

# Kaneaki Tsuzaki

## List of Publications by Year in descending order

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173  
papers

7,657  
citations

50170

46  
h-index

56606

83  
g-index

176  
all docs

176  
docs citations

176  
times ranked

3305  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen-assisted decohesion and localized plasticity in dual-phase steel. <i>Acta Materialia</i> , 2014, 70, 174-187.	3.8	366
2	Effect of hydrogen on the fracture behavior of high strength steel during slow strain rate test. <i>Corrosion Science</i> , 2007, 49, 4081-4097.	3.0	336
3	Inverse Temperature Dependence of Toughness in an Ultrafine Grain-Structure Steel. <i>Science</i> , 2008, 320, 1057-1060.	6.0	330
4	Stress-strain behavior of ferrite and bainite with nano-precipitation in low carbon steels. <i>Acta Materialia</i> , 2015, 83, 383-396.	3.8	297
5	Bone-like crack resistance in hierarchical metastable nanolaminate steels. <i>Science</i> , 2017, 355, 1055-1057.	6.0	297
6	Overview of hydrogen embrittlement in high-Mn steels. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 12706-12723.	3.8	228
7	Effect of hydrogen and stress concentration on the notch tensile strength of AISI 4135 steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 398, 37-46.	2.6	226
8	Hydrogen-assisted failure in a twinning-induced plasticity steel studied under in situ hydrogen charging by electron channeling contrast imaging. <i>Acta Materialia</i> , 2013, 61, 4607-4618.	3.8	218
9	Work hardening associated with $\epsilon$ -martensitic transformation, deformation twinning and dynamic strain aging in Fe-17Mn-0.6C and Fe-17Mn-0.8C TWIP steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 7310-7316.	2.6	185
10	Hydrogen embrittlement associated with strain localization in a precipitation-hardened Fe-Mn-Al-C light weight austenitic steel. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4634-4646.	3.8	170
11	Hydrogen-induced cracking at grain and twin boundaries in an Fe-Mn-C austenitic steel. <i>Scripta Materialia</i> , 2012, 66, 459-462.	2.6	168
12	The Morphology of Microstructure Composed of Lath Martensites in Steels. <i>Transactions of the Iron and Steel Institute of Japan</i> , 1980, 20, 207-214.	0.2	161
13	Delamination Effect on Impact Properties of Ultrafine-Grained Low-Carbon Steel Processed by Warm Caliber Rolling. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 341-355.	1.1	141
14	Hydrogen embrittlement in a Fe-Mn-C ternary twinning-induced plasticity steel. <i>Corrosion Science</i> , 2012, 54, 1-4.	3.0	134
15	Hydrogen degradation of a boron-bearing steel with 1050 and 1300MPa strength levels. <i>Scripta Materialia</i> , 2005, 52, 403-408.	2.6	130
16	Determination of the critical hydrogen concentration for delayed fracture of high strength steel by constant load test and numerical calculation. <i>Corrosion Science</i> , 2006, 48, 2189-2202.	3.0	129
17	Designing Fe-Mn-Si alloys with improved low-cycle fatigue lives. <i>Scripta Materialia</i> , 2015, 99, 49-52.	2.6	129
18	Recent progress in microstructural hydrogen mapping in steels: Quantification, kinetic analysis, and multi-scale characterisation. <i>Materials Science and Technology</i> , 2017, 33, 1481-1496.	0.8	125

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19	Design Concept and Applications of Fe&ndash;Mn&ndash;Si-Based Alloys&mdash;from Shape-Memory to Seismic Response Control. <i>Materials Transactions</i> , 2016, 57, 283-293.	0.4	117
20	Evaluation of hydrogen entry into high strength steel under atmospheric corrosion. <i>Corrosion Science</i> , 2010, 52, 2758-2765.	3.0	115
21	Hydrogen Trapping in Quenched and Tempered 0.42C-0.30Ti Steel Containing Bimodally Dispersed TiC Particles. <i>ISIJ International</i> , 2003, 43, 539-547.	0.6	109
22	Effect of hydrogen content on the embrittlement in a Fe&sup34;Mn&sup34;C twinning-induced plasticity steel. <i>Corrosion Science</i> , 2012, 59, 277-281.	3.0	103
23	Response of hydrogen trapping capability to microstructural change in tempered Fe&sup34;0.2C martensite. <i>Scripta Materialia</i> , 2005, 52, 467-472.	2.6	89
24	Hydrogen-assisted quasi-cleavage fracture in a single crystalline type 316 austenitic stainless steel. <i>Corrosion Science</i> , 2013, 75, 345-353.	3.0	85
25	Comparative study of hydrogen embrittlement in stable and metastable high-entropy alloys. <i>Scripta Materialia</i> , 2018, 150, 74-77.	2.6	84
26	Nanoindentation-Induced Deformation Behavior in the Vicinity of Single Grain Boundary of Interstitial-Free Steel. <i>Materials Transactions</i> , 2005, 46, 2026-2029.	0.4	82
27	Hydrogen entry into Fe and high strength steels under simulated atmospheric corrosion. <i>Electrochimica Acta</i> , 2011, 56, 1799-1805.	2.6	77
28	Delamination Toughening of Ultrafine Grain Structure Steels Processed through Tempforming at Elevated Temperatures. <i>ISIJ International</i> , 2010, 50, 152-161.	0.6	75
29	Evaluation of susceptibility of high strength steels to delayed fracture by using cyclic corrosion test and slow strain rate test. <i>Corrosion Science</i> , 2010, 52, 1660-1667.	3.0	69
30	Tensile deformation behavior of Fe&sup34;Mn&sup34;C TWIP steel with ultrafine elongated grain structure. <i>Materials Letters</i> , 2012, 75, 169-171.	1.3	69
31	High-resolution transmission electron microscopy study of crystallography and morphology of TiC precipitates in tempered steel. <i>Philosophical Magazine</i> , 2004, 84, 1735-1751.	0.7	68
32	TWIP Effect and Plastic Instability Condition in an Fe&sup34;Mn&sup34;C Austenitic Steel. <i>ISIJ International</i> , 2013, 53, 323-329.	0.6	67
33	Hydrogen Embrittlement Susceptibility of Fe-Mn Binary Alloys with High Mn Content: Effects of Stable and Metastable $\mu$ -Martensite, and Mn Concentration. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 2656-2673.	1.1	67
34	In situ observations of silver-decoration evolution under hydrogen permeation: Effects of grain boundary misorientation on hydrogen flux in pure iron. <i>Scripta Materialia</i> , 2017, 129, 48-51.	2.6	66
35	Spatially and Kinetically Resolved Mapping of Hydrogen in a Twinning-Induced Plasticity Steel by Use of Scanning Kelvin Probe Force Microscopy. <i>Journal of the Electrochemical Society</i> , 2015, 162, C638-C647.	1.3	64
36	Hydrogen Embrittlement of a 1500-MPa Tensile Strength Level Steel with an Ultrafine Elongated Grain Structure. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 1670-1687.	1.1	61

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37	Grain refinement effect on cryogenic tensile ductility in a Fe-Mn-C twinning-induced plasticity steel. <i>Materials &amp; Design</i> , 2013, 49, 234-241.	5.1	61
38	In situ microscopic observations of low-cycle fatigue-crack propagation in high-Mn austenitic alloys with deformation-induced $\mu$ -martensitic transformation. <i>Acta Materialia</i> , 2016, 112, 326-336.	3.8	61
39	Plasticity initiation and subsequent deformation behavior in the vicinity of single grain boundary investigated through nanoindentation technique. <i>Journal of Materials Science</i> , 2007, 42, 1728-1732.	1.7	58
40	Effects of severe plastic deformation on the corrosion behavior of aluminum alloys. <i>Journal of Solid State Electrochemistry</i> , 2009, 13, 277-282.	1.2	55
41	Effect of strain amplitude on the low-cycle fatigue behavior of a new Fe-15Mn-10Cr-8Ni-4Si seismic damping alloy. <i>International Journal of Fatigue</i> , 2016, 88, 132-141.	2.8	54
42	Premature Fracture Mechanism in an Fe-Mn-C Austenitic Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 4063-4074.	1.1	52
43	Hydrogen embrittlement property of a 1700-MPa-class ultrahigh-strength tempered martensitic steel. <i>Science and Technology of Advanced Materials</i> , 2010, 11, 025005.	2.8	51
44	Grain refinement effect on hydrogen embrittlement resistance of an equiatomic CoCrFeMnNi high-entropy alloy. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 17163-17167.	3.8	51
45	Hydrogen-induced delayed fracture of a Fe-22Mn-0.6C steel pre-strained at different strain rates. <i>Scripta Materialia</i> , 2012, 66, 947-950.	2.6	50
46	Overview of Dynamic Strain Aging and Associated Phenomena in Fe-Mn-C Austenitic Steels. <i>ISIJ International</i> , 2018, 58, 1383-1395.	0.6	47
47	Microstructure Evolution in Ferritic Stainless Steels during Large Strain Deformation. <i>Materials Transactions</i> , 2004, 45, 2812-2821.	0.4	46
48	Hydrogen, as an alloying element, enables a greater strength-ductility balance in an Fe-Cr-Ni-based, stable austenitic stainless steel. <i>Acta Materialia</i> , 2020, 199, 181-192.	3.8	44
49	Studies of Evaluation of Hydrogen Embrittlement Property of High-Strength Steels with Consideration of the Effect of Atmospheric Corrosion. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 1290-1300.	1.1	43
50	Hydrogen trapping in carbon supersaturated $\delta$ -iron and its decohesion effect in martensitic steel. <i>Scripta Materialia</i> , 2018, 149, 79-83.	2.6	40
51	Effect of solute atoms on fracture toughness in dilute magnesium alloys. <i>Philosophical Magazine</i> , 2013, 93, 4582-4592.	0.7	39
52	Hydrogen desorption and cracking associated with martensitic transformation in Fe-Cr-Ni-Based austenitic steels with different carbon contents. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 26423-26435.	3.8	39
53	Positive and negative effects of hydrogen on tensile behavior in polycrystalline Fe-30Mn-(6-x)Si-xAl austenitic alloys. <i>Scripta Materialia</i> , 2015, 105, 54-57.	2.6	38
54	Deformation microstructural evolution and strain hardening of differently oriented grains in twinning-induced plasticity $\beta^2$ titanium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 659, 1-11.	2.6	38

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55	Effects of martensitic transformability and dynamic strain age hardenability on plasticity in metastable austenitic steels containing carbon. <i>Journal of Materials Science</i> , 2017, 52, 7868-7882.	1.7	38
56	Two-dimensional Moiré phase analysis for accurate strain distribution measurement and application in crack prediction. <i>Optics Express</i> , 2017, 25, 13465.	1.7	38
57	Ultrafine-Grain Structure Formation in an Al-Mg-Sc Alloy During Warm ECAP. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 1087-1100.	1.1	37
58	Deformation Twinning Behavior of Twinning-induced Plasticity Steels with Different Carbon Concentrations – Part 2: Proposal of Dynamic-strain-aging-assisted Deformation Twinning. <i>ISIJ International</i> , 2015, 55, 1754-1761.	0.6	37
59	Room-temperature blue brittleness of Fe-Mn-C austenitic steels. <i>Scripta Materialia</i> , 2017, 141, 20-23.	2.6	37
60	Hydrogen Embrittlement in Al-added Twinning-induced Plasticity Steels Evaluated by Tensile Tests during Hydrogen Charging. <i>ISIJ International</i> , 2012, 52, 2283-2287.	0.6	35
61	Evaluation of delayed fracture property of outdoor-exposed high strength AISI 4135 steels. <i>Corrosion Science</i> , 2010, 52, 3198-3204.	3.0	34
62	Martensitic transformation-induced hydrogen desorption characterized by utilizing cryogenic thermal desorption spectroscopy during cooling. <i>Scripta Materialia</i> , 2016, 122, 50-53.	2.6	34
63	Overview of metastability and compositional complexity effects for hydrogen-resistant iron alloys: Inverse austenite stability effects. <i>Engineering Fracture Mechanics</i> , 2019, 214, 123-133.	2.0	33
64	Quasi-cleavage Fracture along Annealing Twin Boundaries in a Fe-Mn-C Austenitic Steel. <i>ISIJ International</i> , 2012, 52, 161-163.	0.6	31
65	Constant-load delayed fracture test of atmospherically corroded high strength steels. <i>Applied Surface Science</i> , 2011, 257, 8275-8281.	3.1	30
66	Effect of Dislocation Density on the Initiation of Plastic Deformation on Fe&ndash;C Steels. <i>Materials Transactions</i> , 2012, 53, 907-912.	0.4	30
67	On Strengthening of Austenitic Stainless Steel by Large Strain Cold Working. <i>ISIJ International</i> , 2016, 56, 1289-1296.	0.6	30
68	Effects of Mn Content and Grain Size on Hydrogen Embrittlement Susceptibility of Face-Centered Cubic High-Entropy Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 5612-5616.	1.1	30
69	Influence of Dislocation Separation on Dynamic Strain Aging in a Fe&ndash;Mn&ndash;C Austenitic Steel. <i>Materials Transactions</i> , 2012, 53, 546-552.	0.4	29
70	Microstructural Analyses of Modified-Ausformed Medium-Carbon Steel with High Resistance to Hydrogen Embrittlement by Atomic Force Microscopy. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2002, 66, 745-753.	0.2	28
71	Selective appearance of $\epsilon$ -martensitic transformation and dynamic strain aging in Fe-Mn-C austenitic steels. <i>Philosophical Magazine</i> , 2012, 92, 3051-3063.	0.7	28
72	Application of orthogonally arranged FIB&ndash;SEM for precise microstructure analysis of materials. <i>Journal of Alloys and Compounds</i> , 2013, 577, S717-S721.	2.8	28

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73	Tempforming in medium-carbon low-alloy steel. <i>Journal of Alloys and Compounds</i> , 2013, 577, S538-S542.	2.8	28
74	Enhancement of Upper Shelf Energy through Delamination Fracture in 0.05 $\hat{\text{A}}$ pct P Doped High-Strength Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 2453-2465.	1.1	27
75	Delamination toughening assisted by phosphorus in medium-carbon low-alloy steels with ultrafine elongated grain structures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 649, 135-145.	2.6	27
76	Effects of $\hat{\mu}$ -martensitic transformation on crack tip deformation, plastic damage accumulation, and slip plane cracking associated with low-cycle fatigue crack growth. <i>International Journal of Fatigue</i> , 2017, 103, 533-545.	2.8	27
77	Comparative study on small fatigue crack propagation between Fe-30Mn-3Si-3Al and Fe-23Mn-0.5C twinning-induced plasticity steels: Aspects of non-propagation of small fatigue cracks. <i>International Journal of Fatigue</i> , 2017, 94, 1-5.	2.8	27
78	Importance of crack-propagation-induced $\hat{\mu}$ -martensite in strain-controlled low-cycle fatigue of high-Mn austenitic steel. <i>Philosophical Magazine Letters</i> , 2015, 95, 303-311.	0.5	25
79	Combined Multi-scale Analyses on Strain/Damage/Microstructure in Steel: Example of Damage Evolution Associated with $\hat{\mu}$ -martensitic Transformation. <i>ISIJ International</i> , 2016, 56, 2037-2046.	0.6	25
80	Hydrogen-assisted damage in austenite/martensite dual-phase steel. <i>Philosophical Magazine Letters</i> , 2016, 96, 9-18.	0.5	25
81	Effects of Static and Dynamic Strain Aging on Hydrogen Embrittlement in TWIP Steels Containing Al. <i>ISIJ International</i> , 2013, 53, 1268-1274.	0.6	24
82	Microstructure Evolution Associated with a Superior Low-Cycle Fatigue Resistance of the Fe-30Mn-4Si-2Al Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 5103-5113.	1.1	24
83	Low-and High-cycle Fatigue Properties of Ultrafine-grained Low Carbon Steels. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2003, 89, 726-733.	0.1	23
84	Revisiting the effects of hydrogen on deformation-induced $\hat{\mu}$ -martensitic transformation. <i>Materials Letters</i> , 2019, 249, 197-200.	1.3	22
85	Development of Fine-Grained Structure Caused by Friction Stir Welding Process of a ZK60A Magnesium Alloy. <i>Materials Transactions</i> , 2009, 50, 610-617.	0.4	19
86	Inverse grain size dependence of critical strain for serrated flow in a Fe $\hat{\text{A}}$ Mn $\hat{\text{A}}$ C twinning-induced plasticity steel. <i>Philosophical Magazine Letters</i> , 2012, 92, 145-152.	0.5	19
87	Effects of Si on Tensile Properties Associated with Deformation-Induced $\hat{\mu}$ -Martensitic Transformation in High Mn Austenitic Alloys. <i>Materials Transactions</i> , 2015, 56, 819-825.	0.4	19
88	Strain rate and hydrogen effects on crack growth from a notch in a Fe-high-Mn steel containing 1.1 $\hat{\text{A}}$ wt% solute carbon. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 1125-1139.	3.8	19
89	Evaluation of Hydrogen Embrittlement Susceptibility of High Strength Steel by the Weibull Stress. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2001, 65, 1073-1081.	0.2	19
90	High-concentration carbon assists plasticity-driven hydrogen embrittlement in a Fe-high Mn steel with a relatively high stacking fault energy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 717, 78-84.	2.6	18

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91	Evaluation of Grain Boundary Effect on Strength of Fe&ndash;C Low Alloy Martensitic Steels by Nanoindentation Technique. <i>Materials Transactions</i> , 2005, 46, 1301-1305.	0.4	17
92	Hexagonal close-packed Martensite-related Fatigue Crack Growth under the Influence of Hydrogen: Example of Fe&#x2013;15Mn&#x2013;10Cr&#x2013;8Ni&#x2013;4Si Austenitic Alloy. <i>Scripta Materialia</i> , 2016, 113, 6-9.	2.6	17
93	Enhanced uniform elongation by pre-straining with deformation twinning in high-strength $\beta$ -titanium alloys with an isothermal $\beta$ -phase. <i>Philosophical Magazine Letters</i> , 2012, 92, 726-732.	0.5	16
94	Crack propagation behaviour in magnesium binary alloys. <i>Philosophical Magazine</i> , 2014, 94, 3317-3330.	0.7	15
95	First-principles Calculation of Effects of Carbon on Tetragonality and Magnetic Moment in Fe&#x2013;C System. <i>ISIJ International</i> , 2015, 55, 2483-2491.	0.6	15
96	An unconventional hydrogen effect that suppresses thermal formation of the hcp phase in fcc steels. <i>Scientific Reports</i> , 2018, 8, 16136.	1.6	15
97	Microstructural Analyses of Grain Boundary Carbides of Tempered Martensite in Medium-Carbon Steel by Atomic Force Microscopy. <i>Materials Transactions</i> , 2002, 43, 1758-1766.	0.4	14
98	Evaluation of matrix strength in ultra-fine grained pure Al by nanoindentation. <i>Journal of Materials Research</i> , 2009, 24, 2917-2923.	1.2	14
99	Multiscale in situ deformation experiments: A sequential process from strain localization to failure in a laminated Ti-6Al-4V alloy. <i>Materials Characterization</i> , 2017, 128, 217-225.	1.9	14
100	EBSD- and ECCI-based Assessments of Inhomogeneous Plastic Strain Evolution Coupled with Digital Image Correlation. <i>ISIJ International</i> , 2019, 59, 2334-2342.	0.6	14
101	Influence of Processing Regimes on Fine-Grained Microstructure Development in an Al&ndash;Mg&ndash;Sc Alloy by Hot Equal-Channel Angular Pressing. <i>Materials Transactions</i> , 2012, 53, 56-62.	0.4	13
102	Randomization of Ferrite/austenite Orientation Relationship and Resultant Hardness Increment by Nitrogen Addition in Vanadium-microalloyed Low Carbon Steels Strengthened by Interphase Precipitation. <i>ISIJ International</i> , 2018, 58, 542-550.	0.6	13
103	Growth Behavior of a Mechanically Long Fatigue Crack in an FeCrNiMnCo High Entropy Alloy: A Comparison with an Austenitic Stainless Steel. <i>ISIJ International</i> , 2020, 60, 175-181.	0.6	13
104	Effect of deformation temperature on tensile properties in a pre-cooled Fe&#x2013;Mn&#x2013;C austenitic steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 556, 331-336.	2.6	12
105	&lt;i>Reverse Transformation-induced Hydrogen Desorption and Mn Effect on Hydrogen Uptake in Fe&#x2013;Mn Binary Alloys. ISIJ International, 2015, 55, 2269-2271.	0.6	12
106	Effect of deformation twin on toughness in magnesium binary alloys. <i>Philosophical Magazine</i> , 2015, 95, 2513-2526.	0.7	12
107	Non-propagating fatigue cracks in austenitic steels with a micro-notch: Effects of dynamic strain aging, martensitic transformation, and microstructural hardness heterogeneity. <i>International Journal of Fatigue</i> , 2018, 113, 359-366.	2.8	12
108	Localized Plasticity and Associated Cracking in Stable and Metastable High-Entropy Alloys Pre-Charged with Hydrogen. <i>Procedia Structural Integrity</i> , 2018, 13, 716-721.	0.3	12

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109	Optical Microscopy-Based Damage Quantification: an Example of Cryogenic Deformation of a Dual-Phase Steel. <i>ISIJ International</i> , 2018, 58, 179-185.	0.6	12
110	Detection of hydrogen effusion before, during, and after martensitic transformation: Example of multiphase transformation-induced plasticity steel. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 26028-26035.	3.8	12
111	Lowering Strain Rate Simultaneously Enhances Carbon- and Hydrogen-Induced Mechanical Degradation in an Fe-33Mn-1.1C Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 1137-1141.	1.1	12
112	Effect of Nano-Sized Oxides on Annealing Behaviour of Ultrafine Grained Steels. <i>Materials Transactions</i> , 2004, 45, 2252-2258.	0.4	11
113	Observations of Prior Austenite Grain Boundaries and Carbides in the Same Area of Tempered Martensite in Medium-Carbon Steel by Atomic Force Microscopy. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2001, 65, 734-741.	0.2	10
114	EBSD and ECCI Based Assessments of Inhomogeneous Plastic Strain Evolution Coupled with Digital Image Correlation. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2019, 105, 222-230.	0.1	10
115	In-Situ Electron Channeling Contrast Imaging under Tensile Loading: Residual Stress, Dislocation Motion, and Slip Line Formation. <i>Scientific Reports</i> , 2020, 10, 2622.	1.6	10
116	Factors Affecting Static Strain Aging under Stress at Room Temperature in a Fe-Mn-C Twinning-induced Plasticity Steel. <i>ISIJ International</i> , 2013, 53, 1089-1096.	0.6	9
117	Microstructural damage evolution and arrest in binary Fe-high-Mn alloys with different deformation temperatures. <i>International Journal of Fracture</i> , 2018, 213, 193-206.	1.1	9
118	Determination Method of Weibull Shape Parameter for Evaluation of the Hydrogen Embrittlement Susceptibility of High Strength Steel. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2001, 65, 1082-1090.	0.2	8
119	A New Approach for Interpretation of Strengthening Mechanism of Martensitic Steel through Characterization of Local Deformation Behavior. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2006, 92, 295-310.	0.1	8
120	Recrystallization Mechanisms in Severely Deformed Dual-Phase Stainless Steel. <i>Materials Science Forum</i> , 0, 638-642, 1905-1910.	0.3	8
121	Deformation Twinning Behavior of Twinning-Induced Plasticity Steels with Different Carbon Concentrations. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2014, 100, 1246-1252.	0.1	8
122	Hydrogen Entry in Crevice Region: Evaluation by Hydrogen Permeation Technique. <i>ISIJ International</i> , 2006, 46, 1081-1085.	0.6	8
123	Deformation Twinning Behavior of Twinning-induced Plasticity Steels with Different Carbon Concentrations – Part 1: Atomic Force Microscopy and Electron Backscatter Diffraction Measurements. <i>ISIJ International</i> , 2015, 55, 1747-1753.	0.6	8
124	Microstructure effect on nanohardness distribution for medium-carbon martensitic steel. <i>Science in China Series D: Earth Sciences</i> , 2006, 49, 10-19.	0.9	7
125	Effect of Initial Microstructure on Impact Toughness of 1200MPa-Class High Strength Steel with Ultrafine Elongated Grain Structure. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 647-653.	1.1	7
126	Effect of Hydrogen on the Substructure of Lenticular Martensite in Fe-31Ni Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 4027-4036.	1.1	7



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127	Growth Behavior of a Mechanically Long Fatigue Crack in an FeCrNiMnCo High Entropy Alloy: A Comparison with an Austenitic Stainless Steel. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2019, 105, 215-221.	0.1	7
128	Fatigue Crack Growth at Different Frequencies and Temperatures in an Fe-based Metastable High-entropy Alloy. <i>ISIJ International</i> , 2021, 61, 641-647.	0.6	7
129	Evolution of Quasi-Brittle Hydrogen-Assisted Damages in a Dual-Phase Steel. <i>Materials Transactions</i> , 2019, 60, 2368-2377.	0.4	7
130	Microstructure characteristic and its effect on mechanical and shape memory properties in a Fe-17Mn-8Si-0.3C alloy. <i>Journal of Alloys and Compounds</i> , 2013, 573, 15-19.	2.8	6
131	Toughening by the addition of phosphorus to a high-strength steel with ultrafine elongated grain structure. <i>Philosophical Magazine Letters</i> , 2013, 93, 109-115.	0.5	6
132	Deformation Twinning Behavior of Twinning-Induced Plasticity Steels with Different Carbon Concentrations. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2014, 100, 1253-1260.	0.1	6
133	Combined Multi-scale Analyses on Strain/Damage/Microstructure in Steel: Example of Damage Evolution Associated with $\mu$ -martensitic Transformation. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2016, 102, 227-236.	0.1	6
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