Shuichi Miyazaki

List of Publications by Year in Descending Order

306 papers	14,748 citations	63 h-index	114 g-index
319 ext. papers	15,745 ext. citations	3.4 avg, IF	6.45 L-index

#	Paper	IF	Citations
306	Synthesis of nanotubular oxide on Ti24Zr10Nb2Sn as a drug-releasing system to prevent the growth of Staphylococcus aureus. *Chemical Papers*, **2021**, 75, 2441-2450	1.9	2
305	Effect of N addition on nano-domain structure and mechanical properties of a meta-stable Ti-Zr based alloy. *Scripta Materialia*, **2021**, 203, 114068	5.6	1
304	Effect of Zr Content on Phase Stability, Deformation Behavior, and Young's Modulus in Ti-Nb-Zr Alloys. *Materials*, **2020**, 13,	3.5	24
303	Isothermal martensitic transformation behavior of TiNb alloy. *Materials Letters*, **2019**, 257, 126691	3.3	3
302	Corrosion behavior, in vitro and in vivo biocompatibility of a newly developed Ti-16Nb-3Mo-1Sn superelastic alloy. *Materials Science and Engineering C*, **2019**, 104, 109906	8.3	3
301	Effect of Stoichiometry on Shape Memory Properties and Functional Stability of Ti?Ni?Pd Alloys. *Materials*, **2019**, 12,	3.5	7
300	Stress induced martensitic transformation and shape memory effect in Zr-Nb-Sn alloys. *Scripta Materialia*, **2019**, 162, 412-415	5.6	11
299	Effect of heat treatment condition on microstructure and superelastic properties of Ti24Zr10Nb2Sn. *Journal of Alloys and Compounds*, **2019**, 782, 893-898	5.7	18
298	Martensitic Transformation Characteristics **2018**, 1-52		1
297	Effect of Interstitial Alloying Elements on Shape Memory and Superelastic Properties **2018**, 83-109		
296	Thermomechanical Treatment and Microstructure Control **2018**, 111-145		0
295	Unique Properties of Metastable Beta Ti Alloys Related to Martensitic Transformation **2018**, 147-180		
294	Biocompatibility of Superelastic Beta Ti Alloys **2018**, 181-191		
293	Fabrication and Characterization of Shape Memory Alloys **2018**, 193-205		1
292	Shape Memory Effect and Superelasticity **2018**, 53-81		3
291	Effect of Al addition on superelastic properties of TiZrNb-based alloys. *Functional Materials Letters*, **2017**, 10, 1740002	1.2	4
290	A novel method for fabrication of Ti24Zr10Nb2Sn alloy oxide nanotubes-chitosan nanocomposite films. *Materials Letters*, **2017**, 205, 134-137	3.3	2

289	Tensile test criterion of transformation-induced elasticity and plasticity alloys for load-displacement measurement. *Journal of Alloys and Compounds*, **2017**, 711, 305-311	5.7	
288	My Experience with TiNi-Based and Ti-Based Shape Memory Alloys. *Shape Memory and Superelasticity*, **2017**, 3, 279-314	2.8	43
287	SMA foil-based elastocaloric cooling: from material behavior to device engineering. *Journal Physics D: Applied Physics*, **2017**, 50, 424003	3	51
286	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	4.1	25
285	Acoustic Emission Study of TiNi Shape-Memory Alloy in LoadingUnloading. *Springer Proceedings in Physics*, **2017**, 155-162	0.2	
284	Role of Interstitial Oxygen Atom on Martensitic Transformation of Ti-Nb Alloy. *Advances in Science and Technology*, **2016**, 97, 115-118	0.1	
283	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	1.3	5
282	Effects of oxygen concentration and temperature on deformation behavior of Ti-Nb-Zr-Ta-O alloys. *Scripta Materialia*, **2016**, 123, 55-58	5.6	30
281	Role of oxygen atoms in martensite of Ti-20 at.% Nb alloy. *Scripta Materialia*, **2016**, 112, 15-18	5.6	30
280	Precipitation Behavior of Thermo-Mechanically Treated Ti50Ni20Au20Cu10 High-Temperature Shape-Memory Alloy. *Shape Memory and Superelasticity*, **2016**, 2, 29-36	2.8	3
279	Optimum rolling ratio for obtaining {001} recrystallization texture in Ti-Nb-Al biomedical shape memory alloy. *Materials Science and Engineering C*, **2016**, 61, 499-505	8.3	23
278	Martensitic Transformation Behavior of Oxygen-Added Ti-20at.% Nb ALLOY **2016**, 1007-1009		
277	Shape Memory Behavior of Ti-Au-Cr Biomedical Alloy **2016**, 1695-1698		
276	Several Issues in the Development of TiNb-Based Shape Memory Alloys. *Shape Memory and Superelasticity*, **2016**, 2, 380-390	2.8	31
275	Energy-efficient miniature-scale heat pumping based on shape memory alloys. *Smart Materials and Structures*, **2016**, 25, 085037	3.4	66
274	Crystal Structure, Transformation Strain, and Superelastic Property of TiNbZr and TiNbTa Alloys. *Shape Memory and Superelasticity*, **2015**, 1, 107-116	2.8	91
273	A comparative study on the effects of the and phases on the temperature dependence of shape memory behavior of a Ti27Nb alloy. *Scripta Materialia*, **2015**, 103, 37-40	5.6	18
272	Novel Ti-base superelastic alloys with large recovery strain and excellent biocompatibility. *Acta Biomaterialia*, **2015**, 17, 56-67	10.8	89

271	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	5.3	14
270	Effects of oxygen concentration and phase stability on nano-domain structure and thermal expansion behavior of Ti□Nb□Zr□Ta□ alloys. *Acta Materialia*, **2015**, 100, 313-322	8.4	54
269	Superelastic properties of biomedical (Ti-Zr)-Mo-Sn alloys. *Materials Science and Engineering C*, **2015**, 48, 11-20	8.3	72
268	Effect of Nb content and heat treatment temperature on superelastic properties of Ti□4Zr□(3□12)Nb□Sn alloys. *Scripta Materialia*, **2015**, 95, 46-49	5.6	61
267	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
266	Martensitic Transformation and Superelastic Properties of Ti-Nb Base Alloys. *Materials Transactions*, **2015**, 56, 625-634	1.3	72
265	Effect of Annealing Temperature on Microstructure and Superelastic Properties of Ti-Au-Cr-Zr Alloy. *Materials Transactions*, **2015**, 56, 404-409	1.3	17
264	The Effect of Aging Temperature on Morphology of □Phase in Ti-3Mo-6Sn-5Zr Shape Memory Alloy. *Materials Today: Proceedings*, **2015**, 2, S817-S820	1.4	1
263	Deformation Behavior of Ti-4Au-5Cr-8Zr Superelastic Alloy With or Without Containing Ti3Au Precipitates. *Materials Today: Proceedings*, **2015**, 2, S821-S824	1.4	4
262	Effect of Sn Content on Phase Constitution and Mechanical Properties of Ti-Cr-Sn Shape Memory Alloys. *Materials Today: Proceedings*, **2015**, 2, S825-S828	1.4	6
261	The Elastocaloric Effect in TiNi-based Foils. *Materials Today: Proceedings*, **2015**, 2, S971-S974	1.4	18
260	Formation Process of Triangular Morphology of Self-Accommodation Martensite in Ti-Nb-Al Shape Memory Alloy. *MATEC Web of Conferences*, **2015**, 33, 06001	0.3	
259	A Review of TiNiPdCu Alloy System for High Temperature Shape Memory Applications. *Shape Memory and Superelasticity*, **2015**, 1, 85-106	2.8	8
258	Heating-induced martensitic transformation and time-dependent shape memory behavior of Ti□Nb□ alloy. *Acta Materialia*, **2014**, 80, 317-326	8.4	33
257	Origin of {3 3 2} twinning in metastable □Ti alloys. *Acta Materialia*, **2014**, 64, 345-355	8.4	109
256	Basic Research and Development of Shape Memory Alloys. *Materia Japan*, **2014**, 53, 197-208	0.1	1
255	Effect of Heat Treatment Condition on Texture in Ti-Mo-Al-Zr Shape Memory Alloy. *Advanced Materials Research*, **2014**, 922, 622-625	0.5	3
254	Effect of Zr Addition on Martensitic Transformation in TiMoSn Alloy. *Advanced Materials Research*, **2014**, 922, 137-142	0.5	5

253	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	5.7	7
252	The effect of Pd content on microstructure and shape-memory properties of TiNiPdCu alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2014**, 602, 19-24	5.3	12
251	Effect of Sn addition on stress hysteresis and superelastic properties of a Ti15Nb3Mo alloy. *Scripta Materialia*, **2014**, 72-73, 29-32	5.6	49
250	Competition between invariant habit plane and compatible junction plane in TiNb-based shape memory alloy. *Journal of Alloys and Compounds*, **2013**, 577, S92-S95	5.7	1
249	Microstructure and martensitic transformation behavior of crystallized Ti36Ni7Sn (at%) alloy ribbons. *Journal of Alloys and Compounds*, **2013**, 577, S195-S199	5.7	4
248	Effect of Nb content on deformation behavior and shape memory properties of TiNb alloys. *Journal of Alloys and Compounds*, **2013**, 577, S435-S438	5.7	40
247	Martensitic transformation behavior of TiNiSn alloys. *Journal of Alloys and Compounds*, **2013**, 577, S200-S204	5.7	6
246	Nanodomain structure and its effect on abnormal thermal expansion behavior of a Ti23Nb2Zr0.7Ta1.2O alloy. *Acta Materialia*, **2013**, 61, 4874-4886	8.4	87
245	Effect of phase precipitation on martensitic transformation and mechanical properties of metastable TiCrSn biomedical alloy. *Journal of Alloys and Compounds*, **2013**, 577, S427-S430	5.7	11
244	Effect of Cu addition on the high temperature shape memory properties of Ti50Ni25Pd25 alloy. *Journal of Alloys and Compounds*, **2013**, 577, S383-S387	5.7	20
243	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	8.4	24
242	Role of interstitial atoms in the microstructure and non-linear elastic deformation behavior of TiNb alloy. *Journal of Alloys and Compounds*, **2013**, 577, S404-S407	5.7	23
241	Effect of Cold-Rolling Rate on Texture in Ti-Mo-Al-Zr Shape Memory Alloy. *Materials Science Forum*, **2013**, 738-739, 262-266	0.4	6
240	Incompatibility and preferred morphology in the self-accommodation microstructure of titanium shape memory alloy. *Philosophical Magazine*, **2013**, 93, 618-634	1.6	30
239	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
238	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	
237	Miniaturized shape memory alloy pumps for stepping microfluidic transport. *Sensors and Actuators B: Chemical*, **2012**, 165, 157-163	8.5	32
236	Crystallization and martensitic transformation behavior of TiNiSn alloy ribbons. *Intermetallics*, **2012**, 30, 51-56	3.5	5

235	Formation of nanoscaled precipitates and their effects on the high-temperature shape-memory characteristics of a Ti50Ni15Pd25Cu10 alloy. *Acta Materialia*, **2012**, 60, 5900-5913	8.4	25
234	Room temperature aging behavior of TiNbMo-based superelastic alloys. *Acta Materialia*, **2012**, 60, 2437-2447	8.4	46
233	Effect of Ageing on Mechanical and Shape Memory Properties of Ti-5Cr-4Ag Alloy. *Key Engineering Materials*, **2012**, 510-511, 111-117	0.4	3
232	Deformation Texture of Ti-26mol%Nb-3mol%Al Titanium Alloy. *Materials Science Forum*, **2012**, 706-709, 1899-1902	0.4	6
231	Stability of Ti-Ta Base High Temperature Shape Memory Alloys. *Materials Science Forum*, **2012**, 706-709, 1921-1924	0.4	1
230	Composition Dependence of Compatibility in Self-Accommodation Microstructure of Titanium Shape Memory Alloy. *Advances in Science and Technology*, **2012**, 78, 25-30	0.1	1
229	Martensitic transformation and superelastic properties of titanium alloys containing interstitial elements. *Keikinzoku/Journal of Japan Institute of Light Metals*, **2012**, 62, 257-262	0.3	3
228	Research and Development of Ti-Ni-base Shape Memory Alloys. *Materia Japan*, **2012**, 51, 209-215	0.1	1
227	Comparative Study of Ti-xCr-3Sn Alloys for Biomedical Applications. *Materials Transactions*, **2011**, 52, 1787-1793	1.3	15
226	Modelling Residual Strains During Cycling of TiNi and TiNiCu Shape Memory Alloys in a Pseudoelastic Range of Behaviour Conditions. *Strain*, **2011**, 47, e457-e466	1.7	3
225	Ageing behavior of Ti3Cr3Sn titanium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 530, 504-510	5.3	16
224	Novel TiTaAl alloys with excellent cold workability and a stable high-temperature shape memory effect. *Scripta Materialia*, **2011**, 64, 1114-1117	5.6	67
223	Crystallization behavior and microstructure of Ti36Ni7Sn (at.%) alloy ribbons. *Scripta Materialia*, **2011**, 65, 611-614	5.6	8
222	Microstructures and martensitic transformation behavior of TiNiSn alloys. *Scripta Materialia*, **2011**, 65, 608-610	5.6	14
221	Cold workability and shape memory properties of novel TiNiHfNb high-temperature shape memory alloys. *Scripta Materialia*, **2011**, 65, 846-849	5.6	58
220	Lattice modulation and superelasticity in oxygen-added Ti alloys. *Acta Materialia*, **2011**, 59, 6208-6218	8.4	187
219	Anomalous temperature dependence of the superelastic behavior of TiNbMo alloys. *Acta Materialia*, **2011**, 59, 1464-1473	8.4	86
218	Martensitic transformation and shape memory properties of TiTaSn high temperature shape memory alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 528, 7238-7246	5.3	61

217	Effect of Pd content on crystallization and shape memory properties of TiNiPd thin films. *International Journal of Smart and Nano Materials*, **2011**, 2, 9-21	3.6	10
216	Cold Workability, Mechanical Properties, Pseoudoelastic and Shape Memory Response of Silver Added Ti-5Cr Alloys. *Advanced Materials Research*, **2011**, 409, 639-644	0.5	7
215	Reply to On substructure in titanium alloy martensite *Philosophical Magazine*, **2011**, 91, 2079-2080	1.6	0
214	Effect of Aging on Mechanical Properties of Ti-Mo-Al Biomedical Shape Memory Alloy. *Materials Science Forum*, **2010**, 654-656, 2150-2153	0.4	7
213	Phase Constituents of Ti-Cr-Au and Ti-Cr-Au-Zr Alloy Systems. *Materials Science Forum*, **2010**, 654-656, 2122-2125	0.4	5
212	Effect of Carbon Addition of Shape Memory Properties of TiNb Alloys. *Materials Science Forum*, **2010**, 638-642, 2046-2051	0.4	6
211	Phase Constitution and Mechanical Properties of Ti-(Cr, Mn)-Sn Biomedical Alloys. *Materials Science Forum*, **2010**, 654-656, 2118-2121	0.4	23
210	Phase Constitution and Mechanical Property of Ti-Cr and Ti-Cr-Sn Alloys Containing 3D Transition Metal Elements. *Advanced Materials Research*, **2010**, 89-91, 307-312	0.5	6
209	Stress Amplitude Dependence of Internal Friction in TiNbAl Shape Memory Alloy. *Materials Science Forum*, **2010**, 638-642, 2064-2067	0.4	
208	Effect of Nitrogen Addition on Mechanical Property of Ti-Cr-Sn Alloy. *Materials Science Forum*, **2010** , 654-656, 2126-2129	0.4	4
207	Effect of randomness on ferroelastic transitions: Disorder-induced hysteresis loop rounding in Ti-Nb-O martensitic alloy. *Physical Review B*, **2010**, 82,	3.3	41
206	Antiphase boundary-like stacking fault in martensite of disordered crystal structure in titanium shape memory alloy. *Philosophical Magazine*, **2010**, 90, 3475-3498	1.6	44
205	WEAR BEHAVIOR OF NITI THIN FILM AT MICRO-SCALE. *International Journal of Modern Physics B*, **2010**, 24, 85-93	1.1	6
204	Self-Accommodation Morphology in Ti-Nb-Al Shape Memory Alloy. *Materials Science Forum*, **2010**, 654-656, 2154-2157	0.4	4
203	Crystallization behavior of cold worked Ti50Ni20Cu(at%) alloy ribbons. *Intermetallics*, **2010**, 18, 1813-1817	3.5	2
202	Mechanical stability of Si thin film deposited on a Ti50.3Ni(at%) alloy. *Journal of Alloys and Compounds*, **2010**, 497, L13-L16	5.7	6
201	Shape memory effect-induced crack closure in Si thin film deposited on a Ti50.3Ni (at%) alloy substrate. *Journal of Alloys and Compounds*, **2010**, 507, L8-L12	5.7	5
200	Transformation temperatures and shape memory characteristics of a Ti45Ni5Cu(at %) alloy annealed by Joule heating. *Physica Scripta*, **2010**, T139, 014068	2.6	1

199	New internalized distraction device for craniofacial plastic surgery using Ni-free, Ti-based shape memory alloy. *Journal of Craniofacial Surgery*, **2010**, 21, 1839-42	1.2	3
198	In Vitro Biocompatibility of Ni-Free Ti-Based Shape Memory Alloys for Biomedical Applications. *Materials Transactions*, **2010**, 51, 1944-1950	1.3	20
197	Effect of heat treatment temperature on the microstructure and actuation behavior of a TiNiCu thin film microactuator. *Acta Materialia*, **2010**, 58, 6064-6071	8.4	13
196	Effect of nitrogen addition and annealing temperature on superelastic properties of TiNbZrTa alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 527, 6844-6852	5.3	47
195	Grain refinement of a rapidly solidified Ti30Ni20Cu alloy by two-step annealing. *Scripta Materialia* , **2010**, 63, 1001-1004	5.6	5
194	Crystallographic orientation and stress-amplitude dependence of damping in the martensite phase in textured TiNbAl shape memory alloy. *Acta Materialia*, **2010**, 58, 2535-2544	8.4	36
193	Shape memory properties of TiNbMo biomedical alloys. *Acta Materialia*, **2010**, 58, 4212-4223	8.4	161
192	Macroscopic stress–strain curve, local strain band behavior and the texture of NiTi thin sheets. *Smart Materials and Structures*, **2009**, 18, 055003	3.4	18
191	SHAPE MEMORY EFFECT AND CYCLIC DEFORMATION BEHAVIOR OF TiNbN ALLOYS. *Functional Materials Letters*, **2009**, 02, 79-82	1.2	34
190	Self-accommodation in TiNb shape memory alloys. *Acta Materialia*, **2009**, 57, 4054-4064	8.4	111
189	Shape memory behavior and internal structure of TiNiCu shape memory alloy thin films and their application for microactuators. *Acta Materialia*, **2009**, 57, 441-452	8.4	48
188	Shape memory behavior of TiTa and its potential as a high-temperature shape memory alloy. *Acta Materialia*, **2009**, 57, 1068-1077	8.4	162
187	Crystallization process and shape memory properties of TiNiZr thin films. *Acta Materialia*, **2009**, 57, 1920-1930	8.4	28
186	Cyclic deformation behavior of a Ti–26 at.% Nb alloy. *Acta Materialia*, **2009**, 57, 2461-2469	8.4	87
185	Effect of ternary alloying elements on the shape memory behavior of TiTa alloys. *Acta Materialia*, **2009**, 57, 2509-2515	8.4	104
184	Effect of Nb Content on Deformation Textures and Mechanical Properties of Ti-18Zr-Nb Biomedical Alloys. *Materials Transactions*, **2009**, 50, 2721-2725	1.3	11
183	Effect of Nitrogen Addition on Superelasticity of Ti-Zr-Nb Alloys. *Materials Transactions*, **2009**, 50, 2726-2730	1.3	24
182	Development of high temperature Ti-Ta shape memory alloys **2009**,		6

181	EFFECT OF ANNEALING ON SHAPE MEMORY CHARACTERISTICS OF Ti-50.85at.%Ni ALLOY. *Functional Materials Letters*, **2008**, 01, 209-213	1.2	6
180	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
179	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
178	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	
177	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	3
176	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	5
175	High-strength superelastic TiNi microtubes fabricated by sputter deposition. *Acta Materialia*, **2008**, 56, 2063-2072	8.4	10
174	Interfacial defects in TiNb shape memory alloys. *Acta Materialia*, **2008**, 56, 3088-3097	8.4	77
173	1014 Mechanical Properties of Ti-Mo Based Shape Memory Alloys. *The Proceedings of the JSME Annual Meeting*, **2008**, 2008.1, 41-42		
172	1003 Ti-Ni Superelastic Microtubes Fabricated by Sputter-deposition Method. *The Proceedings of the JSME Annual Meeting*, **2008**, 2008.1, 19-20		
171	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		
170	Rolling Texture of β-Phase in Ti-22mol%Nb-3mol%Al Biomedical Shape Memory Alloy. *Materials Science Forum*, **2007**, 561-565, 1517-1520	0.4	2
169	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	0.4	2
168	Cytocompatibility Evaluation of Ti-Ni and Ti-Mo-Al System Shape Memory Alloys. *Materials Transactions*, **2007**, 48, 361-366	1.3	9
167	Damping Capacity of Ti-Nb-Al Shape Memory β-Titanium Alloy with {001}β⟨110⟩β Texture. *Materials Transactions*, **2007**, 48, 395-399	1.3	7
166	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	1.3	34
165	Effect of Cu Addition on Shape Memory Behavior of Ti-18 mol%Nb Alloys. *Materials Transactions*, **2007**, 48, 414-421	1.3	18
164	Orthodontic Tooth Movement in Rats Using Ni-Free Ti-Based Shape Memory Alloy Wire. *Materials Transactions*, **2007**, 48, 367-372	1.3	5

163	Martensitic Transformation and Superelasticity of Ti-Nb-Pt Alloys. *Materials Transactions*, **2007**, 48, 400-406	1.6	41
162	Composition dependent crystallography of α″-martensite in Ti-Nb-based titanium alloy. *Philosophical Magazine*, **2007**, 87, 3325-3350	1.6	127
161	TiNi-Base and Ti-Base Shape Memory Alloys. *Materials Science Forum*, **2007**, 561-565, 5-21	0.4	13
160	2107 Texture Formation of Ti-Nb-Al Shape Memory Alloys. *The Proceedings of the JSME Annual Meeting*, **2007**, 2007.1, 151-152		
159	2108 Superelastic Behavior of AuTi-18Co Alloys. *The Proceedings of the JSME Annual Meeting*, **2007**, 2007.1, 153-154		
158	Orthodontic buccal tooth movement by nickel-free titanium-based shape memory and superelastic alloy wire. *Angle Orthodontist*, **2006**, 76, 1041-6	2.6	28
157	Effect of Ti3Si on Texture in Ti-Nb Based Shape Memory Alloys. *Materials Research Society Symposia Proceedings*, **2006**, 980, 50		1
156	Microstructures of Ti-48%Ni shape memory melt-spun ribbons. *Transactions of Nonferrous Metals Society of China*, **2006**, 16, s92-s95	3.3	5
155	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	2.3	31
154	Effect of Annealing Temperature on Microstructure and Shape Memory Characteristics of Ti–22Nb–6Zr(at%) Biomedical Alloy. *Materials Transactions*, **2006**, 47, 505-512	1.3	64
153	X-ray Diffraction Analysis of Ti-18 mol%Nb Based Shape Memory Alloys Containing 3d Transition Metal Elements. *Materials Transactions*, **2006**, 47, 1209-1213	1.3	15
152	Effect of Nb Addition on Shape Memory Behavior of Ti–Mo–Ga Alloys. *Materials Transactions*, **2006**, 47, 518-522	1.3	12
151	Martensitic Transformation Behavior and Shape Memory Properties of Ti–Ni–Pt Melt-Spun Ribbons. *Materials Transactions*, **2006**, 47, 540-545	1.3	6
150	Texture and shape memory behavior of Ti-22Nb-3Ta alloy. *Acta Materialia*, **2006**, 54, 423-433	8.4	221
149	Martensitic transformation, shape memory effect and superelasticity of Ti-Nb binary alloys. *Acta Materialia*, **2006**, 54, 2419-2429	8.4	689
148	Effects of Si addition on superelastic properties of Ti-Nb-Al biomedical shape memory alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 438-440, 835-838	5.3	25
147	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	5.3	29
146	Deformation-induced martensite stabilisation in [100] single-crystalline Ni-Ti. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 438-440, 612-616	5.3	35

145	Effect of thermo-mechanical treatment on mechanical properties and shape memory behavior of Ti(26?28) at.% Nb alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 438-440, 839-843	5.3	87
144	Effects of short time heat treatment on superelastic properties of a TiNbAl biomedical shape memory alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 438-440, 870-874	5.3	55
143	Effect of ageing on the transformation behaviour of Ti?49.5at.% Ni. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 438-440, 617-621	5.3	28
142	Effect of Ta addition on shape memory behavior of Ti?22Nb alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 417, 120-128	5.3	151
141	Effects of ternary additions on martensitic transformation of TiAu. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 438-440, 383-386	5.3	21
140	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	5.3	283
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List of Publications

1 Antiphase Boundary Like Defect Inside α″-Martensite in Ti-Nb-Al Shape Memory Alloy335-340