Kazuyuki Shimizu

List of Publications by Year
in descending order

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36	597	566801 15	610482 24
papers	citations	h-index	g-index

36	36	36	364
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Assessment of hydrogen embrittlement via image-based techniques in Alâ€“Znâ€“Mgâ€“Cu aluminum alloys. Acta Materialia, 2019, 176, 96-108.	3.8	63
2	Atomic scale HAADF-STEM study of Î·â€² and Î· 1 phases in peak-aged Alâ€“Znâ€“Mg alloys. Journal of Materials Science, 2018, 53, 4598-4611.	1.7	62
3	Enhanced hydrogen embrittlement of Pd-coated niobium metal membrane detected by in situ small punch test under hydrogen permeation. Journal of Alloys and Compounds, 2007, 446-447, 588-592.	2.8	56
4	Influence of hydrogen on strain localization and fracture behavior in Al Zn Mg Cu aluminum alloys. Acta Materialia, 2018, 159, 332-343.	3.8	55
5	Hydrogen-accelerated spontaneous microcracking in high-strength aluminium alloys. Scientific Reports, 2020, 10, 1998.	1.6	38
6	Cavitation during high-temperature deformation in Alâ€“Mg alloys. Acta Materialia, 2013, 61, 2403-2413.	3.8	32
7	High-energy x-ray nanotomography introducing an apodization Fresnel zone plate objective lens. Review of Scientific Instruments, 2021, 92, 023701.	0.6	25
8	Damage micromechanisms of stress corrosion cracking in Al-Mg alloy with high magnesium content. Corrosion Science, 2021, 184, 109343.	3.0	25
9	In-situ 3D observation of hydrogen-assisted particle damage behavior in 7075 Al alloy by synchrotron X-ray tomography. Acta Materialia, 2022, 227, 117658.	3.8	24
10	Hydrogen partitioning behavior and related hydrogen embrittlement in Al-Zn-Mg alloys. Engineering Fracture Mechanics, 2019, 216, 106503.	2.0	23
11	Application of Dual-Energy K-Edge Subtraction Imaging to Assessment of Heat Treatments in Al-Cu Alloys. Materials Transactions, 2010, 51, 2045-2048.	0.4	22
12	Formation behaviour of blister in cast aluminium alloy. International Journal of Cast Metals Research, 2014, 27, 369-377.	0.5	22
13	Suppressed hydrogen embrittlement of high-strength Al alloys by Mn-rich intermetallic compound particles. Acta Materialia, 2022, 236, 118110.	3.8	22
14	An unreported precipitate orientation relationship in Al-Zn-Mg based alloys. Materials Characterization, 2019, 158, 109958.	1.9	20
15	Hydrogen Trapping in Mg₂Si and Al₇FeCu₂ Intermetallic Compounds in Aluminum Alloy: First-Principles Calculations. Materials Transactions, 2020, 61, 1907-1911.	0.4	20
16	Compression and recovery micro-mechanisms in flexible graphite. Carbon, 2013, 59, 184-191.	5.4	15
17	Local Deformation and Fracture Behavior of High-Strength Aluminum Alloys Under Hydrogen Influence. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 1-19.	1.1	15
18	Influence of nanovoids in the hydrogen embrittlement fracture of Alâ€“Znâ€“Mgâ€“Cu alloys. Materialia, 2020, 11, 100667.	1.3	12

#	Article	IF	Citations
19	Microstructure evolution in a hydrogen charged and aged Alâ€“Znâ€“Mg alloy. Materialia, 2018, 3, 50-56.	1.3	11
20	The possible transition mechanism for the meta-stable phase in the 7xxx aluminium. Materials Science and Technology, 2020, 36, 1621-1627.	0.8	8
21	Dynamic Observation of FeSiBPCu Alloys for Crystallization via MeV Electron Irradiation. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2014, 78, 364-368.	0.2	7
22	Evolution Behavior of Hydrogen-Induced Nano Voids in Alâ€“Znâ€“Mgâ€“Cu Aluminum Alloys under Loading. Materials Transactions, 2018, 59, 1532-1535.	0.4	6
23	The Role of Hydrogen on the Local Fracture Toughness Properties of 7XXX Aluminum Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 5368-5381.	1.1	6
24	Precipitation structure and mechanical properties on peak-aged Alâ€“Znâ€“Mg alloys including different with some Zn/Mg ratios. Keikinzoku/Journal of Japan Institute of Light Metals, 2017, 67, 162-167.	0.1	3
25	Hydrogen desorption behavior in Alâ€“8%Znâ€“1%Mg alloy. Keikinzoku/Journal of Japan Institute of Light Metals, 2019, 69, 186-193.	0.1	2
26	3D/4D fracture mechanics evaluation on shear band of aluminum alloys. Keikinzoku/Journal of Japan Institute of Light Metals, 2013, 63, 188-195.	0.1	1
27	Neutron Imaging Analysis of Hydrogen Content in Pure Palladium and Aluminum Alloys. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2019, 83, 434-440.	0.2	1
28	Structural Phase Transformations of Gallium Ion Irradiated SUS304 Steel. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2021, 85, 239-246.	0.2	1
29	Influence of hydrogen on stress corrosion cracking behavior in Alâ€“10Mg alloy. Keikinzoku/Journal of Japan Institute of Light Metals, 2019, 69, 223-227.	0.1	0
30	Optimization of Mechanical Properties in Aluminum Alloys <i>via</i> Hydrogen Partitioning Control. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2019, 105, 240-253.	0.1	0
31	Tomography for Bridging Nano and Macro: Semi-spontaneous Iinterfacial Debonding. Materia Japan, 2021, 60, 13-18.	0.1	0
32	Assessment of Hydrogen Accumulation Behavior in Alâ€“Znâ€“Mg Alloy under Strain with Kelvin Force Microscopy. Materials Transactions, 2021, 62, 636-641.	0.4	0
33	OS0801-143 Hydrogen embrittlement in Al-Zn-Mg alloys. The Proceedings of the Materials and Mechanics Conference, 2015, 2015, _OS0801-14-_OS0801-14.	0.0	0
34	Hydrogen partitioning behavior and hydrogen embrittlement in Al-Zn-Mg alloys. The Proceedings of the Materials and Mechanics Conference, 2016, 2016, OS15-02.	0.0	0
35	Size and distribution of micropores and voids in 5052 aluminum alloys during tensile deformation. Keikinzoku/Journal of Japan Institute of Light Metals, 2018, 68, 630-634.	0.1	0
36	Analysis of Hydrogen Content in Pure Palladium via Neutron Radiography and Tomography. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2020, 84, 270-275.	0.2	0