Shuichi Miyazaki

List of Publications by Year
in descending order

315 papers	17,111 citations	12330 69 h-index	17105 122 g-index
319 all docs	319 docs citations	319 times ranked	5139 citing authors

#	Article	IF	Citations
1	Synthesis and Characterization of a Tiâ€“Zrâ€Based Alloy with Ultralow Young's Modulus and Excellent Biocompatibility. Advanced Engineering Materials, 2022, 24, .	3.5	3
2	Synthesis of nanotubular oxide on Tiâ€“24Zrâ€“10Nbâ€“2Sn as a drug-releasing system to prevent the growth of Staphylococcus aureus. Chemical Papers, 2021, 75, 2441-2450.	2.2	3
3	Effect of N addition on nano-domain structure and mechanical properties of a meta-stable Ti-Zr based alloy. Scripta Materialia, 2021, 203, 114068.	5.2	4
4	Effect of Zr Content on Phase Stability, Deformation Behavior, and Youngâ€™s Modulus in Tiâ€“Nbâ€“Zr Alloys. Materials, 2020, 13, 476.	2.9	52
5	Shape Memory Foil-Based Active Micro Damping for Portable Applications. , 2019, , .		3
6	Isothermal martensitic transformation behavior of Tiâ€“Nbâ€“O alloy. Materials Letters, 2019, 257, 126691.	2.6	8
7	Corrosion behavior, in vitro and in vivo biocompatibility of a newly developed Tiâ€“16Nbâ€“3Moâ€“1Sn superelastic alloy. Materials Science and Engineering C, 2019, 104, 109906.	7.3	6
8	Effect of Stoichiometry on Shape Memory Properties and Functional Stability of Tiâ€“Niâ€“Pd Alloys. Materials, 2019, 12, 798.	2.9	10
9	Stress induced martensitic transformation and shape memory effect in Zr-Nb-Sn alloys. Scripta Materialia, 2019, 162, 412-415.	5.2	22
10	Effect of heat treatment condition on microstructure and superelastic properties of Ti24Zr10Nb2Sn. Journal of Alloys and Compounds, 2019, 782, 893-898.	5.5	23
11	Martensitic Transformation Characteristics. , 2018, , 1-52.		1
12	Effect of Interstitial Alloying Elements on Shape Memory and Superelastic Properties. , 2018, , 83-109.		0
13	Thermomechanical Treatment and Microstructure Control. , 2018, , 111-145.		1
14	Unique Properties of Metastable Beta Ti Alloys Related to Martensitic Transformation. , 2018, , 147-180.		0
15	Biocompatibility of Superelastic Beta Ti Alloys. , 2018, , 181-191.		0
16	Fabrication and Characterization of Shape Memory Alloys. , 2018, , 193-205.		2
17	Shape Memory Effect and Superelasticity. , 2018, , 53-81.		5
18	Effect of Al addition on superelastic properties of Tiâ€“Zrâ€“Nb-based alloys. Functional Materials Letters, 2017, 10, 1740002.	1.2	6

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19	A novel method for fabrication of Ti24Zr10Nb2Sn alloy oxide nanotubes-chitosan nanocomposite films. Materials Letters, 2017, 205, 134-137.	2.6	2
20	Tensile test criterion of transformation-induced elasticity and plasticity alloys for load-displacement measurement. Journal of Alloys and Compounds, 2017, 711, 305-311.	5.5	0
21	My Experience with Tiâ€“Ni-Based and Ti-Based Shape Memory Alloys. Shape Memory and Superelasticity, 2017, 3, 279-314.	2.2	77
22	SMA foil-based elastocaloric cooling: from material behavior to device engineering. Journal Physics D: Applied Physics, 2017, 50, 424003.	2.8	89
23	Effect of annealing temperature on microstructure and superelastic properties of a Ti-18Zr-4.5Nb-3Sn-2Mo alloy. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 65, 716-723.	3.1	35
24	Acoustic Emission Study of Tiâ€“Ni Shape-Memory Alloy in Loadingâ€“Unloading. Springer Proceedings in Physics, 2017, , 155-162.	0.2	0
25	Several Issues in the Development of Tiâ€“Nb-Based Shape Memory Alloys. Shape Memory and Superelasticity, 2016, 2, 380-390.	2.2	46
26	Energy-efficient miniature-scale heat pumping based on shape memory alloys. Smart Materials and Structures, 2016, 25, 085037.	3.5	92
27	Enhancement of Shape Memory Properties through Precipitation Hardening in a Ti-Rich Ti-Ni-Pd High Temperature Shape Memory Alloy. Materials Transactions, 2016, 57, 241-249.	1.2	9
28	Effects of oxygen concentration and temperature on deformation behavior of Ti-Nb-Zr-Ta-O alloys. Scripta Materialia, 2016, 123, 55-58.	5.2	47
29	A Focus on Biomedical Shape Memory and Superelastic Alloys. Shape Memory and Superelasticity, 2016, 2, 2-2.	2.2	3
30	Role of oxygen atoms in Î±â€³ martensite of Ti-20 at.% Nb alloy. Scripta Materialia, 2016, 112, 15-18.	5.2	40
31	Precipitation Behavior of Thermo-Mechanically Treated Ti50Ni20Au20Cu10 High-Temperature Shape-Memory Alloy. Shape Memory and Superelasticity, 2016, 2, 29-36.	2.2	4
32	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.	7.3	37
33	Effect of Zr Addition on Mechanical and Shape Memory Properties of Ti-5Mo-3Sn Alloys. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2015, 80, 37-44.	0.4	2
34	Martensitic Transformation and Superelastic Properties of Ti-Nb Base Alloys. Materials Transactions, 2015, 56, 625-634.	1.2	97
35	Effect of Annealing Temperature on Microstructure and Superelastic Properties of Ti-Au-Cr-Zr Alloy. Materials Transactions, 2015, 56, 404-409.	1.2	18
36	The Effect of Aging Temperature on Morphology of Î± Phase in Ti-3Mo-6Sn-5Zr Shape Memory Alloy. Materials Today: Proceedings, 2015, 2, S817-S820.	1.8	1

#	Article	IF	Citations
37	Deformation Behavior of Ti-4Au-5Cr-8Zr Superelastic Alloy With or Without Containing Ti3Au Precipitates. Materials Today: Proceedings, 2015, 2, S821-S824.	1.8	5
38	Effect of Sn Content on Phase Constitution and Mechanical Properties of Ti-Cr-Sn Shape Memory Alloys. Materials Today: Proceedings, 2015, 2, S825-S828.	1.8	7
39	The Elastocaloric Effect in TiNi-based Foils. Materials Today: Proceedings, 2015, 2, S971-S974.	1.8	23
40	Formation Process of Triangular Morphology of Self-Accommodation Martensite in Ti-Nb-Al Shape Memory Alloy. MATEC Web of Conferences, 2015, 33, 06001.	0.2	0
41	A Review of TiNiPdCu Alloy System for High Temperature Shape Memory Applications. Shape Memory and Superelasticity, 2015, 1, 85-106.	2.2	13
42	Crystal Structure, Transformation Strain, and Superelastic Property of Tiâ€“Nbâ€“Zr and Tiâ€“Nbâ€“Ta Alloys. Shape Memory and Superelasticity, 2015, 1, 107-116.	2.2	131
43	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.	5.2	27
44	Novel Ti-base superelastic alloys with large recovery strain and excellent biocompatibility. Acta Biomaterialia, 2015, 17, 56-67.	8.3	123
45	Effect of B addition on the microstructure and superelastic properties of a Ti-26Nb alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 644, 85-89.	5.6	20
46	Effects of oxygen concentration and phase stability on nano-domain structure and thermal expansion behavior of Tiâ€“Nbâ€“Zrâ€“Taâ€“O alloys. Acta Materialia, 2015, 100, 313-322.	7.9	68
47	Superelastic properties of biomedical (Tiâ€“Zr)â€“Moâ€“Sn alloys. Materials Science and Engineering C, 2015, 48, 11-20.	7.3	94
48	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.	5.2	78
49	Effect of cold rolling ratio on the nanoscale precipitation behavior of TiNiPdCu based high temperature shape memory alloys. Journal of Alloys and Compounds, 2014, 599, 212-218.	5.5	7
50	The effect of Pd content on microstructure and shape-memory properties of Tiâ€“Niâ€“Pdâ€“Cu alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 602, 19-24.	5.6	15
51	Effect of Sn addition on stress hysteresis and superelastic properties of a Tiâ€“15Nbâ€“3Mo alloy. Scripta Materialia, 2014, 72-73, 29-32.	5.2	64
52	Heating-induced martensitic transformation and time-dependent shape memory behavior of Tiâ€“Nbâ€“O alloy. Acta Materialia, 2014, 80, 317-326.	7.9	44
53	Origin of {332} twinning in metastable Î²-Ti alloys. Acta Materialia, 2014, 64, 345-355.	7.9	143
54	Basic Research and Development of Shape Memory Alloys. Materia Japan, 2014, 53, 197-208.	0.1	1

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55	Competition between invariant habit plane and compatible junction plane in TiNb-based shape memory alloy. Journal of Alloys and Compounds, 2013, 577, S92-S95.	5.5	1
56	Microstructure and martensitic transformation behavior of crystallized Tiâ€“36Niâ€“7Sn (at%) alloy ribbons. Journal of Alloys and Compounds, 2013, 577, S195-S199.	5.5	4
57	Effect of Nb content on deformation behavior and shape memory properties of Tiâ€“Nb alloys. Journal of Alloys and Compounds, 2013, 577, S435-S438.	5.5	54
58	Martensitic transformation behavior of Tiâ€“Niâ€“Sn alloys. Journal of Alloys and Compounds, 2013, 577, S200-S204.	5.5	6
59	Nanodomain structure and its effect on abnormal thermal expansion behavior of a Tiâ€“23Nbâ€“2Zrâ€“0.7Taâ€“1.2O alloy. Acta Materialia, 2013, 61, 4874-4886.	7.9	102
60	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.	5.5	14
61	Effect of Cu addition on the high temperature shape memory properties of Ti50Ni25Pd25 alloy. Journal of Alloys and Compounds, 2013, 577, S383-S387.	5.5	22
62	Combined effects of work hardening and precipitation strengthening on the cyclic stability of TiNiPdCu-based high-temperature shape memory alloys. Acta Materialia, 2013, 61, 4797-4810.	7.9	28
63	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.	5.5	28
64	Incompatibility and preferred morphology in the self-accommodation microstructure of Î²-titanium shape memory alloy. Philosophical Magazine, 2013, 93, 618-634.	1.6	36
65	The strain rate sensitivity behavior in Ti based shape memory alloys. Transactions of the Materials Research Society of Japan, 2013, 38, 545-548.	0.2	1
66	212 The Microstructure and Mechanical Properties of Ti-Au-Ta and Ti-Au-Cr-Ta Biomedical Alloys. The Proceedings of the Materials and Processing Conference, 2013, 2013.21, _212-1_-_212-2_.	0.0	0
67	Martensitic transformation and superelastic properties of titanium alloys containing interstitial elements. Keikinzoku/Journal of Japan Institute of Light Metals, 2012, 62, 257-262.	0.4	4
68	Research and Development of Ti-Ni-base Shape Memory Alloys. Materia Japan, 2012, 51, 209-215.	0.1	1
69	Crystallization and martensitic transformation behavior of Tiâ€“Niâ€“Sn alloy ribbons. Intermetallics, 2012, 30, 51-56.	3.9	6
70	Formation of nanoscaled precipitates and their effects on the high-temperature shape-memory characteristics of a Ti50Ni15Pd25Cu10 alloy. Acta Materialia, 2012, 60, 5900-5913.	7.9	29
71	Room temperature aging behavior of Tiâ€“Nbâ€“Mo-based superelastic alloys. Acta Materialia, 2012, 60, 2437-2447.	7.9	56
72	Miniaturized shape memory alloy pumps for stepping microfluidic transport. Sensors and Actuators B: Chemical, 2012, 165, 157-163.	7.8	39

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73	Comparative Study of Ti-<I>x</I>Cr-3Sn Alloys for Biomedical Applications. Materials Transactions, 2011, 52, 1787-1793.	1.2	16
74	Modelling Residual Strains During Cycling of Tiâ€“Ni and Tiâ€“Niâ€“Cu Shape Memory Alloys in a Pseudoelastic Range of Behaviour Conditions. Strain, 2011, 47, e457.	2.4	4
75	Ageing behavior of Tiâ€“6Crâ€“3Sn Î² titanium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 530, 504-510.	5.6	19
76	Novel Î²-TiTaAl alloys with excellent cold workability and a stable high-temperature shape memory effect. Scripta Materialia, 2011, 64, 1114-1117.	5.2	80
77	Crystallization behavior and microstructure of Tiâ€“36Niâ€“7Sn (at.%) alloy ribbons. Scripta Materialia, 2011, 65, 611-614.	5.2	8
78	Microstructures and martensitic transformation behavior of Tiâ€“Niâ€“Sn alloys. Scripta Materialia, 2011, 65, 608-610.	5.2	15
79	Cold workability and shape memory properties of novel Tiâ€“Niâ€“Hfâ€“Nb high-temperature shape memory alloys. Scripta Materialia, 2011, 65, 846-849.	5.2	68
80	Lattice modulation and superelasticity in oxygen-added Î²-Ti alloys. Acta Materialia, 2011, 59, 6208-6218.	7.9	223
81	Anomalous temperature dependence of the superelastic behavior of Tiâ€“Nbâ€“Mo alloys. Acta Materialia, 2011, 59, 1464-1473.	7.9	102
82	Martensitic transformation and shape memory properties of Tiâ€“Taâ€“Sn high temperature shape memory alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 7238-7246.	5.6	73
83	Effect of Pd content on crystallization and shape memory properties of Tiâ€“Niâ€“Pd thin films. International Journal of Smart and Nano Materials, 2011, 2, 9-21.	4.2	11
84	Reply to â€˜On substructure in titanium alloy martensiteâ€™. Philosophical Magazine, 2011, 91, 2079-2080.	1.6	1
85	Transformation temperatures and shape memory characteristics of a Tiâ€“45Niâ€“5Cu(at %) alloy annealed by Joule heating. Physica Scripta, 2010, T139, 014068.	2.5	1
86	New Internalized Distraction Device for Craniofacial Plastic Surgery Using Ni-Free, Ti-Based Shape Memory Alloy. Journal of Craniofacial Surgery, 2010, 21, 1839-1842.	0.7	3
87	<I>In Vitro</I> Biocompatibility of Ni-Free Ti-Based Shape Memory Alloys for Biomedical Applications. Materials Transactions, 2010, 51, 1944-1950.	1.2	22
88	Effect of heat treatment temperature on the microstructure and actuation behavior of a Tiâ€“Niâ€“Cu thin film microactuator. Acta Materialia, 2010, 58, 6064-6071.	7.9	14
89	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.	5.6	50
90	Grain refinement of a rapidly solidified Tiâ€“30Niâ€“20Cu alloy by two-step annealing. Scripta Materialia, 2010, 63, 1001-1004.	5.2	5

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91	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.	7.9	44
92	Shape memory properties of Tiâ€“Nbâ€“Mo biomedical alloys. Acta Materialia, 2010, 58, 4212-4223.	7.9	197
93	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
94	Phase Constituents of Ti-Cr-Au and Ti-Cr-Au-Zr Alloy Systems. Materials Science Forum, 2010, 654-656, 2122-2125.	0.3	8
95	Effect of Carbon Addition of Shape Memory Properties of TiNb Alloys. Materials Science Forum, 2010, 638-642, 2046-2051.	0.3	7
96	Phase Constitution and Mechanical Properties of Ti-(Cr, Mn)-Sn Biomedical Alloys. Materials Science Forum, 2010, 654-656, 2118-2121.	0.3	24
97	Stress Amplitude Dependence of Internal Friction in TiNbAl Shape Memory Alloy. Materials Science Forum, 2010, 638-642, 2064-2067.	0.3	0
98	Effect of Nitrogen Addition on Mechanical Property of Ti-Cr-Sn Alloy. Materials Science Forum, 2010, 654-656, 2126-2129.	0.3	4
99	Effect of randomness on ferroelastic transitions: Disorder-induced hysteresis loop rounding in Ti-Nb-O martensitic alloy. Physical Review B, 2010, 82, .	3.2	48
100	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.	1.6	47
101	WEAR BEHAVIOR OF NITI THIN FILM AT MICRO-SCALE. International Journal of Modern Physics B, 2010, 24, 85-93.	2.0	7
102	Self-Accommodation Morphology in Ti-Nb-Al Shape Memory Alloy. Materials Science Forum, 2010, 654-656, 2154-2157.	0.3	5
103	Crystallization behavior of cold worked Tiâ€“30Niâ€“20Cu(at%) alloy ribbons. Intermetallics, 2010, 18, 1813-1817.	3.9	2
104	Mechanical stability of Si thin film deposited on a Tiâ€“50.3Ni(at%) alloy. Journal of Alloys and Compounds, 2010, 497, L13-L16.	5.5	6
105	Shape memory effect-induced crack closure in Si thin film deposited on a Tiâ€“50.3Ni (at%) alloy substrate. Journal of Alloys and Compounds, 2010, 507, L8-L12.	5.5	5
106	Macroscopic stressâ€“strain curve, local strain band behavior and the texture of NiTi thin sheets. Smart Materials and Structures, 2009, 18, 055003.	3.5	21
107	Effect of Annealing on Electronic Characteristics of HfSiON Films fabricated by Damascene Gate Process. ECS Transactions, 2009, 16, 521-526.	0.5	0
108	SHAPE MEMORY EFFECT AND CYCLIC DEFORMATION BEHAVIOR OF Tiâ€“Nbâ€“N ALLOYS. Functional Materials Letters, 2009, 02, 79-82.	1.2	37

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109	Self-accommodation in Tiâ€“Nb shape memory alloys. Acta Materialia, 2009, 57, 4054-4064.	7.9	141
110	Shape memory behavior and internal structure of Tiâ€“Niâ€“Cu shape memory alloy thin films and their application for microactuators. Acta Materialia, 2009, 57, 441-452.	7.9	53
111	Shape memory behavior of Tiâ€“Ta and its potential as a high-temperature shape memory alloy. Acta Materialia, 2009, 57, 1068-1077.	7.9	189
112	Crystallization process and shape memory properties of Tiâ€“Niâ€“Zr thin films. Acta Materialia, 2009, 57, 1920-1930.	7.9	34
113	Cyclic deformation behavior of a Tiâ€“26 at.% Nb alloy. Acta Materialia, 2009, 57, 2461-2469.	7.9	103
114	Effect of ternary alloying elements on the shape memory behavior of Tiâ€“Ta alloys. Acta Materialia, 2009, 57, 2509-2515.	7.9	117
115	Effect of Nb Content on Deformation Textures and Mechanical Properties of Ti-18Zr-Nb Biomedical Alloys. Materials Transactions, 2009, 50, 2721-2725.	1.2	12
116	Effect of Nitrogen Addition on Superelasticity of Ti-Zr-Nb Alloys. Materials Transactions, 2009, 50, 2726-2730.	1.2	28
117	Development of high temperature Ti-Ta shape memory alloys. , 2009, , .		7
118	High-strength superelastic Tiâ€“Ni microtubes fabricated by sputter deposition. Acta Materialia, 2008, 56, 2063-2072.	7.9	13
119	Interfacial defects in Tiâ€“Nb shape memory alloys. Acta Materialia, 2008, 56, 3088-3097.	7.9	95
120	EFFECT OF ANNEALING ON SHAPE MEMORY CHARACTERISTICS OF Ti-50.85at.%Ni ALLOY. Functional Materials Letters, 2008, 01, 209-213.	1.2	6
121	Effect of Zr Content on Shape Memory Characteristics and Workability of Ti-Ni-Zr Alloy. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2008, 72, 152-157.	0.4	5
122	Effect of Nb Content on Deformation Textures and Mechanical Properties of Ti-18Zr-Nb Biomedical Alloys. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2008, 72, 965-969.	0.4	4
123	Orthodontic Tooth Movement in Rats Using Ni-Free Ti-Based Shape Memory Alloy Wire. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2008, 72, 503-509.	0.4	0
124	Effect of Nitrogen Addition on Superelasticity of Ti-Zr-Nb Alloys. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2008, 72, 955-959.	0.4	4
125	Effect of Nb Content on Plastic Deformation Behavior and Deformation Textures of Ti-Nb-Zr-Ta-O Alloy. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2008, 72, 970-974.	0.4	6
126	1014 Mechanical Properties of Ti-Mo Based Shape Memory Alloys. The Proceedings of the JSME Annual Meeting, 2008, 2008.1, 41-42.	0.0	0

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127	1003 Ti-Ni Superelastic Microtubes Fabricated by Sputter-deposition Method. The Proceedings of the JSME Annual Meeting, 2008, 2008.1, 19-20.	0.0	0
128	1012 Effect of annealing temperature on the texture in wire of Ti-Nb-Al superelastic alloy. The Proceedings of the JSME Annual Meeting, 2008, 2008.1, 37-38.	0.0	0
129	Rolling Texture of Î±"-Phase in Ti-22mol%Nb-3mol%Al Biomedical Shape Memory Alloy. Materials Science Forum, 2007, 561-565, 1517-1520.	0.3	2
130	Effect of Rotation Speed on Transformation Behavior in Ti-48at%Ni Shape Memory Alloy Melt-Spun Ribbon. Materials Science Forum, 2007, 561-565, 1481-1484.	0.3	2
131	Cytocompatibility Evaluation of Ti-Ni and Ti-Mo-Al System Shape Memory Alloys. Materials Transactions, 2007, 48, 361-366.	1.2	12
132	Damping Capacity of Ti-Nb-Al Shape Memory β-Titanium Alloy with {001}_β⟨110⟩_β Texture. Materials Transactions, 2007, 48, 395-399.	1.2	8
133	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.	1.2	38
134	Effect of Cu Addition on Shape Memory Behavior of Ti-18 mol%Nb Alloys. Materials Transactions, 2007, 48, 414-421.	1.2	22
135	Orthodontic Tooth Movement in Rats Using Ni-Free Ti-Based Shape Memory Alloy Wire. Materials Transactions, 2007, 48, 367-372.	1.2	8
136	Martensitic Transformation and Superelasticity of Ti-Nb-Pt Alloys. Materials Transactions, 2007, 48, 400-406.	1.2	45
137	Composition dependent crystallography ofÎ±â€³-martensite in Tiâ€“Nb-based Î²-titanium alloy. Philosophical Magazine, 2007, 87, 3325-3350.	1.6	155
138	2107 Texture Formation of Ti-Nb-Al Shape Memory Alloys. The Proceedings of the JSME Annual Meeting, 2007, 2007.1, 151-152.	0.0	0
139	2108 Superelastic Behavior of AuTi-18Co Alloys. The Proceedings of the JSME Annual Meeting, 2007, 2007.1, 153-154.	0.0	0
140	Microstructures of Ti-48%Ni shape memory melt-spun ribbons. Transactions of Nonferrous Metals Society of China, 2006, 16, s92-s95.	4.2	6
141	Microactuators Using R-phase Transformation of Sputter-deposited Ti-47.3Ni Shape Memory Alloy Thin Films. Journal of Intelligent Material Systems and Structures, 2006, 17, 1049-1058.	2.5	36
142	Effect of Annealing Temperature on Microstructure and Shape Memory Characteristics of Ti–22Nb–6Zr(at%) Biomedical Alloy. Materials Transactions, 2006, 47, 505-512.	1.2	73
143	X-ray Diffraction Analysis of Ti-18 mol%Nb Based Shape Memory Alloys Containing 3d Transition Metal Elements. Materials Transactions, 2006, 47, 1209-1213.	1.2	16
144	Effect of Nb Addition on Shape Memory Behavior of Ti–Mo–Ga Alloys. Materials Transactions, 2006, 47, 518-522.	1.2	13

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145	Martensitic Transformation Behavior and Shape Memory Properties of Ti–Ni–Pt Melt-Spun Ribbons. Materials Transactions, 2006, 47, 540-545.	1.2	6
146	Texture and shape memory behavior of Tiâ€“22Nbâ€“6Ta alloy. Acta Materialia, 2006, 54, 423-433.	7.9	245
147	Martensitic transformation, shape memory effect and superelasticity of Tiâ€“Nb binary alloys. Acta Materialia, 2006, 54, 2419-2429.	7.9	811
148	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.	5.6	29
149	Alloying process of sputter-deposited Ti/Ni multilayer thin films. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 699-702.	5.6	32
150	Deformation-induced martensite stabilisation in [100] single-crystalline Niâ€“Ti. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 612-616.	5.6	39
151	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.	5.6	94
152	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.	5.6	60
153	Effect of ageing on the transformation behaviour of Tiâ€“49.5at.% Ni. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 617-621.	5.6	30
154	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.	5.6	174
155	Effects of ternary additions on martensitic transformation of TiAu. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 383-386.	5.6	23
156	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.	5.6	333
157	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.	5.6	11
158	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.	5.6	50
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