scripta Materialia, 2022, 215, 114707.	2.6	22
15	Cohesive zone simulation of grain size and misorientation effects on hydrogen embrittlement in nickel. Engineering Failure Analysis, 2017, 81, 79-93.	1.8	20
16	Hydrogen-enhanced fatigue crack growth behaviors in a ferritic Fe-3wt%Si steel studied by fractography and dislocation structure analysis. International Journal of Hydrogen Energy, 2019, 44, 5030-5042.	3.8	16
17	Metallurgical Aspects in the Welding of Clad Pipelines – A Global Outlook. Applied Sciences (Switzerland), 2019, 9, 3118.	1.3	15
18	The Effect of PWHT on the Material Properties and Micro Structure in Inconel 625 and Inconel 725 Buttered Joints. , 2003, , 109.		13

#	ARTICLE	IF	CITATIONS
19	Simulation of ductile-to-brittle transition combining complete Gurson model and CZM with application to hydrogen embrittlement. <i>Engineering Fracture Mechanics</i> , 2022, 268, 108511.	2.0	12
20	A microstructure informed and mixed-mode cohesive zone approach to simulating hydrogen embrittlement. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 17479-17493.	3.8	6
21	Water spray cooling of stainless and C-Mn steel. <i>Steel Research = Archiv F¼r Das Eisenh¼ttenwesen</i> , 1998, 69, 240-246.	0.2	4
22	Hydrogen Enhanced Fatigue Crack Growth Rates in a Ferritic Fe-3wt%Si Alloy. <i>Procedia Structural Integrity</i> , 2018, 13, 1514-1520.	0.3	4
23	Prediction of Hydrogen Embrittlement in 25% Cr Duplex Stainless Steel Based on Cohesive Zone Simulation. , 2009, , .		2
24	Hydrogen-assisted fatigue crack growth in ferritic steels – a fractographic study. <i>MATEC Web of Conferences</i> , 2018, 165, 03004.	0.1	2
25	A Cohesive Zone Modeling Approach to Hydrogen Induced Stress Cracking in 25%Cr Duplex Stainless Steel. , 2007, , .		0
26	FE Simulation of Cold Cracking Susceptibility in X70 Structural Steel Welded Joints. , 2011, , .		0
27	Hydrogen Embrittlement Susceptibility of Clad Steel Pipes. , 2017, , .		0