Takahiro Sawaguchi

List of Publications by Year
in descending order

124 papers	3,185 citations	147566 31 h-index	168136 53 g-index
127 all docs	127 docs citations	127 times ranked	1504 citing authors

#	Article	IF	Citations
1	Work hardening associated with É›-martensitic transformation, deformation twinning and dynamic strain aging in Feâ€“17Mnâ€“0.6C and Feâ€“17Mnâ€“0.8C TWIP steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 7310-7316.	2.6	185
2	Hydrogen-induced cracking at grain and twin boundaries in an Feâ€“Mnâ€“C austenitic steel. Scripta Materialia, 2012, 66, 459-462.	2.6	168
3	Designing Feâ€“Mnâ€“Si alloys with improved low-cycle fatigue lives. Scripta Materialia, 2015, 99, 49-52.	2.6	129
4	Structural fatigue of pseudoelastic NiTi shape memory wires. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 378, 105-109.	2.6	123
5	Crack initiation and propagation in 50.9 at. pct Ni-Ti pseudoelastic shape-memory wires in bending-rotation fatigue. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2003, 34, 2847-2860.	1.1	117
6	Design Concept and Applications of Fe–Mn–Si-Based Alloys—from Shape-Memory to Seismic Response Control. Materials Transactions, 2016, 57, 283-293.	0.4	117
7	Effect of alloying composition on low-cycle fatigue properties and microstructure of Feâ€“30Mnâ€“(6â`x)Siâ€“xAl TRIP/TWIP alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 587, 192-200.	2.6	105
8	Origin of zero and negative thermal expansion in severely-deformed superelastic NiTi alloy. Acta Materialia, 2017, 124, 79-92.	3.8	94
9	Effect of pre-deformation at room temperature on shape memory properties of stainless type Feâ€“15Mnâ€“5Siâ€“9Crâ€“5Niâ€“(0.5â€“1.5)NbC alloys. Acta Materialia, 2005, 53, 4009-4018.	3.8	92
10	Vibration mitigation by the reversible fcc/hcp martensitic transformation during cyclic tensionâ€“compression loading of an Feâ€“Mnâ€“Si-based shape memory alloy. Scripta Materialia, 2006, 54, 1885-1890.	2.6	91
11	Mechanism of reversible transformation-induced plasticity of Feâ€“Mnâ€“Si shape memory alloys. Scripta Materialia, 2008, 59, 826-829.	2.6	91
12	Hydrogen-assisted quasi-cleavage fracture in a single crystalline type 316 austenitic stainless steel. Corrosion Science, 2013, 75, 345-353.	3.0	85
13	Effect of Î³ to Îµ martensitic transformation on low-cycle fatigue behaviour and fatigue microstructure of Feâ€“15Mnâ€“10Crâ€“8Niâ€“xSi austenitic alloys. Acta Materialia, 2016, 105, 207-218.	3.8	68
14	TWIP Effect and Plastic Instability Condition in an Fe^|^ndash;Mn^|^ndash;C Austenitic Steel. ISIJ International, 2013, 53, 323-329.	0.6	67
15	Hydrogen Embrittlement Susceptibility of Fe-Mn Binary Alloys with High Mn Content: Effects of Stable and Metastable Îµ-Martensite, and Mn Concentration. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 2656-2673.	1.1	67
16	Development of Prestressed Concrete Using Fe–Mn–Si-Based Shape Memory Alloys Containing NbC. Materials Transactions, 2006, 47, 580-583.	0.4	63
17	In situ microscopic observations of low-cycle fatigue-crack propagation in high-Mn austenitic alloys with deformation-induced Îµ-martensitic transformation. Acta Materialia, 2016, 112, 326-336.	3.8	61
18	{332}ã€ˆ113ã€‰ Twinning system selection in a Î²-type Tiâ€“15Moâ€“5Zr polycrystalline alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 579, 164-169.	2.6	59

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19	Effect of strain amplitude on the low-cycle fatigue behavior of a new Feâ€“15Mnâ€“10Crâ€“8Niâ€“4Si seismic damping alloy. International Journal of Fatigue, 2016, 88, 132-141.	2.8	54
20	Premature Fracture Mechanism in an Fe-Mn-C Austenitic Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 4063-4074.	1.1	52
21	Overview of Dynamic Strain Aging and Associated Phenomena in Feâ€“Mnâ€“C Austenitic Steels. ISIJ International, 2018, 58, 1383-1395.	0.6	47
22	Nanoindentation/atomic force microscopy analyses of Îµ-martensitic transformation and shape memory effect in Feâ€“28Mnâ€“6Siâ€“5Cr alloy. Scripta Materialia, 2011, 65, 942-945.	2.6	43
23	The effects of thermomechanical training treatment on the deformation characteristics of Feâ€“Mnâ€“Siâ€“Al alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 497, 353-357.	2.6	42
24	Si content dependence on shape memory and tensile properties in Feâ€“Mnâ€“Siâ€“C alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 2882-2888.	2.6	40
25	A strategy of designing high-entropy alloys with high-temperature shape memory effect. Scientific Reports, 2019, 9, 13140.	1.6	38
26	Effects of Composition and Annealing on Shape Memory Behavior of Ti-Rich Ti-Ni Thin Films Formed by Sputtering. Materials Transactions, 2001, 42, 1060-1067.	0.4	37
27	Deformation Twinning Behavior of Twinning-induced Plasticity Steels with Different Carbon Concentrations â€" Part 2: Proposal of Dynamic-strain-aging-assisted Deformation Twinning. ISIJ International, 2015, 55, 1754-1761.	0.6	37
28	Microstructure and shape memory behavior of Ti51.2(Pd27.0Ni21.8) and Ti49.5(Pd28.5Ni22.0) thin films. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 332, 47-55.	2.6	35
29	Reasons for incomplete shape recovery in polycrystalline Feâ€“Mnâ€“Si shape memory alloys. Scripta Materialia, 2012, 67, 37-40.	2.6	33
30	Grain-size effect on shape-memory behavior of Ti35.0Ni49.7Zr15.4 thin films. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 111-119.	1.1	32
31	A structure created by intersecting<i>Ïµ</i>martensite variant plates in a high-manganese steel. Philosophical Magazine, 2011, 91, 4410-4426.	0.7	32
32	Quasi-cleavage Fracture along Annealing Twin Boundaries in a Feâ€“Mnâ€“C Austenitic Steel. ISIJ International, 2012, 52, 161-163.	0.6	31
33	The pseudoelastic behavior of Feâ€“Mnâ€“Si-based shape memory alloys containing Nb and C. Smart Materials and Structures, 2005, 14, S317-S322.	1.8	29
34	Influence of Dislocation Separation on Dynamic Strain Aging in a Fe–Mn–C Austenitic Steel. Materials Transactions, 2012, 53, 546-552.	0.4	29
35	Selective appearance of<i>Ïµ</i>-martensitic transformation and dynamic strain aging in Feâ€“Mnâ€“C austenitic steels. Philosophical Magazine, 2012, 92, 3051-3063.	0.7	28
36	Simultaneous twinning nucleation mechanisms in an Feâ€“Mnâ€“Siâ€“Al twinning induced plasticity steel. Acta Materialia, 2017, 132, 264-275.	3.8	28

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37	Influence of Al on Shape Memory Effect and Twinning Induced Plasticity of Fe-Mn-Si-Al System Alloy. Materials Transactions, 2007, 48, 2729-2734.	0.4	27
38	Effects of Îµ-martensitic transformation on crack tip deformation, plastic damage accumulation, and slip plane cracking associated with low-cycle fatigue crack growth. International Journal of Fatigue, 2017, 103, 533-545.	2.8	27
39	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. International Journal of Fatigue, 2017, 94, 1-5.	2.8	27
40	Twinning of deformation-induced Îµ-martensite in Fe-30Mn-6Si shape memory alloy. Acta Materialia, 2018, 143, 237-247.	3.8	26
41	Orientation dependence of variant selection and intersection reactions of<i>Ïµ</i>martensite in a high-manganese austenitic steel. Philosophical Magazine Letters, 2011, 91, 563-571.	0.5	25
42	Importance of crack-propagation-induced Îµ-martensite in strain-controlled low-cycle fatigue of high-Mn austenitic steel. Philosophical Magazine Letters, 2015, 95, 303-311.	0.5	25
43	Effects of Nb and C in Solution and in NbC Form on the Transformation-related Internal Friction of Feâ€“17Mn (mass%) Alloys. ISIJ International, 2008, 48, 99-106.	0.6	25
44	Microstructure Evolution Associated with a Superior Low-Cycle Fatigue Resistance of the Fe-30Mn-4Si-2Al Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 5103-5113.	1.1	24
45	Fatigueâ€resistant Feâ€Mnâ€Siâ€based alloy seismic dampers to counteract longâ€period ground motion. Japan Architectural Review, 2021, 4, 76-87.	0.4	24
46	Texture evolution analysis of warm-rolled Feâ€“28Mnâ€“6Siâ€“5Cr shape memory alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 494, 217-226.	2.6	21
47	Inverse grain size dependence of critical strain for serrated flow in a Feâ€“Mnâ€“C twinning-induced plasticity steel. Philosophical Magazine Letters, 2012, 92, 145-152.	0.5	19
48	Effects of Si on Tensile Properties Associated with Deformation-Induced ε-Martensitic Transformation in High Mn Austenitic Alloys. Materials Transactions, 2015, 56, 819-825.	0.4	19
49	Mechanical properties of an Fe-30Mn-4Si-2Al alloy after rolling at different temperatures ranging from 298 to 1073â€¯K. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 725, 127-137.	2.6	19
50	Low-cycle fatigue life and plasticity mechanisms of a Feâˆ'15Mnâˆ'10Crâˆ'8Niâˆ'4Si seismic damping alloy under cyclic loading at various temperatures. Acta Materialia, 2021, 220, 117267.	3.8	17
51	Work hardening and uniform elongation of an ultrafine-grained Feâ€“33Mn binary alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 530, 659-663.	2.6	16
52	Superior fatigue life of Fe-15Mn-10Cr-8Ni-4Si seismic damping alloy subjected to extremely high strain amplitudes. Materials Letters, 2018, 230, 257-260.	1.3	16
53	Shape memory effect in Feâ€“Mnâ€“Niâ€“Siâ€“C alloys with low Mn contents. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 5251-5258.	2.6	15
54	Temperature dependence of intersection reactions of É› martensite plates in an Feâ€“30Mnâ€“4Siâ€“2Al TRIP/TWIP steel. Journal of Alloys and Compounds, 2013, 577, S533-S537.	2.8	15

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55	AFM Observation of Microstructural Changes in Fe-Mn-Si-Al Shape Memory Alloy. Materials Transactions, 2008, 49, 812-816.	0.4	14
56	Effect of Deformation Temperature on Low-Cycle Fatigue Properties of Fe-28Mn-6Si-5Cr Shape Memory Alloy. Materials Transactions, 2016, 57, 639-646.	0.4	14
57	EBSD analysis of dual Î³/Îµ phase microstructures in tensile-deformed Fe-Mn-Si shape memory alloy. Journal of Alloys and Compounds, 2019, 797, 529-536.	2.8	13
58	Effect of deformation temperature on tensile properties in a pre-cooled Feâ€"Mnâ€"C austenitic steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 556, 331-336.	2.6	12
59	Microstructural hardness heterogeneity triggers fatigue crack non-propagation in as-hot-rolled Fe-30Mn-3Si-3Al twinning-induced plasticity steel. International Journal of Fatigue, 2018, 108, 18-24.	2.8	12
60	Improved fatigue life of the newly developed Fe-15Mn-10Cr-8Ni-4Si seismic damping alloy. Procedia Structural Integrity, 2019, 19, 214-223.	0.3	12
61	Microstructure and Plasticity Evolution During LÃ¼ders Deformation in an Fe-5Mn-0.1C Medium-Mn Steel. ISIJ International, 2022, 62, 2036-2042.	0.6	12
62	Mechanical-probabilistic evaluation of size effect of fatigue life using data obtained from single smooth specimen: An example using Fe-30Mn-4Si-2Al seismic damper alloy. Engineering Failure Analysis, 2017, 72, 34-47.	1.8	11
63	Internal Friction of Fe-Mn-Si-Based Shape Memory Alloys Containing Nb and C and Their Application as a Seismic Damping Material. Key Engineering Materials, 2006, 319, 53-58.	0.4	10
64	Internal friction study on fcc/hcp martensitic transformations in thermomechanically treated Feâ€"28Mnâ€"6Siâ€"5Crâ€"0.53Nbâ€"0.06C (mass%) alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 442, 404-408.	2.6	10
65	TWIP Effect and Plastic Instability Condition in an Fe-Mn-C Austenitic Steel. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2012, 98, 229-236.	0.1	10
66	Characterization of crystallographic fracture surfaces in Feâ€"33Mnâ€"6Si alloy. International Journal of Fatigue, 2020, 130, 105271.	2.8	10
67	Influence of cold rolling deformation mechanisms on the grain refinement of Feâ€"15Mnâ€"10Crâ€"8Niâ€"4Si austenitic alloy. Materials Characterization, 2020, 162, 110191.	1.9	10
68	Microstructure change and shape memory characteristics in welded Feâ€"28Mnâ€"6Siâ€"5Crâ€"0.53Nbâ€"0.06C alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 800-803.	2.6	9
69	Internal friction of an Feâ€"28Mnâ€"6Siâ€"5Crâ€"0.5NbC shape memory alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 796-799.	2.6	9
70	Comparison of Reverse Transformation Behaviors of Thermally- and Deformation-Induced Îµ-Martensite in Fe-28Mn-6Si-5Cr Shape Memory Alloy. Materials Transactions, 2016, 57, 1707-1713.	0.4	9
71	Microstructural damage evolution and arrest in binary Feâ€"high-Mn alloys with different deformation temperatures. International Journal of Fracture, 2018, 213, 193-206.	1.1	9
72	Continuous Transition of Deformation Modes in Fe-30Mn-5Si-1Al Alloy. Materials Transactions, 2010, 51, 1194-1199.	0.4	8

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73	Deformation Twinning Behavior of Twinning-Induced Plasticity Steels with Different Carbon Concentrations. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2014, 100, 1246-1252.	0.1	8
74	Deformation Twinning Behavior of Twinning-induced Plasticity Steels with Different Carbon Concentrations â€" Part 1: Atomic Force Microscopy and Electron Backscatter Diffraction Measurements. ISIJ International, 2015, 55, 1747-1753.	0.6	8
75	Transformation-induced plasticity via Î³ â†' Îµ â†' Î±â€™ and Î³ â†' Îµ â†' Î³ martensitic transformations in Feâ€"15Mnâ€"10Crâ€"8Niâ€"4Si alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 833, 142583.	2.6	8
76	Development of ferrous-based weldable seismic damping alloy with prolonged plastic fatigue life. Scripta Materialia, 2021, 197, 113815.	2.6	7
77	Development of Prestressed Concrete Using Fe-Mn-Si-Based Shape Memory Alloys Containing NbC. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2005, 69, 659-662.	0.2	6
78	Influence of Al on Shape Memory Effect and Twinning Induced Plasticity of Fe-Mn-Si-Al System Alloy. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2007, 71, 502-507.	0.2	6
79	Mechanism of the Improvement of Shape Memory Effects in NbC Containing Fe-Mn-Si-Based Shape Memory Alloys. Materials Transactions, 2007, 48, 869-877.	0.4	6
80	Microstructure characteristic and its effect on mechanical and shape memory properties in a Feâ€"17Mnâ€"8Siâ€"0.3C alloy. Journal of Alloys and Compounds, 2013, 573, 15-19.	2.8	6
81	Deformation Twinning Behavior of Twinning-Induced Plasticity Steels with Different Carbon Concentrations. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2014, 100, 1253-1260.	0.1	6
82	Overview of Dynamic Strain Aging and Associated Phenomena in Fe-Mn-C Austenitic Steels. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2018, 104, 187-200.	0.1	6
83	Fatigue properties and plastically deformed microstructure of Fe-15Mn-10Cr-8Ni-4Si alloy in high-cycle-fatigue regime. International Journal of Fatigue, 2019, 129, 105224.	2.8	6
84	Direct observation of solidification behaviors of Fe-Mn-Si alloys during TIG spot welding using synchrotron X-ray. Scripta Materialia, 2022, 216, 114743.	2.6	6
85	Isothermal fcc/hcp Transformation in Fe-Si-C-Alloy Thermally Treated at Lower Bainitic Transformation Temperature. Materials Transactions, 2009, 50, 2778-2784.	0.4	5
86	Atomic Arrangement of Interphase Boundary between Bainite and Austenite in Fe-Si-C Alloy. Materials Transactions, 2010, 51, 455-462.	0.4	5
87	Superior fatigue life of Fe-15Mn-10Cr-8Ni-4Si seismic damping alloy under asymmetric cyclic loading with tensile mean strain. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 748, 371-378.	2.6	5
88	Low Cycle Fatigue Properties of Fe-28Mn-6Si-5Cr-0.5NbC Alloy. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2016, 102, 517-524.	0.1	5
89	Sputter-Deposited TiZrNi High-Temperature Shape-Memory Thin Films. Materials Science Forum, 2002, 394-395, 499-502.	0.3	4
90	Mechanism of Improvement of Shape Memory Effect in NbC Containing Fe-Mn-Si-Based Shape Memory Alloys. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2006, 70, 25-33.	0.2	4

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91	Atomic Force Microscopic Observation of Microstructural Changes in Fe-Mn-Si-Al Shape Memory Alloy. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2007, 71, 672-677.	0.2	4
92	Continuous Transition of Deformation Mode in Fe-30Mn-5Si-1Al Alloy. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2009, 73, 174-179.	0.2	4
93	Influence of Transformation Pseudoelasticity and Accumulated Plastic Strain on Low Cycle Fatigue Characteristics of Fe-30Mn-4Si-2Al Alloy. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2018, 104, 393-399.	0.1	4
94	Origin of phase stability in Fe with long-period stacking order as an intermediate phase in cyclic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î³</mml:mi><mml:mtext>âˆ’</mml:mtext><mml:mi>Îµ</mml:mi></mm martensitic transformation. Physical Review Research, 2021, 3, .	1.3	4
95	New PTC Materials Based on Bi Metal/Ceramics Composites. Materials Transactions, JIM, 1997, 38, 353-358.	0.9	3
96	An attempt to lower Mn content of Feâ€“17Mnâ€“6Siâ€“0.3C shape memory alloy. Journal of Alloys and Compounds, 2013, 577, S478-S482.	2.8	3
97	Effects of Si on Tensile Properties Associated with Deformation-Induced ε-Martensitic Transformation in High Mn Austenitic Alloys. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2015, 79, 657-663.	0.2	3
98	Fatigue properties of Fe-28Mn-6Si-5Cr-0.5NbC alloy. Procedia Structural Integrity, 2016, 2, 1435-1442.	0.3	3
99	Deformation microstructure of TRIP/TWIP Steels at the early deformation stages. , 2009, , .		3
100	Origin of Appearance of PTCR Properties in Bi–Sr–Ti–O System. Materials Transactions, JIM, 1996, 37, 426-429.	0.9	2
101	Microstructures and PTCR Properties of Bismuth Metal/Strontium-Bismuth-Titanate Ceramic Composites. Materials Transactions, JIM, 1999, 40, 404-407.	0.9	2
102	Martensite Transformation and Shape Recovery in Pre-Deformed Fe-15Mn-5Si-9Cr-5Ni-(0.5–1.5) NbC Alloys. Materials Transactions, 2006, 47, 1328-1331.	0.4	2
103	Atomic Arrangement of Interphase Boundary between Bainite and Austenite in Fe-Si-C Alloy. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2008, 72, 1028-1035.	0.2	2
104	TEM observation of the restrained Gossâ€“Brass orientation transformation in a warm-rolled Feâ€“28Mnâ€“6Siâ€“5Cr shape memory alloy. Philosophical Magazine Letters, 2009, 89, 348-357.	0.5	2
105	Low-Cycle Fatigue Behavior and Microstructural Evolution of the Feâ€“30Mnâ€“4Siâ€“2Al Alloy. Materials Science Forum, 0, 783-786, 944-949.	0.3	2
106	Effect of carbon on the low-cycle fatigue resistance and microstructure of the Feâ€“15Mnâ€“10Crâ€“8Niâ€“4Si seismic damping alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 766, 138321.	2.6	2
107	Effects of Composition and Annealing on Shape Memory Behavior of Ti-rich Ti-Ni Thin Films Formed by Sputtering. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2000, 64, 62-66.	0.2	1
108	Isothermal fcc/hcp Transformation in Fe-Si-C-Alloy Thermally Treated at Lower Bainitic Transformation Temperature. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2008, 72, 1036-1043.	0.2	1

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109	Ti-Pd-Ni high temperature shape memory thin films formed with carousel type magnetron sputtering apparatus. European Physical Journal Special Topics, 2001, 11, Pr8-427-Pr8-432.	0.2	1
110	217 Development of an SMA/TWIP steel based on Fe-Mn-Si-Al. The Proceedings of the Materials and Processing Conference, 2006, 2006.14, 97-98.	0.0	0
111	Texture characteristics controlled by single slip plane slipping in the warm-rolled Fe-14Mn-5Si-9Cr-5Ni shape memory alloy. Journal of Materials Research, 2009, 24, 2097-2106.	1.2	0
112	Low-cycle fatigue properties of the Fe-30Mn-(6-x)Si-xAl TRIP/TWIP alloys. , 2013, , 665-671.		0
113	Improvement of low-cycle fatigue resistance of Co-Ni alloys by silicon addition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 703, 9-16.	2.6	0
114	Strain Ratio Effect on the Low Cycle Fatigue Behavior and Microstructure of High-Mn Austenitic Alloy Undergoing the Strain-Induced Îµ-Martensitic Transformation. Materials Science Forum, 2018, 941, 1065-1070.	0.3	0
115	Influence of Annealing Microstructure on the Low-cycle Fatigue Properties and Fatigue Microstructure of a Feâ€“15Mnâ€“10Crâ€“8Niâ€“4Si Seismic Damping Alloy. ISIJ International, 2021, , .	0.6	0
116	Ferrous Shape Memory Alloys. , 2022, , 214-222.		0
117	Study on Extremely-Low Cycle Fatigue of Fe-15Mn-10Cr-8Ni-4Si Alloy. Zairyo/Journal of the Society of Materials Science, Japan, 2021, 70, 751-757.	0.1	0
118	Shape memory behavior of Ti-rich Ti-Ni thin films formed by sputtering. European Physical Journal Special Topics, 2001, 11, Pr8-409-Pr8-414.	0.2	0
119	Transformation Dislocation of Fe-Ni-Mn Alloy. Materia Japan, 2006, 45, 846-846.	0.1	0
120	Role of Si on the shape memory property of Fe-Mn-Si-C based alloys. , 2009, , .		0
121	The Improvement of Shape Recovery Property through Training Treatment in an Fe-30Mn-5Si-1Al. , 0, , 583-586.		0
122	The Stress-Induced Reverse Martensitic Transformation in Fe-Mn-Si Shape Memory Alloys. , 0, , 153-157.		0
123	Roles of Îµ-martensite on Resistance to Crack Growth:. The Proceedings of Mechanical Engineering Congress Japan, 2016, 2016, G0300103.	0.0	0
124	Improvement of Shape Memory Effect by Optimizing Thermal and Mechanical <i>Î³</i> â†’ <i>Îµ</i> Martensitic Transformation by Hot Rolling. ISIJ International, 2022, 62, 328-334.	0.6	0