Yoji Mine

List of Publications by Year
in descending order

79 papers	1,744 citations	279487 23 h-index	301761 39 g-index
80 all docs	80 docs citations	80 times ranked	1111 citing authors

#	Article	IF	Citations
1	Hydrogen Embrittlement Mechanism in Fatigue of Austenitic Stainless Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 1327-1339.	1.1	188
2	Hydrogen Effect against Hydrogen Embrittlement. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 2548-2562.	1.1	157
3	Micro-tension behaviour of lath martensite structures of carbon steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 560, 535-544.	2.6	129
4	Effect of hydrogen on martensite formation in austenitic stainless steels in high-pressure torsion. Acta Materialia, 2009, 57, 2993-3002.	3.8	117
5	Hydrogen uptake in austenitic stainless steels by exposure to gaseous hydrogen and its effect on tensile deformation. Corrosion Science, 2011, 53, 2619-2629.	3.0	78
6	High-pressure torsion of hafnium. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 2136-2141.	2.6	62
7	Effect of high-pressure torsion on hydrogen trapping in Feâ€“0.01 mass% C and type 310S austenitic stainless steel. Acta Materialia, 2010, 58, 649-657.	3.8	55
8	Effect of ultrafine grain refinement on hydrogen embrittlement of metastable austenitic stainless steel. International Journal of Hydrogen Energy, 2017, 42, 15415-15425.	3.8	50
9	Effect of lamellar spacing on fatigue crack growth behaviour of a TiAl-based aluminide with lamellar microstructure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 532, 13-20.	2.6	42
10	Grain-boundary diffusion and precipitate trapping of hydrogen in ultrafine-grained austenitic stainless steels processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 8100-8105.	2.6	36
11	Anisotropy of strength and plasticity in lath martensite steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 674, 104-116.	2.6	34
12	Hydrogen trapping on lattice defects produced by high-pressure torsion in Feâ€“0.01 mass% C alloy. Scripta Materialia, 2010, 63, 552-555.	2.6	31
13	Effect of High-Pressure Torsion Processing and Annealing on Hydrogen Embrittlement of Type 304 Metastable Austenitic Stainless Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 3110-3120.	1.1	29
14	Mechanical characterisation of hydrogen-induced quasi-cleavage in a metastable austenitic steel using micro-tensile testing. Scripta Materialia, 2016, 113, 176-179.	2.6	29
15	Effect of hydrogen on tensile behaviour of micrometre-sized specimen fabricated from a metastable austenitic stainless steel. Corrosion Science, 2011, 53, 529-533.	3.0	26
16	Microtension behaviour of TiAl polysynthetically twinned crystals with 0Â°- and 90Â°-oriented lamellae. Scripta Materialia, 2011, 65, 707-710.	2.6	26
17	Crystallographic fatigue crack growth in titanium single crystals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 7570-7578.	2.6	26
18	Microfracture behaviour of extruded Mgâ€“Znâ€“Y alloys containing long-period stacking ordered structure at room and elevated temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 570, 63-69.	2.6	26

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19	Fatigue Crack Growth Behavior and Hydrogen Penetration Properties in Austenitic Stainless Steels Exposed to High-pressure Hydrogen Gas Environments. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2007, 93, 247-256.	0.1	25
20	Anisotropy of < a > slip behaviour in single-colony lamellar structures of Tiâ€“6Alâ€“4V. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 715, 315-319.	2.6	25
21	Anisotropy of strength and plasticity in single-colony lamellar structure of Tiâ€’6Alâ€’4V alloy. Scripta Materialia, 2020, 177, 223-228.	2.6	25
22	Deformation Behavior of Long-Period Stacking Ordered Structured Single Crystals in Mg₈₅Zn₆Y₉ Alloy. Materials Transactions, 2015, 56, 952-956.	0.4	24
23	Extended ductility due to kink band formation and growth under tensile loading in single crystals of Mg-Zn-Y alloy with 18R-LPSO structure. Journal of Alloys and Compounds, 2019, 806, 1384-1393.	2.8	24
24	Microstructure-sensitive fatigue crack growth in lath martensite of low carbon steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 773, 138830.	2.6	23
25	Study of basal <â€‰aâ€‰> and pyramidal <â€‰câ€‰+â€‰aâ€‰> slips in Mg-Y alloys using micro-pillar compression. Philosophical Magazine, 2020, 100, 1454-1475.	0.7	22
26	Effect of Hydrogen on Fatigue Crack Growth and Martensitic Transformation of Stainless Steels. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2006, 72, 1717-1724.	0.2	21
27	Strengthening and hydrogen embrittlement of ultrafine-grained Feâ€“0.01 mass% C alloy processed by high-pressure torsion. Corrosion Science, 2011, 53, 2969-2977.	3.0	21
28	Effect of Hydrogen on Tensile Properties of Ultrafine-Grained Type 310S Austenitic Stainless Steel Processed by High-Pressure Torsion. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 1619-1629.	1.1	21
29	Fatigue crack growth behaviour in single-colony lamellar structure of Tiâ€“6Alâ€“4V. Scripta Materialia, 2019, 165, 107-111.	2.6	21
30	Temperature dependence of prismatic slip in a single-crystalline long-period stacking ordered Mgâ€“Znâ€“Y alloy. Scripta Materialia, 2020, 178, 498-502.	2.6	20
31	Hydrogen Effects on Ultrafine-Grained Steels Processed by High-Pressure Torsion. Materials Transactions, 2012, 53, 773-785.	0.4	18
32	The Influences of Hydrogen on Microscopic Plastic Deformation Behavior of SUS304 and SUS316L Stainless Steels. Zairyo/Journal of the Society of Materials Science, Japan, 2008, 57, 255-261.	0.1	18
33	Effects of Hydrogen Charge on Cyclic Stress-Strain Properties and Fatigue Behavior of Carbon Steels. Zairyo/Journal of the Society of Materials Science, Japan, 2005, 54, 1225-1230.	0.1	16
34	Crystallographic study of hydrogen-induced twin boundary separation in type 304 stainless steel under cyclic loading. Corrosion Science, 2017, 129, 205-213.	3.0	16
35	Mechanical characterisation of microstructural evolution in 304 stainless steel subjected to high-pressure torsion with and without hydrogen pre-charging. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 661, 87-95.	2.6	14
36	Fatigue crack growth behaviour in austenitic stainless steels subjected to superficial and entire hydrogenation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 548, 118-125.	2.6	13

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37	Effects of Test Frequency on Fatigue Behaviour in a Tempered Martensitic Steel with Hydrogen Charge. Zairyo/Journal of the Society of Materials Science, Japan, 2006, 55, 726-731.	0.1	13
38	Microstructural fatigue crack growth in single-packet structures of ultra-low carbon steel lath martensite. Scripta Materialia, 2019, 173, 80-85.	2.6	12
39	Quantification of Large Deformation with Punching in Dual Phase Steel and Change of its Microstructure â€“Part I: Proposal of the Quantification Technique of the Punching Damage of the Dual Phase Steel. ISIJ International, 2016, 56, 2068-2076.	0.6	11
40	Plasticity and crack extension in single-crystalline long-period stacking ordered structures of Mg85Zn6Y9 alloy under micro-bending. Journal of Alloys and Compounds, 2017, 718, 433-442.	2.8	11
41	Hydrogen Embrittlement of Ultrafine-grained Austenitic Stainless Steels Processed by High-pressure Torsion at Moderate Temperature. ISIJ International, 2016, 56, 1083-1090.	0.6	10
42	Deformation behaviour of nano-twinned single crystals of an Feâ€“19Crâ€“16Ni austenitic alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 675, 181-191.	2.6	10
43	Micro-mechanical characterisation of hydrogen embrittlement in nano-twinned metastable austenitic stainless steel. International Journal of Hydrogen Energy, 2020, 45, 27950-27957.	3.8	10
44	Effect of Crystallographic Orientation on Fatigue Crack Growth of an Fe-3 mass%Si Single Crystal. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1998, 62, 150-158.	0.2	10
45	Microtension behaviour of lenticular martensite structure of Feâ€“30 mass% Ni alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 618, 359-367.	2.6	9
46	Phase transformation and grain refinement in hydrogenated metastable austenitic steel. Scripta Materialia, 2012, 67, 979-982.	2.6	8
47	Phonon excitations in a single crystal Mg85Zn6Y9 with a synchronized long-period stacking ordered phase. Acta Materialia, 2018, 146, 273-279.	3.8	8
48	Enhanced resistance to fatigue crack propagation in metastable austenitic stainless steel by nanotwin bundles. Scripta Materialia, 2021, 201, 113976.	2.6	8
49	Hydrogen effect on cyclic plasticity and crack growth in coarse-grained iron. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 8090-8099.	2.6	7
50	Martensite Formation in Hydrogen-Containing Metastable Austenitic Stainless Steel During Micro-Tension Testing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 3567-3571.	1.1	7
51	High-pressure torsion of metastable austenitic stainless steel at moderate temperatures. Philosophical Magazine Letters, 2015, 95, 269-276.	0.5	7
52	Micro-tensile Behaviour of Low-alloy Steel with Bainite/martensite Microstructure. ISIJ International, 2016, 56, 2313-2319.	0.6	7
53	Comparative Study of Microstructure-sensitive Fatigue Crack Propagation in Coarse- and Fine-grained Microstructures between Stable and Metastable Austenitic Stainless Steels Using Miniature Specimen. ISIJ International, 2021, 61, 1688-1697.	0.6	7
54	Effect of geometric lath orientation on fatigue crack propagation via out-of-plane dislocation glide in martensitic steel. Scripta Materialia, 2021, 203, 114045.	2.6	7

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55	Crack Propagation Behavior under Cyclic Loading in a α-Titanium Single Crystals. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1997, 61, 41-48.	0.2	7
56	Strain Measurement of Micrometre-Sized Structures under Tensile Loading by Using Scanning White-Light Interferometry. Materials Transactions, 2016, 57, 1252-1256.	0.4	6
57	Crystallographic Dependence of Fatigue Crack Growth in Titanium Single Crystals. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1998, 62, 708-717.	0.2	6
58	Crystallographic study of fatigue crack growth in Feâ€“Si alloy single crystals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 534, 260-267.	2.6	5
59	Crystallographic Characterisation of Hydrogen-induced Twin Boundary Separation in Type 304 Stainless Steel Using Micro-tensile Testing. ISIJ International, 2019, 59, 927-934.	0.6	5
60	Excellent mechanical properties of taenite in meteoric iron. Scientific Reports, 2021, 11, 4750.	1.6	5
61	Effect of microstructural evolution on deformation behaviour of pre-strained dual-phase steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 689, 353-365.	2.6	4
62	Quantification of Large Deformation with Punching in Dual Phase Steel and Change of itsâ€™ Microstructure â€“ Part III: Micro-tensile Behavior of Pre-strained Dual-phase Steel. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2016, 102, 260-267.	0.1	4
63	Multiscale mechanical characterization of 601 nickel-based superalloy fabricated using wire-arc additive manufacturing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 836, 142734.	2.6	4
64	Quantification of Large Deformation with Punching in Dual Phase Steel and Change of its Microstructure â€“Part III: Micro-tensile Behavior of Pre-strained Dual-phase Steel. ISIJ International, 2016, 56, 2084-2092.	0.6	3
65	Testing Method for Determination of Microscopic Fracture Toughness for Rock Materials. Geotechnical Testing Journal, 2018, 41, 1092-1101.	0.5	3
66	Micro-mechanical characterisation of slip behaviour and precipitation strengthening in CoCrFeNiTiMo alloy additively manufactured by laser powder bed fusion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 840, 142970.	2.6	3
67	Comparative Study of Shear Fracture between Fe-based Amorphous and Ultrafine-grained Alloys Using Micro-tensile Testing. ISIJ International, 2022, 62, 1741-1749.	0.6	3
68	The Effect of Hydrogen on Fatigue Crack Growth Behavior and Ductility Loss of Austenitic Stainless Steels. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2006, 72, 653-660.	0.2	2
69	Strain Measurement of Micrometre-Sized Structures under Tensile Loading by Using Scanning White-Light Interferometry. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2015, 80, 22-26.	0.2	2
70	Effect of strong gravitational field on oriented crystalline perovskite-type manganese oxide La1â^'x Sr x MnO3. Journal of Materials Science, 2016, 51, 7899-7906.	1.7	2
71	Crystallographic study of plasticity and grain boundary separation in FeCo alloy using small single- and bi-crystalline specimens. Scripta Materialia, 2018, 142, 1-5.	2.6	2
72	Low-Temperature Micro-Fracture Toughness Testing of Grain Boundaries in Steel. Materials Transactions, 2021, 62, 570-573.	0.4	2

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73	Fatigue. Fatigue Crack Growth Behavior in a TiAl Based Aluminide with Lamellar Microstructure.. Zairyo/Journal of the Society of Materials Science, Japan, 1997, 46, 1167-1172.	0.1	2
74	Hydrogen-Induced Microstructural Change under Mode II Fatigue for a Tempered Bearing Steel. Zairyo/Journal of the Society of Materials Science, Japan, 2009, 58, 1009-1016.	0.1	2
75	OS4-6-1 Effects of Hydrogen on Fatigue Crack Growth Behavior and Fracture Surface Morphology of Austenitic Stainless Steels. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2007, 2007.6, _OS4-6-1-1-_OS4-6-1-5.	0.0	0
76	Mechanical Characterization of Micro-Scale Materials. Journal of the Japan Society for Technology of Plasticity, 2015, 56, 840-844.	0.0	0
77	Quantification of Large Deformation with Punching in Dual Phase Steel and Change of itsâ€™ Microstructure â€“ Part I: Proposal of the Quantification Technique of the Punching Damage of the Dual Phase Steel. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2016, 102, 244-252.	0.1	0
78	Micro-tensile Behaviour of Low Alloy Steel with Bainite/martensite Microstructure. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2016, 102, 304-310.	0.1	0
79	Crystallographic Characterisation of Hydrogen-induced Twin Boundary Separation in Type 304 Stainless Steel Using Micro-tensile Testing. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2022, 108, 97-106.	0.1	0