

Shuichi Miyazaki

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ext. papers

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#	Paper	IF	Citations
306	Martensitic transformation, shape memory effect and superelasticity of Ti-Nb binary alloys. <i>Acta Materialia</i> , 2006 , 54, 2419-2429	8.4	689
305	Effect of cyclic deformation on the pseudoelasticity characteristics of Ti-Ni alloys. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1986 , 17, 115-120		506
304	Shape-memory materials and hybrid composites for smart systems: Part I Shape-memory materials. <i>Journal of Materials Science</i> , 1998 , 33, 3743-3762	4.3	418
303	Transformation pseudoelasticity and deformation behavior in a Ti-50.6at%Ni alloy. <i>Scripta Metallurgica</i> , 1981 , 15, 287-292		396
302	Development of shape memory alloys.. <i>ISIJ International</i> , 1989 , 29, 353-377	1.7	388
301	Effect of thermal cycling on the transformation temperatures of Ti-Ni alloys. <i>Acta Metallurgica</i> , 1986 , 34, 2045-2051		366
300	Deformation and transition behavior associated with the R-phase in Ti-Ni alloys. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1986 , 17, 53-63		362
299	Crystal structure of the martensite in Ti-49.2 at.%Ni alloy analyzed by the single crystal X-ray diffraction method. <i>Acta Metallurgica</i> , 1985 , 33, 2049-2056		341
298	Martensitic transformation and shape memory behavior in sputter-deposited Ti-Ni-base thin films. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 273-275, 106-133	5.3	340
297	Shape memory characteristics of Ti ₂ Nb ₂ Zr(at.%) biomedical alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 403, 334-339	5.3	284
296	Development and characterization of Ni-free Ti-base shape memory and superelastic alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 438-440, 18-24	5.3	283
295	Mechanical Properties and Shape Memory Behavior of Ti-Nb Alloys. <i>Materials Transactions</i> , 2004 , 45, 2443-2448	1.3	268
294	Texture and shape memory behavior of Ti ₂ Nb-Ta alloy. <i>Acta Materialia</i> , 2006 , 54, 423-433	8.4	221
293	Effect of specimen thickness on mechanical properties of polycrystalline aggregates with various grain sizes. <i>Acta Metallurgica</i> , 1979 , 27, 855-862		209
292	Shape memory materials and hybrid composites for smart systems: Part II Shape-memory hybrid composites. <i>Journal of Materials Science</i> , 1998 , 33, 3763-3783	4.3	196
291	The shape memory mechanism associated with the martensitic transformation in Ti-Ni alloys I Self-accommodation. <i>Acta Metallurgica</i> , 1989 , 37, 1873-1884		196
290	Lattice modulation and superelasticity in oxygen-added Ti alloys. <i>Acta Materialia</i> , 2011 , 59, 6208-6218	8.4	187

289	Crystallography of martensitic transformation in Ti?Ni single crystals. <i>Acta Metallurgica</i> , 1987 , 35, 2137-2144		187
288	Fatigue life of Ti?0 at.% Ni and Ti?0Ni?0Cu (at.%) shape memory alloy wires. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 273-275, 658-663	5.3	184
287	Shape Memory Behavior of Ti?2Nb?(0.5?2.0)O(at%) Biomedical Alloys. <i>Materials Transactions</i> , 2005 , 46, 852-857	1.3	180
286	Mechanism of the As Temperature Increase by Pre-deformation in Thermoelastic Alloys. <i>Materials Transactions, JIM</i> , 1993 , 34, 919-929		179
285	Mechanical Properties of a Ti-Nb-Al Shape Memory Alloy. <i>Materials Transactions</i> , 2004 , 45, 1077-1082	1.3	166
284	Ageing-induced two-stage R-phase transformation in Ti ?50.9at.%Ni. <i>Acta Materialia</i> , 2004 , 52, 487-499	8.4	165
283	Shape memory behavior of Ti?Ta and its potential as a high-temperature shape memory alloy. <i>Acta Materialia</i> , 2009 , 57, 1068-1077	8.4	162
282	Shape memory properties of Ti?Nb?Mo biomedical alloys. <i>Acta Materialia</i> , 2010 , 58, 4212-4223	8.4	161
281	The R-phase transition and associated shape memory mechanism in Ti-Ni single crystals. <i>Acta Metallurgica</i> , 1988 , 36, 181-192		153
280	Effect of Ta addition on shape memory behavior of Ti?2Nb alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 417, 120-128	5.3	151
279	The habit plane and transformation strains associated with the martensitic transformation in Ti-Ni single crystals. <i>Scripta Metallurgica</i> , 1984 , 18, 883-888		142
278	Effect of nano-scaled precipitates on shape memory behavior of Ti-50.9at.%Ni alloy. <i>Acta Materialia</i> , 2005 , 53, 4545-4554	8.4	138
277	Composition dependent crystallography of ?-martensite in Ti?Nb-based Titanium alloy. <i>Philosophical Magazine</i> , 2007 , 87, 3325-3350	1.6	127
276	Cyclic stress-strain characteristics of Ti?Ni and Ti?Ni?Cu shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995 , 202, 148-156	5.3	119
275	Effect of mechanical cycling on the pseudoelasticity characteristics of Ti?Ni and Ti?Ni?Cu alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995 , 203, 187-196	5.3	118
274	Mechanical Properties and Shape Memory Behavior of Ti-Mo-Ga Alloys. <i>Materials Transactions</i> , 2004 , 45, 1090-1095	1.3	115
273	Shape memory thin film of Ti?Ni formed by sputtering. <i>Thin Solid Films</i> , 1993 , 228, 210-214	2.2	112
272	Self-accommodation in Ti?Nb shape memory alloys. <i>Acta Materialia</i> , 2009 , 57, 4054-4064	8.4	111

271	Origin of {3 3 2} twinning in metastable β Ti alloys. <i>Acta Materialia</i> , 2014 , 64, 345-355	8.4	109
270	Effects of Nb Addition on the Microstructure of Ti-Ni Alloys. <i>Materials Transactions, JIM</i> , 1992 , 33, 337-345		109
269	SMA microgripper with integrated antagonism. <i>Sensors and Actuators A: Physical</i> , 2000 , 83, 208-213	3.9	107
268	Shape-memory effect and pseudoelasticity associated with the R-phase transition in Ti-50 β at.% Ni single crystals. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1988 , 57, 467-478		105
267	Effect of ternary alloying elements on the shape memory behavior of Ti-Ni alloys. <i>Acta Materialia</i> , 2009 , 57, 2509-2515	8.4	104
266	Mechanical behaviour associated with the premartensitic rhombohedral-phase transition in a Ti ₅₀ Ni ₄₇ Fe ₃ alloy. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1985 , 50, 393-408		100
265	Orientation dependence of $\beta \rightarrow \alpha'$ stress-induced martensitic transformation in a Cu-Al-Ni alloy. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1988 , 19, 915-923		94
264	Crystal Structure, Transformation Strain, and Superelastic Property of Ti-Nb-Zr and Ti-Nb-Ta Alloys. <i>Shape Memory and Superelasticity</i> , 2015 , 1, 107-116	2.8	91
263	Relationship between Texture and Macroscopic Transformation Strain in Severely Cold-Rolled Ti-Nb-Al Superelastic Alloy. <i>Materials Transactions</i> , 2004 , 45, 1083-1089	1.3	91
262	Layers-like deformation observed in the transformation pseudoelasticity of a Ti-Ni alloy. <i>Scripta Metallurgica</i> , 1981 , 15, 853-856		90
261	Novel Ti-base superelastic alloys with large recovery strain and excellent biocompatibility. <i>Acta Biomaterialia</i> , 2015 , 17, 56-67	10.8	89
260	Nanodomain structure and its effect on abnormal thermal expansion behavior of a Ti ₂₃ Nb ₂ Zr _{0.7} Ta _{1.2} O alloy. <i>Acta Materialia</i> , 2013 , 61, 4874-4886	8.4	87
259	Cyclic deformation behavior of a Ti ₂₆ at.% Nb alloy. <i>Acta Materialia</i> , 2009 , 57, 2461-2469	8.4	87
258	Effect of thermo-mechanical treatment on mechanical properties and shape memory behavior of Ti ₍₂₆₋₂₈₎ at.% Nb alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 438-440, 839-843	5.3	87
257	Anomalous temperature dependence of the superelastic behavior of Ti-Nb-Mo alloys. <i>Acta Materialia</i> , 2011 , 59, 1464-1473	8.4	86
256	Strengthening of Ti-Ni shape-memory films by coherent subnanometric plate precipitates. <i>Philosophical Magazine Letters</i> , 1996 , 74, 137-144	1	81
255	The shape memory mechanism associated with the martensitic transformation in Ti-Ni alloys. Variant coalescence and shape recovery. <i>Acta Metallurgica</i> , 1989 , 37, 1885-1890		80
254	Interfacial defects in Ti-Nb shape memory alloys. <i>Acta Materialia</i> , 2008 , 56, 3088-3097	8.4	77

253	Superelastic properties of biomedical (Ti-Zr)-Mo-Sn alloys. <i>Materials Science and Engineering C</i> , 2015 , 48, 11-20	8.3	72
252	Martensitic Transformation and Superelastic Properties of Ti-Nb Base Alloys. <i>Materials Transactions</i> , 2015 , 56, 625-634	1.3	72
251	Anisotropy and Temperature Dependence of Young's Modulus in Textured TiNbAl Biomedical Shape Memory Alloy. <i>Materials Transactions</i> , 2005 , 46, 1597-1603	1.3	71
250	Shape memory microvalves based on thin films or rolled sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 273-275, 784-788	5.3	71
249	Novel TiTaAl alloys with excellent cold workability and a stable high-temperature shape memory effect. <i>Scripta Materialia</i> , 2011 , 64, 1114-1117	5.6	67
248	Effect of Heat Treatment on Shape Memory Behavior of Ti-rich Ti-Ni Thin Films. <i>Materials Transactions, JIM</i> , 1995 , 36, 1349-1355		67
247	Energy-efficient miniature-scale heat pumping based on shape memory alloys. <i>Smart Materials and Structures</i> , 2016 , 25, 085037	3.4	66
246	Microstructure of Ti-48.2 at. Pct Ni shape memory thin films. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1997 , 28, 1985-1991	2.3	65
245	Effect of Annealing Temperature on Microstructure and Shape Memory Characteristics of Ti-22Nb-6Zr(at%) Biomedical Alloy. <i>Materials Transactions</i> , 2006 , 47, 505-512	1.3	64
244	Characteristics of Deformation and Transformation in Ti ₄₄ Ni ₄₇ Nb ₉ Shape Memory Alloy. <i>Materials Transactions, JIM</i> , 1992 , 33, 346-353		64
243	On the origin of intergranular fracture in β -phase shape memory alloys. <i>Scripta Metallurgica</i> , 1982 , 16, 431-436		63
242	CHARACTERISTICS OF DEFORMATION AND TRANSFORMATION PSEUDOELASTICITY IN Ti-Ni ALLOYS. <i>Journal De Physique Colloque</i> , 1982 , 43, C4-255-C4-260		63
241	Effect of Nb content and heat treatment temperature on superelastic properties of Ti ₄₂ Zr ₍₈₋₁₂₎ Nb ₂ Sn alloys. <i>Scripta Materialia</i> , 2015 , 95, 46-49	5.6	61
240	Martensitic transformation and shape memory properties of Ti ₄₈ Nb high temperature shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 7238-7246	5.3	61
239	Texture of TiNi rolled thin plates and sputter-deposited thin films. <i>International Journal of Plasticity</i> , 2000 , 16, 1135-1154	7.6	61
238	Corrosion and Biocompatibility of Shape Memory Alloys. <i>Zairyo To Kankyo/Corrosion Engineering</i> , 1991 , 40, 834-844	0.5	60
237	Development of stress-optimised shape memory microvalves. <i>Sensors and Actuators A: Physical</i> , 1999 , 72, 243-250	3.9	59
236	Cold workability and shape memory properties of novel Ti ₄₈ Ni ₄₇ Nb high-temperature shape memory alloys. <i>Scripta Materialia</i> , 2011 , 65, 846-849	5.6	58

235	Intrinsic thermal-mechanical behaviour associated with the stress-induced martensitic transformation in NiTi. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1993 , 167, 51-56	5.3	58
234	Experimental investigation and thermodynamic calculation of the Ti-Ni-Cu shape memory alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2000 , 31, 2423-2430	2.3	57
233	Mechanical Properties of Ti-Base Shape Memory Alloys. <i>Materials Science Forum</i> , 2003 , 426-432, 3121-3124	2.4	56
232	Dislocation deformation in polycrystalline iron. <i>Acta Metallurgica</i> , 1978 , 26, 1273-1281		56
231	Effects of short time heat treatment on superelastic properties of a Ti-Nb-Al biomedical shape memory alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 438-440, 870-874	5.3	55
230	Mechanical properties of Ti-Nb biomedical shape memory alloys containing Ge or Ga. <i>Materials Science and Engineering C</i> , 2005 , 25, 426-432	8.3	55
229	Shape memory effect and pseudoelasticity in a Ti-Ni single crystal. <i>Scripta Metallurgica</i> , 1983 , 17, 1057-1062		55
228	Effects of oxygen concentration and phase stability on nano-domain structure and thermal expansion behavior of Ti-Nb-Ta alloys. <i>Acta Materialia</i> , 2015 , 100, 313-322	8.4	54
227	SMA foil-based elastocaloric cooling: from material behavior to device engineering. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 424003	3	51
226	A TiNiPd thin film microvalve for high temperature applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 378, 205-209	5.3	51
225	Effect of specimen size on the flow stress of rod specimens of polycrystalline Cu-Al alloy. <i>Scripta Metallurgica</i> , 1979 , 13, 447-449		51
224	Shape Memory Characteristics of Sputter-Deposited Ti-Ni Thin Films. <i>Materials Transactions, JIM</i> , 1994 , 35, 14-19		50
223	Effect of Sn addition on stress hysteresis and superelastic properties of a Ti-5Nb-Mo alloy. <i>Scripta Materialia</i> , 2014 , 72-73, 29-32	5.6	49
222	Shape memory behavior and internal structure of Ti-Ni-Cu shape memory alloy thin films and their application for microactuators. <i>Acta Materialia</i> , 2009 , 57, 441-452	8.4	48
221	Effect of {001}<110> texture on superelastic strain of Ti-Nb-Al biomedical shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 438-440, 865-869	5.3	48
220	Effect of aging on shape memory behavior of Ti-51.3 At. pct ni thin films. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1996 , 27, 3753-3759	2.3	48
219	Effect of nitrogen addition and annealing temperature on superelastic properties of Ti-Nb-Ta alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 6844-6852	5.3	47
218	Room temperature aging behavior of Ti-Nb-Mo-based superelastic alloys. <i>Acta Materialia</i> , 2012 , 60, 2437-2447	8.4	46

217	Stress-induced martensitic transformation in a Ti-Ni single crystal. <i>Scripta Metallurgica</i> , 1983 , 17, 987-992		45
216	Antiphase boundary-like stacking fault in β -martensite of disordered crystal structure in Titanium shape memory alloy. <i>Philosophical Magazine</i> , 2010 , 90, 3475-3498	1.6	44
215	Stress-strain curves of sputter-deposited Ti-Ni thin films. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2000 , 80, 967-980		44
214	Mechanical properties of TiNi shape memory thin films formed by sputtering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 273-275, 754-757	5.3	44
213	My Experience with TiNi-Based and Ti-Based Shape Memory Alloys. <i>Shape Memory and Superelasticity</i> , 2017 , 3, 279-314	2.8	43
212	Potential of IrAl base alloys as ultrahigh-temperature smart coatings. <i>Intermetallics</i> , 2000 , 8, 1081-1090	3.5	43
211	Effect of randomness on ferroelastic transitions: Disorder-induced hysteresis loop rounding in Ti-Nb-O martensitic alloy. <i>Physical Review B</i> , 2010 , 82,	3.3	41
210	Martensitic Transformation and Superelasticity of Ti-Nb-Pt Alloys. <i>Materials Transactions</i> , 2007 , 48, 400-406		41
209	Strain dependence of pseudoelastic hysteresis of NiTi. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1999 , 30, 1275-1282	2.3	41
208	Changes in contact angles as a function of time on some pre-oxidized biomaterials. <i>Journal of Materials Science: Materials in Medicine</i> , 1992 , 3, 306-312	4.5	41
207	Effect of Nb content on deformation behavior and shape memory properties of TiNb alloys. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S435-S438	5.7	40
206	Thermodynamic analysis of ageing-induced multiple-stage transformation behaviour of NiTi. <i>Philosophical Magazine</i> , 2004 , 84, 2083-2102	1.6	40
205	Stress-induced FCC \leftrightarrow HCP martensitic transformation in CoNi. <i>Journal of Alloys and Compounds</i> , 2004 , 368, 157-163	5.7	39
204	Formation of nanocrystals with an identical orientation in sputter-deposited Ti Ni thin films. <i>Philosophical Magazine Letters</i> , 1996 , 74, 395-404	1	38
203	Fabrication and characterization of TiNi shape memory thin film using Ti/Ni multilayer technique. <i>Science and Technology of Advanced Materials</i> , 2005 , 6, 678-683	7.1	37
202	Crystallographic orientation and stress-amplitude dependence of damping in the martensite phase in textured TiNbAl shape memory alloy. <i>Acta Materialia</i> , 2010 , 58, 2535-2544	8.4	36
201	Deformation-induced martensite stabilisation in [100] single-crystalline NiTi. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 438-440, 612-616	5.3	35
200	Analysis of the thermomechanical behavior of TiNi shape memory alloy thin films by bulging and nanoindentation procedures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 273-275, 727-732	5.3	35

199	SHAPE MEMORY EFFECT AND CYCLIC DEFORMATION BEHAVIOR OF TiNbNi ALLOYS. <i>Functional Materials Letters</i> , 2009 , 02, 79-82	1.2	34
198	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. <i>Materials Transactions</i> , 2007 , 48, 407-413	1.3	34
197	Effects of Several Factors on the Ductility of the Ti-Ni Alloy. <i>Materials Science Forum</i> , 1991 , 56-58, 765-770	1.4	34
196	Heating-induced martensitic transformation and time-dependent shape memory behavior of TiNbTi alloy. <i>Acta Materialia</i> , 2014 , 80, 317-326	8.4	33
195	Crystal Structure of γ' Martensite in Au-47.5 at%Cd Alloy. <i>Materials Transactions, JIM</i> , 1990 , 31, 12-17		33
194	Miniaturized shape memory alloy pumps for stepping microfluidic transport. <i>Sensors and Actuators B: Chemical</i> , 2012 , 165, 157-163	8.5	32
193	Microactuators Using R-phase Transformation of Sputter-deposited Ti-47.3Ni Shape Memory Alloy Thin Films. <i>Journal of Intelligent Material Systems and Structures</i> , 2006 , 17, 1049-1058	2.3	31
192	Several Issues in the Development of TiNb-Based Shape Memory Alloys. <i>Shape Memory and Superelasticity</i> , 2016 , 2, 380-390	2.8	31
191	Effects of oxygen concentration and temperature on deformation behavior of Ti-Nb-Zr-Ta-O alloys. <i>Scripta Materialia</i> , 2016 , 123, 55-58	5.6	30
190	Role of oxygen atoms in β' martensite of Ti-20 at.% Nb alloy. <i>Scripta Materialia</i> , 2016 , 112, 15-18	5.6	30
189	Incompatibility and preferred morphology in the self-accommodation microstructure of Titanium shape memory alloy. <i>Philosophical Magazine</i> , 2013 , 93, 618-634	1.6	30
188	Deformation behaviour associated with the stress-induced martensitic transformation in TiNi thin films and their thermodynamical modelling. <i>Thin Solid Films</i> , 1998 , 324, 184-189	2.2	30
187	Two-way shape memory effect of sputter-deposited thin films of Ti 51.3 at.% Ni. <i>Thin Solid Films</i> , 1998 , 315, 305-309	2.2	29
186	Alloying process of sputter-deposited Ti/Ni multilayer thin films. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 438-440, 699-702	5.3	29
185	Thermodynamic modeling of the recovery strains of sputter-deposited shape memory alloys TiNi and TiNiCu thin films. <i>Thin Solid Films</i> , 2000 , 372, 118-133	2.2	29
184	Crystallization process and shape memory properties of TiNiZr thin films. <i>Acta Materialia</i> , 2009 , 57, 1920-1930	8.4	28
183	Orthodontic buccal tooth movement by nickel-free titanium-based shape memory and superelastic alloy wire. <i>Angle Orthodontist</i> , 2006 , 76, 1041-6	2.6	28
182	Effect of ageing on the transformation behaviour of Ti49.5at.% Ni. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 438-440, 617-621	5.3	28

181	Microstructure and Mechanical Properties of Sputter-Deposited Ti-Ni Alloy Thin Films. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 1999 , 121, 2-8	1.8	26
180	Effect of annealing temperature on microstructure and superelastic properties of a Ti-18Zr-4.5Nb-3Sn-2Mo alloy. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 65, 716-723	4.1	25
179	Formation of nanoscaled precipitates and their effects on the high-temperature shape-memory characteristics of a Ti50Ni15Pd25Cu10 alloy. <i>Acta Materialia</i> , 2012 , 60, 5900-5913	8.4	25
178	Effects of Si addition on superelastic properties of TiNbAl biomedical shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 438-440, 835-838	5.3	25
177	High strength TiNi-based shape memory thin films. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 273-275, 745-748	5.3	25
176	Effects of shot-peening on surface contact angles of biomaterials. <i>Journal of Materials Science: Materials in Medicine</i> , 1993 , 4, 443-447	4.5	25
175	Effect of Zr Content on Phase Stability, Deformation Behavior, and Young's Modulus in Ti-Nb-Zr Alloys. <i>Materials</i> , 2020 , 13,	3.5	24
174	Combined effects of work hardening and precipitation strengthening on the cyclic stability of TiNiPdCu-based high-temperature shape memory alloys. <i>Acta Materialia</i> , 2013 , 61, 4797-4810	8.4	24
173	Effect of Nitrogen Addition on Superelasticity of Ti-Zr-Nb Alloys. <i>Materials Transactions</i> , 2009 , 50, 2726-2730	2.3	24
172	Optimum rolling ratio for obtaining {001} recrystallization texture in Ti-Nb-Al biomedical shape memory alloy. <i>Materials Science and Engineering C</i> , 2016 , 61, 499-505	8.3	23
171	Role of interstitial atoms in the microstructure and non-linear elastic deformation behavior of TiNb alloy. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S404-S407	5.7	23
170	Phase Constitution and Mechanical Properties of Ti-(Cr, Mn)-Sn Biomedical Alloys. <i>Materials Science Forum</i> , 2010 , 654-656, 2118-2121	0.4	23
169	Effects of ternary additions on martensitic transformation of TiAu. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 438-440, 383-386	5.3	21
168	Effect of Cu addition on the high temperature shape memory properties of Ti50Ni25Pd25 alloy. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S383-S387	5.7	20
167	In Vitro Biocompatibility of Ni-Free Ti-Based Shape Memory Alloys for Biomedical Applications. <i>Materials Transactions</i> , 2010 , 51, 1944-1950	1.3	20
166	Pseudoelastic Properties of Cold-Rolled TiNbAl Alloy. <i>Materials Science Forum</i> , 2005 , 475-479, 2323-2328	0.4	20
165	?????????. <i>Keikinzoque/Journal of Japan Institute of Light Metals</i> , 2005 , 55, 613-617	0.3	20
164	Ti-content and annealing temperature dependence of deformation characteristics of TiXNi(92X)Cu8 shape memory alloys. <i>Acta Materialia</i> , 1998 , 46, 2729-2740	8.4	19

163	A comparative study on the effects of the β and β' phases on the temperature dependence of shape memory behavior of a Ti ₂₇ Nb alloy. <i>Scripta Materialia</i> , 2015 , 103, 37-40	5.6	18
162	The Elastocaloric Effect in TiNi-based Foils. <i>Materials Today: Proceedings</i> , 2015 , 2, S971-S974	1.4	18
161	Macroscopic stress-strain curve, local strain band behavior and the texture of NiTi thin sheets. <i>Smart Materials and Structures</i> , 2009 , 18, 055003	3.4	18
160	Effect of Cu Addition on Shape Memory Behavior of Ti-18 mol%Nb Alloys. <i>Materials Transactions</i> , 2007 , 48, 414-421	1.3	18
159	Crystal structure of orthorhombic martensite in TiNi-Cu and TiNi-Pd intermetallics. <i>European Physical Journal Special Topics</i> , 2003 , 112, 727-730		18
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