Akihide Nagao

List of Publications by Year
in descending order

13	1,386	1163117 8	1199594 12
papers	citations	h-index	g-index

13	13	13	704
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The role of hydrogen in hydrogen embrittlement fracture of lath martensitic steel. Acta Materialia, 2012, 60, 5182-5189.	7.9	314
2	Enumeration of the hydrogen-enhanced localized plasticity mechanism for hydrogen embrittlement in structural materials. Acta Materialia, 2019, 165, 734-750.	7.9	295
3	Hydrogen-enhanced-plasticity mediated decohesion for hydrogen-induced intergranular and â€œquasi-cleavageâ€•fracture of lath martensitic steels. Journal of the Mechanics and Physics of Solids, 2018, 112, 403-430.	4.8	225
4	The effect of nanosized (Ti,Mo)C precipitates on hydrogen embrittlement of tempered lath martensitic steel. Acta Materialia, 2014, 74, 244-254.	7.9	208
5	Modeling hydrogen transport by dislocations. Journal of the Mechanics and Physics of Solids, 2015, 78, 511-525.	4.8	168
6	Effect of Uniform Distribution of Fine Cementite on Hydrogen Embrittlement of Low Carbon Martensitic Steel Plates. ISIJ International, 2012, 52, 213-221.	1.4	65
7	Interpretation of Hydrogen-induced Fracture Surface Morphologies for Lath Martensitic Steel. , 2014, 3, 1700-1705.		47
8	Achieving a Carbon Neutral Future through Advanced Functional Materials and Technologies. Bulletin of the Chemical Society of Japan, 2022, 95, 73-103.	3.2	39
9	Hydrogen Microprint Analysis on the Effect of Dislocations on Grain Boundary Hydrogen Distribution in Steels. ISIJ International, 2016, 56, 413-417.	1.4	11
10	Effect of Gas Pressure on Hydrogen Environment Embrittlement of Carbon Steel A106 in Carbon Monoxide Mixed Hydrogen Gas. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2022, 53, 74-85.	2.2	8
11	Modeling the Hydrogen Effect on the Constitutive Response of a Low Carbon Steel in Cyclic Loading. Journal of Applied Mechanics, Transactions ASME, 2021, 88, .	2.2	3
12	Development of an Area-selective Technique for Electrochemical Hydrogen Detection with Laser Local Activation. ISIJ International, 2016, 56, 483-486.	1.4	2
13	Dislocation evolution in copper in the absence and presence of hydrogen. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 842, 143082.	5.6	1