Hideki Hosoda

List of Publications by Year
in descending order

271	7,805	66234 42	60497 81
papers	citations	h-index	g-index

278	278	278	2374
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Martensitic transformation, shape memory effect and superelasticity of Tiâ€“Nb binary alloys. Acta Materialia, 2006, 54, 2419-2429.	3.8	811
2	Development and characterization of Ni-free Ti-base shape memory and superelastic alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 18-24.	2.6	333
3	Shape memory characteristics of Tiâ€“22Nbâ€“(2â€“8)Zr(at.%) biomedical alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 403, 334-339.	2.6	319
4	Mechanical Properties and Shape Memory Behavior of Ti-Nb Alloys. Materials Transactions, 2004, 45, 2443-2448.	0.4	314
5	Texture and shape memory behavior of Tiâ€“22Nbâ€“6Ta alloy. Acta Materialia, 2006, 54, 423-433.	3.8	245
6	Lattice modulation and superelasticity in oxygen-added Î²-Ti alloys. Acta Materialia, 2011, 59, 6208-6218.	3.8	223
7	Shape Memory Behavior of Ti–22Nb–(0.5–2.0)O(at%) Biomedical Alloys. Materials Transactions, 2005, 46, 852-857.	0.4	200
8	Shape memory properties of Tiâ€“Nbâ€“Mo biomedical alloys. Acta Materialia, 2010, 58, 4212-4223.	3.8	197
9	Shape memory behavior of Tiâ€“Ta and its potential as a high-temperature shape memory alloy. Acta Materialia, 2009, 57, 1068-1077.	3.8	189
10	Mechanical Properties of a Ti-Nb-Al Shape Memory Alloy. Materials Transactions, 2004, 45, 1077-1082.	0.4	182
11	Effect of Ta addition on shape memory behavior of Tiâ€“22Nb alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 417, 120-128.	2.6	174
12	Composition dependent crystallography ofÎ±â€³-martensite in Tiâ€“Nb-based Î²-titanium alloy. Philosophical Magazine, 2007, 87, 3325-3350.	0.7	155
13	Origin of {332} twinning in metastable Î²-Ti alloys. Acta Materialia, 2014, 64, 345-355.	3.8	143
14	Self-accommodation in Tiâ€“Nb shape memory alloys. Acta Materialia, 2009, 57, 4054-4064.	3.8	141
15	Mechanical Properties and Shape Memory Behavior of Ti-Mo-Ga Alloys. Materials Transactions, 2004, 45, 1090-1095.	0.4	131
16	Novel Ti-base superelastic alloys with large recovery strain and excellent biocompatibility. Acta Biomaterialia, 2015, 17, 56-67.	4.1	123
17	Cyclic deformation behavior of a Tiâ€“26 at.% Nb alloy. Acta Materialia, 2009, 57, 2461-2469.	3.8	103
18	Anomalous temperature dependence of the superelastic behavior of Tiâ€“Nbâ€“Mo alloys. Acta Materialia, 2011, 59, 1464-1473.	3.8	102

#	Article	IF	Citations
19	Relationship between Texture and Macroscopic Transformation Strain in Severely Cold-Rolled Ti-Nb-Al Superelastic Alloy. Materials Transactions, 2004, 45, 1083-1089.	0.4	95
20	Interfacial defects in Tiâ€“Nb shape memory alloys. Acta Materialia, 2008, 56, 3088-3097.	3.8	95
21	Effect of thermo-mechanical treatment on mechanical properties and shape memory behavior of Tiâ€“(26â€“28)at.% Nb alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 839-843.	2.6	94
22	Superelastic properties of biomedical (Tiâ€“Zr)â€“Moâ€“Sn alloys. Materials Science and Engineering C, 2015, 48, 11-20.	3.8	94
23	Material design and shape memory properties of smart composites composed of polymer and ferromagnetic shape memory alloy particles. Science and Technology of Advanced Materials, 2004, 5, 503-509.	2.8	88
24	Martensite transformation temperatures and mechanical properties of ternary NiTi alloys with offstoichiometric compositions. Intermetallics, 1998, 6, 291-301.	1.8	85
25	Anisotropy and Temperature Dependence of Young’s Modulus in Textured TiNbAl Biomedical Shape Memory Alloy. Materials Transactions, 2005, 46, 1597-1603.	0.4	78
26	Effect of Nb content and heat treatment temperature on superelastic properties of Tiâ€“24Zrâ€“(8â€“12)Nbâ€“2Sn alloys. Scripta Materialia, 2015, 95, 46-49.	2.6	78
27	Effect of Annealing Temperature on Microstructure and Shape Memory Characteristics of Ti–22Nb–6Zr(at%) Biomedical Alloy. Materials Transactions, 2006, 47, 505-512.	0.4	73
28	Texture of Tiâ€“Ni rolled thin plates and sputter-deposited thin films. International Journal of Plasticity, 2000, 16, 1135-1154.	4.1	69
29	Effect of Sn addition on stress hysteresis and superelastic properties of a Tiâ€“15Nbâ€“3Mo alloy. Scripta Materialia, 2014, 72-73, 29-32.	2.6	64
30	Mechanical properties of Tiâ€“Nb biomedical shape memory alloys containing Ge or Ga. Materials Science and Engineering C, 2005, 25, 426-432.	3.8	62
31	Effects of short time heat treatment on superelastic properties of a Tiâ€“Nbâ€“Al biomedical shape memory alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 870-874.	2.6	60
32	Mechanical Properties of Ti-Base Shape Memory Alloys. Materials Science Forum, 2003, 426-432, 3121-3126.	0.3	56
33	Mechanical Properties of Ti–50(Pt,Ir) High-Temperature Shape Memory Alloys. Materials Transactions, 2006, 47, 650-657.	0.4	56
34	Room temperature aging behavior of Tiâ€“Nbâ€“Mo-based superelastic alloys. Acta Materialia, 2012, 60, 2437-2447.	3.8	56
35	Effect of Nb content on deformation behavior and shape memory properties of Tiâ€“Nb alloys. Journal of Alloys and Compounds, 2013, 577, S435-S438.	2.8	54
36	Self-accommodation of B19â€² martensite in Tiâ€“Ni shape memory alloys. Part III. Analysis of habit plane variant clusters by the geometrically nonlinear theory. Philosophical Magazine, 2012, 92, 2247-2263.	0.7	52

#	Article	IF	Citations
37	Effect of {001}ã€ˆ110ã€‰ texture on superelastic strain of Tiâ€“Nbâ€“Al biomedical shape memory alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 865-869.	2.6	50
38	Effect of nitrogen addition and annealing temperature on superelastic properties of Tiâ€“Nbâ€“Zrâ€“Ta alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 6844-6852.	2.6	50
39	Antiphase boundary-like stacking fault in Î±â€³-martensite of disordered crystal structure in Î²-titanium shape memory alloy. Philosophical Magazine, 2010, 90, 3475-3498.	0.7	47
40	Potential of IrAl base alloys as ultrahigh-temperature smart coatings. Intermetallics, 2000, 8, 1081-1090.	1.8	46
41	Martensitic Transformation and Superelasticity of Ti-Nb-Pt Alloys. Materials Transactions, 2007, 48, 400-406.	0.4	45
42	Crystallographic orientation and stress-amplitude dependence of damping in the martensite phase in textured Tiâ€“Nbâ€“Al shape memory alloy. Acta Materialia, 2010, 58, 2535-2544.	3.8	44
43	Shape memory effect and pseudoelasticity of TiPt. Intermetallics, 2010, 18, 2275-2280.	1.8	44
44	Heating-induced martensitic transformation and time-dependent shape memory behavior of Tiâ€“Nbâ€“O alloy. Acta Materialia, 2014, 80, 317-326.	3.8	44
45	Role of oxygen atoms in Î±â€³ martensite of Ti-20 at.% Nb alloy. Scripta Materialia, 2016, 112, 15-18.	2.6	40
46	Effect of Boron Concentration on Martensitic Transformation Temperatures, Stress for Inducing Martensite and Slip Stress of Ti-24 mol%Nb-3 mol%Al Superelastic Alloy. Materials Transactions, 2007, 48, 407-413.	0.4	38
47	SHAPE MEMORY EFFECT AND CYCLIC DEFORMATION BEHAVIOR OF Tiâ€“Nbâ€“N ALLOYS. Functional Materials Letters, 2009, 02, 79-82.	0.7	37
48	Optimum rolling ratio for obtaining {001}<110 > recrystallization texture in Tiâ€“Nbâ€“Al biomedical shape memory alloy. Materials Science and Engineering C, 2016, 61, 499-505.	3.8	37
49	High-temperature mechanical and shape memory properties of TiPtâ€“Zr and TiPtâ€“Ru alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 564, 34-41.	2.6	36
50	Incompatibility and preferred morphology in the self-accommodation microstructure of Î²-titanium shape memory alloy. Philosophical Magazine, 2013, 93, 618-634.	0.7	36
51	Ti(Pt, Pd, Au) based High Temperature Shape Memory Alloys. Materials Today: Proceedings, 2015, 2, S517-S522.	0.9	35
52	Orthodontic Buccal Tooth Movement by Nickel-Free Titanium-Based Shape Memory and Superelastic Alloy Wire. Angle Orthodontist, 2006, 76, 1041-1046.	1.1	32
53	Wide-range temperature dependences of Brillouin scattering properties in polymer optical fiber. Japanese Journal of Applied Physics, 2014, 53, 042502.	0.8	32
54	Effect of Sn and Zr addition on the martensitic transformation behavior of Ti-Mo shape memory alloys. Journal of Alloys and Compounds, 2017, 695, 76-82.	2.8	32

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55	Phase Stability and Mechanical Properties of IrAl Alloys. Materials Transactions, JIM, 1997, 38, 871-878.	0.9	31
56	Plastic deformation behaviour of single-crystalline martensite of Ti-Nb shape memory alloy. Scientific Reports, 2017, 7, 15715.	1.6	31
57	Effects of Si addition on superelastic properties of Tiâ€“Nbâ€“Al biomedical shape memory alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 835-838.	2.6	29
58	Effect of Nitrogen Addition on Superelasticity of Ti-Zr-Nb Alloys. Materials Transactions, 2009, 50, 2726-2730.	0.4	28
59	Role of interstitial atoms in the microstructure and non-linear elastic deformation behavior of Tiâ€“Nb alloy. Journal of Alloys and Compounds, 2013, 577, S404-S407.	2.8	28
60	A comparative study on the effects of the Ï‰ and Î± phases on the temperature dependence of shape memory behavior of a Tiâ€“27Nb alloy. Scripta Materialia, 2015, 103, 37-40.	2.6	27
61	Phase Constitution and Mechanical Properties of Ti-(Cr, Mn)-Sn Biomedical Alloys. Materials Science Forum, 2010, 654-656, 2118-2121.	0.3	24
62	Effect of Sn and Zr content on superelastic properties of Ti-Mo-Sn-Zr biomedical alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 704, 72-76.	2.6	24
63	Effects of ternary additions on martensitic transformation of TiAu. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 383-386.	2.6	23
64	Tensile behavior of micro-sized specimen made of single crystalline nickel. Materials Letters, 2015, 153, 36-39.	1.3	23
65	Effects of hydrothermal treatment and pelletizing temperature on the mechanical properties of empty fruit bunch pellets. Applied Energy, 2019, 251, 113385.	5.1	23
66	Alloys Design of PdTi-Based Shape Memory Alloys Based on Defect Structures and Site Preference of Ternary Elements. Journal of Intelligent Material Systems and Structures, 1996, 7, 312-320.	1.4	22
67	Effect of Cu Addition on Shape Memory Behavior of Ti-18 mol%Nb Alloys. Materials Transactions, 2007, 48, 414-421.	0.4	22
68	<I>In Vitro</I> Biocompatibility of Ni-Free Ti-Based Shape Memory Alloys for Biomedical Applications. Materials Transactions, 2010, 51, 1944-1950.	0.4	22
69	Effect of microstructure on hydrogen pulverization of two phase alloys. Intermetallics, 1998, 6, 61-69.	1.8	21
70	Compressive mechanical properties of multi-phase alloys based on B2 CoAl and E21 Co3AlC. Intermetallics, 2000, 8, 749-757.	1.8	21
71	Vibration damping of Ni-Mn-Ga/silicone composites. Scripta Materialia, 2018, 146, 9-12.	2.6	21
72	Magnetic field-induced rubber-like behavior in Ni-Mn-Ga particles/polymer composite. Scientific Reports, 2019, 9, 3443.	1.6	21

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73	Î²åž‹ãƒã‚¿ãƒ³å½¢çŠ¶è¨˜æ†¶åˆé‡‘. Keikinzoku/Journal of Japan Institute of Light Metals, 2005, 55, 613-617.	0.1	20
74	Pseudoelastic Properties of Cold-Rolled TiNbAl Alloy. Materials Science Forum, 2005, 475-479, 2323-2328.	0.3	20
75	Ageing behavior of Tiâ€“6Crâ€“3Sn Î² titanium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 530, 504-510.	2.6	19
76	Martensitic Transformation of TiAu Shape Memory Alloys. Materials Science Forum, 0, 561-565, 1541-1544.	0.3	18
77	Phase Transformation and Shape Memory Effect of Ti(Pt, Ir). Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 2901-2911.	1.1	18
78	Effect of Annealing Temperature on Microstructure and Superelastic Properties of Ti-Au-Cr-Zr Alloy. Materials Transactions, 2015, 56, 404-409.	0.4	18
79	Effect of Cr additions on the phase constituent, mechanical properties, and shape memory effect of nearâ€“eutectoid Tiâ€“4Au towards the biomaterial applications. Journal of Alloys and Compounds, 2021, 867, 159037.	2.8	18
80	Improvement in room temperature ductility of intermetallic alloys through microstructural control. Intermetallics, 1996, 4, S171-S179.	1.8	17
81	Crystallography of Martensite in TiAu Shape Memory Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 111-120.	1.1	17
82	Effect of uniform distribution of Î± phase on mechanical, shape memory and pseudoelastic properties of Tiâ€“6Crâ€“3Sn alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 555, 28-35.	2.6	17
83	Mechanical Properties of Ti-Nb Biomedical Shape Memory Alloys Containing 13- and 14-Group Elements. Materials Science Forum, 2005, 475-479, 2329-2332.	0.3	16
84	Acoustic Study of Martensitic Phase Transformation in TiNbAl Shape Memory Alloy. Japanese Journal of Applied Physics, 2005, 44, 4322-4324.	0.8	16
85	X-ray Diffraction Analysis of Ti-18 mol%Nb Based Shape Memory Alloys Containing 3d Transition Metal Elements. Materials Transactions, 2006, 47, 1209-1213.	0.4	16
86	Comparative Study of Ti-<I>x</I>Cr-3Sn Alloys for Biomedical Applications. Materials Transactions, 2011, 52, 1787-1793.	0.4	16
87	Effect of 3d transition metal additions on the phase constituent, mechanical properties, and shape memory effect of nearâ€“eutectoid Tiâ€“4Au biomedical alloys. Journal of Alloys and Compounds, 2021, 857, 157599.	2.8	16
88	Hardness and Aging of Ni₂MnGa Ferromagnetic Shape Memory Alloys. Materials Transactions, 2002, 43, 852-855.	0.4	15
89	Formation process of the incompatible martensite microstructure in a beta-titanium shape memory alloy. Acta Materialia, 2017, 124, 351-359.	3.8	15
90	Microstructural Evolution in Î²â€Metastable Tiâ€“Moâ€“Snâ€“Al Alloy During Isothermal Aging. Advanced Engineering Materials, 2019, 21, 1900416.	1.6	15

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91	Large magnetostrains of Ni-Mn-Ga/silicone composite containing system of oriented 5M and 7M martensitic particles. Scripta Materialia, 2022, 207, 114265.	2.6	15
92	Prediction of Substitutional Behavior of Ternary Elements in B2 Type NiTi, CoTi, FeTi and NiAl. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1996, 60, 793-801.	0.2	15
93	Effect of Co addition on oxidation behavior of IrAl. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 352, 16-22.	2.6	14
94	Fabrication of Ti-Sn-Cr Shape Memory Alloy by PM Process and its Properties. Materials Science Forum, 0, 706-709, 1943-1947.	0.3	14
95	Effect of Î± phase precipitation on martensitic transformation and mechanical properties of metastable Î² Tiâ€“6Crâ€“3Sn biomedical alloy. Journal of Alloys and Compounds, 2013, 577, S427-S430.	2.8	14
96	Phase transformation, oxidation and shape memory properties of Tiâ€“50Auâ€“10Zr alloy for high temperature applications. Journal of Alloys and Compounds, 2014, 595, 200-205.	2.8	14
97	Tensile behavior of micro-sized specimen fabricated from nanocrystalline nickel film. Microelectronic Engineering, 2015, 141, 17-20.	1.1	14
98	Cold rolling of B2 intermetallics. Journal of Alloys and Compounds, 2000, 302, 266-273.	2.8	13
99	Characterization of phase transformations, long range order and thermal properties of Ni _{2} MnGa alloys. International Journal of Applied Electromagnetics and Mechanics, 2001, 12, 9-17.	0.3	13
100	Phase constitution of some intermetallics in continuous quaternary pillar phase diagrams. Journal of Phase Equilibria and Diffusion, 2001, 22, 394-399.	0.3	13
101	Phase Stability and Mechanical Properties of Ti-Ni Shape Memory Alloys Containing Platinum Group Metals. Materials Science Forum, 2003, 426-432, 2333-2338.	0.3	13
102	Effect of Nb Addition on Shape Memory Behavior of Ti–Mo–Ga Alloys. Materials Transactions, 2006, 47, 518-522.	0.4	13
103	Tailoring thermomechanical treatment of Ni-Fe-Ga melt-spun ribbons for elastocaloric applications. Journal of Materials Research and Technology, 2019, 8, 4540-4546.	2.6	13
104	Mechanical Properties of Co Alloys Based on a E21 Type CO3AlC Intermetallic Compound. Materials Research Society Symposia Proceedings, 1992, 288, 793.	0.1	12
105	Substitution Behavior of Additional Elements in the L1₂-Type Al₃Li Metastable Phase in Al-Li Alloys. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1994, 58, 865-871.	0.2	12
106	Hydrogen absorption of Nbâ€“Al alloy bulk specimens. Journal of Alloys and Compounds, 1998, 281, 268-274.	2.8	12
107	Cytocompatibility Evaluation of Ti-Ni and Ti-Mo-Al System Shape Memory Alloys. Materials Transactions, 2007, 48, 361-366.	0.4	12
108	Composition dependence of phase transformation behavior and shape memory effect of Ti(Pt, Ir). Journal of Alloys and Compounds, 2013, 577, S399-S403.	2.8	12

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109	Strengthening of Î² Tiâ€“6Crâ€“3Sn alloy through Î² grain refinement, Î± phase precipitation and resulting effects on shape memory properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 559, 829-835.	2.6	12
110	High-Temperature Shape Memory Alloys Based on Ti-Platinum Group Metals Compounds. Materials Science Forum, 0, 783-786, 2541-2545.	0.3	12
111	Aluminum matrix texture in Alâ€“Al₃Ti functionally graded materials analyzed by electron back-scattering diffraction. Japanese Journal of Applied Physics, 2016, 55, 01AG03.	0.8	12
112	Estimation of Defect Structure and Site Preference of Additional Elements in B2-Type Nial, Coal and Feal at Offstoichiometry. Materials Research Society Symposia Proceedings, 1994, 364, 437.	0.1	11
113	Effect of boron addition on transformation behavior and tensile properties of Tiâ€“Nbâ€“Al alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 830-834.	2.6	11
114	Crystal Growth of Cobalt Film Fabricated by Electrodeposition with Dense Carbon Dioxide. Journal of the Electrochemical Society, 2015, 162, D423-D426.	1.3	11
115	Compatibility at Junction Planes between Habit Plane Variants with Internal Twin in Ti-Ni-Pd Shape Memory Alloy. Materials Transactions, 2016, 57, 233-240.	0.4	11
116	Influence of the precipitates on the shape memory effect and superelasticity of the nearâ€“eutectoid Tiâ€“Auâ€“Fe alloy towards biomaterial applications. Intermetallics, 2021, 133, 107180.	1.8	11
117	Microstructure of Î±Â+Âî² dual phase formed from isothermal Î±â€³phase via novel decomposition pathway in metastable Î²-Ti alloy. Journal of Alloys and Compounds, 2021, 868, 159237.	2.8	11
118	Enhancement of the shape memory effect by the introductions of Cr and Sn into the Î²â€“Ti alloy towards the biomedical applications. Journal of Alloys and Compounds, 2021, 875, 160088.	2.8	11
119	Effects of Aging on Phase Constitution, Lattice Parameter and Mechanical Properties of Ti-4 mol%Au Near-Eutectoid Alloy. Materials Transactions, 2007, 48, 385-389.	0.4	10
120	Effect of Aging on Mechanical Properties of Ti-Mo-Al Biomedical Shape Memory Alloy. Materials Science Forum, 2010, 654-656, 2150-2153.	0.3	10
121	Development of ã€ˆ001ã€‰-fiber texture in cold-groove-rolled Ti-Mo-Al-Zr biomedical alloy. Materialia, 2018, 1, 52-61.	1.3	10
122	Effects of Cr and Sn additives on the martensitic transformation and deformation behavior of Ti-Cr-Sn biomedical shape memory alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 822, 141668.	2.6	10
123	Estimation of the Vacancy Properties in Ordered Ni₃Al Alloys by Cluster Variation Method. Materials Transactions, JIM, 1992, 33, 698-705.	0.9	9
124	The effect of hydrogen on the hardness of Feâˆ'Al alloys. Jom, 1997, 49, 56-59.	0.9	9
125	Effect of wet environment on hardness and yield stress of B2 Feâ€“Al alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1998, 258, 135-145.	2.6	9
126	Phase Transformation of B2-PtTi with Ir. Materials Science Forum, 2003, 426-432, 2267-2272.	0.3	9

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127	Diffusion Bonding of Co to TiAu High Temperature Shape Memory Alloy. Materials Transactions, 2008, 49, 1998-2005.	0.4	9
128	Compressive Fracture Behavior of Bi-added Ni₅₀Mn₂₈Ga₂₂ Ferromagnetic Shape Memory Alloys. Materials Research Society Symposia Proceedings, 2013, 1516, 139-144.	0.1	9
129	Comparison of Bond Order, Metal d Orbital Energy Level, Mechanical and Shape Memory Properties of Ti–Cr–Sn and Ti–Ag–Sn Alloys. Materials Transactions, 2013, 54, 566-573.	0.4	9
130	Compression response of Niâ€“Mnâ€“Ga/silicone composite and study of three-dimensional deformation of particles. Smart Materials and Structures, 2018, 27, 085024.	1.8	9
131	Elaboration of magnetostrain-active NiMnGa particles/polymer layered composites. Materials Letters, 2021, 289, 129427.	1.3	9
132	Enhancement of mechanical properties and shape memory effect of Tiâ€“Crâ€“based alloys via Au and Cu modifications. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 123, 104707.	1.5	9
133	Effects of Second Phases on the Pulverization of Nb₃Al-Base Alloys by Hydrogenation. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1997, 61, 1132-1138.	0.2	9
134	Shape Memory Behavior of NiMnGa/Epoxy Smart Composites. Materials Science Forum, 2005, 475-479, 2067-2070.	0.3	8
135	Damping Capacity of Ti-Nb-Al Shape Memory β-Titanium Alloy with {001}_β⟨110⟩_β Texture. Materials Transactions, 2007, 48, 395-399.	0.4	8
136	Orthodontic Tooth Movement in Rats Using Ni-Free Ti-Based Shape Memory Alloy Wire. Materials Transactions, 2007, 48, 367-372.	0.4	8
137	Phase Constituents of Ti-Cr-Au and Ti-Cr-Au-Zr Alloy Systems. Materials Science Forum, 2010, 654-656, 2122-2125.	0.3	8
138	Phase Constitution and Mechanical Property of Ti-Cr and Ti-Cr-Sn Alloys Containing 3D Transition Metal Elements. Advanced Materials Research, 0, 89-91, 307-312.	0.3	8
139	Cold Workability, Mechanical Properties, Pseoudoelastic and Shape Memory Response of Silver Added Ti-5Cr Alloys. Advanced Materials Research, 0, 409, 639-644.	0.3	8
140	Deformation Texture of Ti-26mol%Nb-3mol%Al Î²-Titanium Alloy. Materials Science Forum, 0, 706-709, 1899-1902.	0.3	8
141	Isothermal martensitic transformation behavior of Tiâ€“Nbâ€“O alloy. Materials Letters, 2019, 257, 126691.	1.3	8
142	Anisotropy of Young's Modulus in a Ti-Mo-Al-Zr Alloy with Goss Texture. Materials Transactions, 2016, 57, 1998-2001.	0.4	8
143	Change of Ms Temperatures and its Correlation to Atomic Configurations of Offstoichiometric NiTi-Cr and NiTi-Co Alloys. Materials Research Society Symposia Proceedings, 1996, 459, 287.	0.1	7
144	Potentials of Shape Memory Effect in (Pt, Ir)-50 at%Ti. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2005, 69, 634-642.	0.2	7

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145	Effect of Carbon Addition of Shape Memory Properties of TiNb Alloys. Materials Science Forum, 2010, 638-642, 2046-2051.	0.3	7
146	Effect of Cold-Rolling Rate on Texture in Ti-Mo-Al-Zr Shape Memory Alloy. Materials Science Forum, 0, 738-739, 262-266.	0.3	7
147	Magnetoelastic Anomalies Exhibited by Ni–Fe(Co)–Ga Polycrystalline Ferromagnetic Shape Memory Alloy. Materials Transactions, 2013, 54, 1535-1538.	0.4	7
148	Effect of Al and Cu Contents on Mechanical Properties of Au-Cu-Al Shape Memory Alloys. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2015, 80, 27-36.	0.2	7
149	Effect of Sn Content on Phase Constitution and Mechanical Properties of Ti-Cr-Sn Shape Memory Alloys. Materials Today: Proceedings, 2015, 2, S825-S828.	0.9	7
150	Preparation of Nb-Cr Alloy Powder by Hydrogenation. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1998, 62, 681-689.	0.2	7
151	Investigations of Effects of Intermetallic Compound on the Mechanical Properties and Shape Memory Effect of Tiâ€“Auâ€“Ta Biomaterials. Materials, 2021, 14, 5810.	1.3	7
152	Prediction of the Type of Defect Structures in Binary Off-stoichiometric Intermetallic Compounds by Pseudo-Ground State Analysis. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1994, 58, 483-487.	0.2	6
153	Cluster variation method approach to estimating vacancy properties in B2 type ordered NiAl and NiFeAl alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1995, 192-193, 930-935.	2.6	6
154	Phase Stability in Wear-Induced Supersaturated Al-Ti Solid Solution. Materials Science Forum, 2002, 396-402, 1467-1472.	0.3	6
155	Transformation Behavior of TiNiPt Thin Films Fabricated Using Melt Spinning Technique. Materials Research Society Symposia Proceedings, 2004, 842, 144.	0.1	6
156	Martensitic Transformation Behavior and Shape Memory Properties of Ti–Ni–Pt Melt-Spun Ribbons. Materials Transactions, 2006, 47, 540-545.	0.4	6
157	High-Temperature Shape Memory Effect of Ti-(Pt,Ir). Materials Science Forum, 2007, 539-543, 3273-3278.	0.3	6
158	Martensitic Transformation and Related Properties of AuTi-FeTi Pseudobinary Alloys. Advanced Materials Research, 0, 922, 25-30.	0.3	6
159	Impact Damping in NiMnGa/Polymer Composites. Materials Transactions, 2014, 55, 629-632.	0.4	6
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