

Hideki Hosoda

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269
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ext. citations

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avg, IF

5.74
L-index

#	Paper	IF	Citations
269	Martensitic transformation, shape memory effect and superelasticity of TiNb binary alloys. <i>Acta Materialia</i> , 2006 , 54, 2419-2429	8.4	689
268	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
267	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
266	Mechanical Properties and Shape Memory Behavior of Ti-Nb Alloys. <i>Materials Transactions</i> , 2004 , 45, 2443-2448	1.3	268
265	Texture and shape memory behavior of Ti ₂ NbTa alloy. <i>Acta Materialia</i> , 2006 , 54, 423-433	8.4	221
264	Lattice modulation and superelasticity in oxygen-added Ti alloys. <i>Acta Materialia</i> , 2011 , 59, 6208-6218	8.4	187
263	Shape Memory Behavior of Ti-22Nb-(0.5-2.0)O(at%) Biomedical Alloys. <i>Materials Transactions</i> , 2005 , 46, 852-857	1.3	180
262	Mechanical Properties of a Ti-Nb-Al Shape Memory Alloy. <i>Materials Transactions</i> , 2004 , 45, 1077-1082	1.3	166
261	Shape memory behavior of TiTa and its potential as a high-temperature shape memory alloy. <i>Acta Materialia</i> , 2009 , 57, 1068-1077	8.4	162
260	Shape memory properties of TiNbMo biomedical alloys. <i>Acta Materialia</i> , 2010 , 58, 4212-4223	8.4	161
259	Effect of Ta addition on shape memory behavior of Ti ₂ Nb alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 417, 120-128	5.3	151
258	Composition dependent crystallography of β -martensite in TiNb-based Titanium alloy. <i>Philosophical Magazine</i> , 2007 , 87, 3325-3350	1.6	127
257	Mechanical Properties and Shape Memory Behavior of Ti-Mo-Ga Alloys. <i>Materials Transactions</i> , 2004 , 45, 1090-1095	1.3	115
256	Self-accommodation in TiNb shape memory alloys. <i>Acta Materialia</i> , 2009 , 57, 4054-4064	8.4	111
255	Origin of {3 3 2} twinning in metastable Ti alloys. <i>Acta Materialia</i> , 2014 , 64, 345-355	8.4	109
254	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
253	Novel Ti-base superelastic alloys with large recovery strain and excellent biocompatibility. <i>Acta Biomaterialia</i> , 2015 , 17, 56-67	10.8	89

252	Cyclic deformation behavior of a Ti ₂ 6 at.% Nb alloy. <i>Acta Materialia</i> , 2009 , 57, 2461-2469	8.4	87
251	Effect of thermo-mechanical treatment on mechanical properties and shape memory behavior of Ti ₂ 6 at.% Nb alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 438-440, 839-843	5.3	87
250	Anomalous temperature dependence of the superelastic behavior of Ti ₂ Nb ₂ Mo alloys. <i>Acta Materialia</i> , 2011 , 59, 1464-1473	8.4	86
249	Interfacial defects in Ti ₂ Nb shape memory alloys. <i>Acta Materialia</i> , 2008 , 56, 3088-3097	8.4	77
248	Material design and shape memory properties of smart composites composed of polymer and ferromagnetic shape memory alloy particles. <i>Science and Technology of Advanced Materials</i> , 2004 , 5, 503-509	7.1	77
247	Superelastic properties of biomedical (Ti-Zr)-Mo-Sn alloys. <i>Materials Science and Engineering C</i> , 2015 , 48, 11-20	8.3	72
246	Martensite transformation temperatures and mechanical properties of ternary NiTi alloys with offstoichiometric compositions. <i>Intermetallics</i> , 1998 , 6, 291-301	3.5	72
245	Anisotropy and Temperature Dependence of Young's Modulus in Textured Ti ₂ NbAl Biomedical Shape Memory Alloy. <i>Materials Transactions</i> , 2005 , 46, 1597-1603	1.3	71
244	Effect of Annealing Temperature on Microstructure and Shape Memory Characteristics of Ti ₂ Nb ₂ Zr(at%) Biomedical Alloy. <i>Materials Transactions</i> , 2006 , 47, 505-512	1.3	64
243	Effect of Nb content and heat treatment temperature on superelastic properties of Ti ₂ 4Zr ₂ (B ₁₂)Nb ₂ Sn alloys. <i>Scripta Materialia</i> , 2015 , 95, 46-49	5.6	61
242	Texture of Ti ₂ Ni rolled thin plates and sputter-deposited thin films. <i>International Journal of Plasticity</i> , 2000 , 16, 1135-1154	7.6	61
241	Mechanical Properties of Ti-Base Shape Memory Alloys. <i>Materials Science Forum</i> , 2003 , 426-432, 3121-3124	2.6	56
240	Effects of short time heat treatment on superelastic properties of a Ti ₂ NbAl biomedical shape memory alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 438-440, 870-874	5.3	55
239	Mechanical properties of Ti ₂ Nb biomedical shape memory alloys containing Ge or Ga. <i>Materials Science and Engineering C</i> , 2005 , 25, 426-432	8.3	55
238	Effect of Sn addition on stress hysteresis and superelastic properties of a Ti ₂ 5Nb ₂ Mo alloy. <i>Scripta Materialia</i> , 2014 , 72-73, 29-32	5.6	49
237	Effect of {001}<110> texture on superelastic strain of Ti ₂ NbAl biomedical shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 438-440, 865-869	5.3	48
236	Effect of nitrogen addition and annealing temperature on superelastic properties of Ti ₂ Nb ₂ Zr ₂ Al alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 6844-6852	5.3	47
235	Room temperature aging behavior of Ti ₂ Nb ₂ Mo-based superelastic alloys. <i>Acta Materialia</i> , 2012 , 60, 2437-2447	8.4	46

234	Mechanical Properties of Ti–50(Pt, Ir) High-Temperature Shape Memory Alloys. <i>Materials Transactions</i> , 2006 , 47, 650-657	1.3	45
233	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
232	Potential of IrAl base alloys as ultrahigh-temperature smart coatings. <i>Intermetallics</i> , 2000 , 8, 1081-1090	3.5	43
231	Martensitic Transformation and Superelasticity of Ti-Nb-Pt Alloys. <i>Materials Transactions</i> , 2007 , 48, 400-406	4.0	41
230	Effect of Nb content on deformation behavior and shape memory properties of Ti–Nb alloys. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S435-S438	5.7	40
229	Self-accommodation of B19' martensite in Ti–Ni shape memory alloys. Part III. Analysis of habit plane variant clusters by the geometrically nonlinear theory. <i>Philosophical Magazine</i> , 2012 , 92, 2247-2263	1.6	40
228	Shape memory effect and pseudoelasticity of TiPt. <i>Intermetallics</i> , 2010 , 18, 2275-2280	3.5	38
227	Crystallographic orientation and stress-amplitude dependence of damping in the martensite phase in textured Ti–Nb–Al shape memory alloy. <i>Acta Materialia</i> , 2010 , 58, 2535-2544	8.4	36
226	SHAPE MEMORY EFFECT AND CYCLIC DEFORMATION BEHAVIOR OF Ti–Nb–Ni ALLOYS. <i>Functional Materials Letters</i> , 2009 , 02, 79-82	1.2	34
225	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
224	Heating-induced martensitic transformation and time-dependent shape memory behavior of Ti–Nb–D alloy. <i>Acta Materialia</i> , 2014 , 80, 317-326	8.4	33
223	Role of oxygen atoms in β martensite of Ti-20 at.% Nb alloy. <i>Scripta Materialia</i> , 2016 , 112, 15-18	5.6	30
222	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
221	Phase Stability and Mechanical Properties of IrAl Alloys. <i>Materials Transactions, JIM</i> , 1997 , 38, 871-878		29
220	High-temperature mechanical and shape memory properties of TiPt–Zr and TiPt–Ru alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 564, 34-41	5.3	28
219	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
218	Plastic deformation behaviour of single-crystalline martensite of Ti-Nb shape memory alloy. <i>Scientific Reports</i> , 2017 , 7, 15715	4.9	27
217	Effect of Sn and Zr addition on the martensitic transformation behavior of Ti-Mo shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 76-82	5.7	26

216	Ti(Pt, Pd, Au) based High Temperature Shape Memory Alloys. <i>Materials Today: Proceedings</i> , 2015 , 2, S517-S522	1.5	26
215	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
214	Effect of Nitrogen Addition on Superelasticity of Ti-Zr-Nb Alloys. <i>Materials Transactions</i> , 2009 , 50, 2726-2730	2.3	24
213	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
212	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
211	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
210	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
209	Alloys Design of PdTi-Based Shape Memory Alloys Based on Defect Structures and Site Preference of Ternary Elements. <i>Journal of Intelligent Material Systems and Structures</i> , 1996 , 7, 312-320	2.3	21
208	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
207	Pseudoelastic Properties of Cold-Rolled TiNbAl Alloy. <i>Materials Science Forum</i> , 2005 , 475-479, 2323-2328	0.4	20
206	?????????. <i>Keikin-zoku/Journal of Japan Institute of Light Metals</i> , 2005 , 55, 613-617	0.3	20
205	Tensile behavior of micro-sized specimen made of single crystalline nickel. <i>Materials Letters</i> , 2015 , 153, 36-39	3.3	19
204	Wide-range temperature dependences of Brillouin scattering properties in polymer optical fiber. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 042502	1.4	19
203	A comparative study on the effects of the β and β' phases on the temperature dependence of shape memory behavior of a Ti ₇₀ Nb alloy. <i>Scripta Materialia</i> , 2015 , 103, 37-40	5.6	18
202	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
201	Effect of Annealing Temperature on Microstructure and Superelastic Properties of Ti-Au-Cr-Zr Alloy. <i>Materials Transactions</i> , 2015 , 56, 404-409	1.3	17
200	Effect of microstructure on hydrogen pulverization of Nb ₃ AlNb two phase alloys. <i>Intermetallics</i> , 1998 , 6, 61-69	3.5	17
199	Improvement in room temperature ductility of intermetallic alloys through microstructural control. <i>Intermetallics</i> , 1996 , 4, S171-S179	3.5	17

198	Ageing behavior of Ti ₃ Cr ₃ Sn Titanium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 530, 504-510	5.3	16
197	Martensitic Transformation of TiAu Shape Memory Alloys. <i>Materials Science Forum</i> , 2007 , 561-565, 1541-1544	5.4	16
196	Compressive mechanical properties of multi-phase alloys based on B2 CoAl and E21 Co ₃ AlC. <i>Intermetallics</i> , 2000 , 8, 749-757	3.5	16
195	Effect of uniform distribution of β phase on mechanical, shape memory and pseudoelastic properties of Ti ₃ Cr ₃ Sn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 555, 28-35	5.3	15
194	Phase Transformation and Shape Memory Effect of Ti(Pt, Ir). <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 2901-2911	2.3	15
193	Comparative Study of Ti-xCr-3Sn Alloys for Biomedical Applications. <i>Materials Transactions</i> , 2011 , 52, 1787-1793	1.3	15
192	X-ray Diffraction Analysis of Ti-18 mol%Nb Based Shape Memory Alloys Containing 3d Transition Metal Elements. <i>Materials Transactions</i> , 2006 , 47, 1209-1213	1.3	15
191	Prediction of Substitutional Behavior of Ternary Elements in B2 Type NiTi, CoTi, FeTi and NiAl. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1996 , 60, 793-801	0.4	15
190	Phase transformation, oxidation and shape memory properties of Ti ₅₀ Au ₁₀ Zr alloy for high temperature applications. <i>Journal of Alloys and Compounds</i> , 2014 , 595, 200-205	5.7	14
189	Fabrication of Ti-Sn-Cr Shape Memory Alloy by PM Process and its Properties. <i>Materials Science Forum</i> , 2012 , 706-709, 1943-1947	0.4	14
188	Acoustic Study of Martensitic Phase Transformation in TiNbAl Shape Memory Alloy. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 4322-4324	1.4	14
187	Hardness and Aging of Ni ₂ MnGa Ferromagnetic Shape Memory Alloys. <i>Materials Transactions</i> , 2002 , 43, 852-855	1.3	14
186	Vibration damping of Ni-Mn-Ga/silicone composites. <i>Scripta Materialia</i> , 2018 , 146, 9-12	5.6	14
185	Effects of hydrothermal treatment and pelletizing temperature on the mechanical properties of empty fruit bunch pellets. <i>Applied Energy</i> , 2019 , 251, 113385	10.7	13
184	Crystallography of Martensite in TiAu Shape Memory Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 111-120	2.3	13
183	Effect of Co addition on oxidation behavior of IrAl. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 352, 16-22	5.3	13
182	Phase Stability and Mechanical Properties of Ti-Ni Shape Memory Alloys Containing Platinum Group Metals. <i>Materials Science Forum</i> , 2003 , 426-432, 2333-2338	0.4	13
181	Mechanical Properties of Ti-Nb Biomedical Shape Memory Alloys Containing 13- and 14-Group Elements. <i>Materials Science Forum</i> , 2005 , 475-479, 2329-2332	0.4	13

180	Phase constitution of some intermetallics in continuous quaternary pillar phase diagrams. <i>Journal of Phase Equilibria and Diffusion</i> , 2001 , 22, 394-399		13
179	Cold rolling of B2 intermetallics. <i>Journal of Alloys and Compounds</i> , 2000 , 302, 266-273	5.7	13
178	Characterization of phase transformations, long range order and thermal properties of Ni ₂ MnGa alloys. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2001 , 12, 9-17	0.4	13
177	Tensile behavior of micro-sized specimen fabricated from nanocrystalline nickel film. <i>Microelectronic Engineering</i> , 2015 , 141, 17-20	2.5	12
176	Effect of Sn and Zr content on superelastic properties of Ti-Mo-Sn-Zr biomedical alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 704, 72-76	5.3	12
175	Effect of Nb Addition on Shape Memory Behavior of Ti-Mo-Ga Alloys. <i>Materials Transactions</i> , 2006 , 47, 518-522	1.3	12
174	Crystal Growth of Cobalt Film Fabricated by Electrodeposition with Dense Carbon Dioxide. <i>Journal of the Electrochemical Society</i> , 2015 , 162, D423-D426	3.9	11
173	High-Temperature Shape Memory Alloys Based on Ti-Platinum Group Metals Compounds. <i>Materials Science Forum</i> , 2014 , 783-786, 2541-2545	0.4	11
172	Effect of β phase precipitation on martensitic transformation and mechanical properties of metastable Ti ₄₉ Cr ₃ Sn biomedical alloy. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S427-S430	5.7	11
171	Strengthening of Ti ₄₉ Cr ₃ Sn alloy through α grain refinement, β phase precipitation and resulting effects on shape memory properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 829-835	5.3	11
170	Mechanical Properties of Co Alloys Based on a E21 Type Co ₃ AlC Intermetallic Compound. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 288, 793		11
169	Tailoring thermomechanical treatment of Ni-Fe-Ga melt-spun ribbons for elastocaloric applications. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 4540-4546	5.5	10
168	Hydrogen absorption of Nb-Al alloy bulk specimens. <i>Journal of Alloys and Compounds</i> , 1998 , 281, 268-274	5.7	10
167	Estimation of Defect Structure and Site Preference of Additional Elements in B2-Type NiAl, CoAl and FeAl at Offstoichiometry. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 364, 437		10
166	Aluminum matrix texture in Al ₃ Ti functionally graded materials analyzed by electron back-scattering diffraction. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 01AG03	1.4	10
165	Composition dependence of phase transformation behavior and shape memory effect of Ti(Pt, Ir). <i>Journal of Alloys and Compounds</i> , 2013 , 577, S399-S403	5.7	9
164	Comparison of Bond Order, Metal d Orbital Energy Level, Mechanical and Shape Memory Properties of Ti-Cr-Sn and Ti-Ag-Sn Alloys. <i>Materials Transactions</i> , 2013 , 54, 566-573	1.3	9
163	The effect of hydrogen on the hardness of Fe-Al alloys. <i>Jom</i> , 1997 , 49, 56-59	2.1	9

162	Effect of wet environment on hardness and yield stress of B2 FeAl alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1998 , 258, 135-145	5.3	9
161	Cytocompatibility Evaluation of Ti-Ni and Ti-Mo-Al System Shape Memory Alloys. <i>Materials Transactions</i> , 2007 , 48, 361-366	1.3	9
160	Effects of Aging on Phase Constitution, Lattice Parameter and Mechanical Properties of Ti-4 mol%Au Near-Eutectoid Alloy. <i>Materials Transactions</i> , 2007 , 48, 385-389	1.3	9
159	Effect of boron addition on transformation behavior and tensile properties of TiNbAl alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 438-440, 830-834	5.3	9
158	Estimation of the Vacancy Properties in Ordered Ni3Al Alloys by Cluster Variation Method. <i>Materials Transactions, JIM</i> , 1992 , 33, 698-705		9
157	Microstructural Evolution in Metastable TiMoNbAl Alloy During Isothermal Aging. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900416	3.5	8
156	Formation process of the incompatible martensite microstructure in a beta-titanium shape memory alloy. <i>Acta Materialia</i> , 2017 , 124, 351-359	8.4	8
155	Diffusion Bonding of Co to TiAu High Temperature Shape Memory Alloy. <i>Materials Transactions</i> , 2008 , 49, 1998-2005	1.3	8
154	Phase Transformation of B2-PtTi with Ir. <i>Materials Science Forum</i> , 2003 , 426-432, 2267-2272	0.4	8
153	Effects of Second Phases on the Pulverization of Nb3Al-Base Alloys by Hydrogenation. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1997 , 61, 1132-1138	0.4	8
152	Effect of Cr additions on the phase constituent, mechanical properties, and shape memory effect of near-eutectoid TiAu towards the biomaterial applications. <i>Journal of Alloys and Compounds</i> , 2021 , 867, 159037	5.7	8
151	Magnetic field-induced rubber-like behavior in Ni-Mn-Ga particles/polymer composite. <i>Scientific Reports</i> , 2019 , 9, 3443	4.9	7
150	Effect of Aging on Mechanical Properties of Ti-Mo-Al Biomedical Shape Memory Alloy. <i>Materials Science Forum</i> , 2010 , 654-656, 2150-2153	0.4	7
149	Cold Workability, Mechanical Properties, Pseudoelastic and Shape Memory Response of Silver Added Ti-5Cr Alloys. <i>Advanced Materials Research</i> , 2011 , 409, 639-644	0.5	7
148	Damping Capacity of Ti-Nb-Al Shape Memory β -Titanium Alloy with {001} β Texture. <i>Materials Transactions</i> , 2007 , 48, 395-399	1.3	7
147	Potentials of Shape Memory Effect in (Pt, Ir)-50 at%Ti. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2005 , 69, 634-642	0.4	7
146	Shape Memory Behavior of NiMnGa/Epoxy Smart Composites. <i>Materials Science Forum</i> , 2005 , 475-479, 2067-2070	0.4	7
145	Change of Ms Temperatures and its Correlation to Atomic Configurations of Offstoichiometric NiTi-Cr and NiTi-Co Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 459, 287		7

144	Preparation of Nb-Cr Alloy Powder by Hydrogenation. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1998 , 62, 681-689	0.4	7
143	Influence of the precipitates on the shape memory effect and superelasticity of the near- β TiAl ₃ alloy towards biomaterial applications. <i>Intermetallics</i> , 2021 , 133, 107180	3.5	7
142	Compatibility at Junction Planes between Habit Plane Variants with Internal Twin in Ti-Ni-Pd Shape Memory Alloy. <i>Materials Transactions</i> , 2016 , 57, 233-240	1.3	7
141	Development of <001>-fiber texture in cold-groove-rolled Ti-Mo-Al-Zr biomedical alloy. <i>Materialia</i> , 2018 , 1, 52-61	3.2	7
140	Impact Damping in NiMnGa/Polymer Composites. <i>Materials Transactions</i> , 2014 , 55, 629-632	1.3	6
139	Effect of Al and Cu Contents on Mechanical Properties of Au-Cu-Al Shape Memory Alloys. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2015 , 80, 27-36	0.4	6
138	Effect of Sn Content on Phase Constitution and Mechanical Properties of Ti-Cr-Sn Shape Memory Alloys. <i>Materials Today: Proceedings</i> , 2015 , 2, S825-S828	1.4	6
137	Martensitic Transformation and Related Properties of AuTi-FeTi Pseudobinary Alloys. <i>Advanced Materials Research</i> , 2014 , 922, 25-30	0.5	6
136	Effect of Cold-Rolling Rate on Texture in Ti-Mo-Al-Zr Shape Memory Alloy. <i>Materials Science Forum</i> , 2013 , 738-739, 262-266	0.4	6
135	Effect of Carbon Addition of Shape Memory Properties of TiNb Alloys. <i>Materials Science Forum</i> , 2010 , 638-642, 2046-2051	0.4	6
134	Phase Constitution and Mechanical Property of Ti-Cr and Ti-Cr-Sn Alloys Containing 3D Transition Metal Elements. <i>Advanced Materials Research</i> , 2010 , 89-91, 307-312	0.5	6
133	Deformation Texture of Ti-26mol%Nb-3mol%Al β Titanium Alloy. <i>Materials Science Forum</i> , 2012 , 706-709, 1899-1902	0.4	6
132	High-Temperature Shape Memory Effect of Ti-(Pt,Ir). <i>Materials Science Forum</i> , 2007 , 539-543, 3273-3278	0.4	6
131	Martensitic Transformation Behavior and Shape Memory Properties of Ti-Ni-Pt Melt-Spun Ribbons. <i>Materials Transactions</i> , 2006 , 47, 540-545	1.3	6
130	Transformation Behavior of TiNiPt Thin Films Fabricated Using Melt Spinning Technique. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 842, 144		6
129	Phase Stability in Wear-Induced Supersaturated Al-Ti Solid Solution. <i>Materials Science Forum</i> , 2002 , 396-402, 1467-1472	0.4	6
128	Substitution Behavior of Additional Elements in the L12-Type Al ₃ Li Metastable Phase in Al-Li Alloys. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1994 , 58, 865-871	0.4	6
127	Prediction of the Type of Defect Structures in Binary Off-stoichiometric Intermetallic Compounds by Pseudo-Ground State Analysis. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1994 , 58, 483-487	0.4	6

126	Cluster variation method approach to estimating vacancy properties in B2 type ordered NiAl and NiFeAl alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995 , 192-193, 930-935	5.3	6
125	Brillouin characterization of slimmed polymer optical fibers for strain sensing with extremely wide dynamic range. <i>Optics Express</i> , 2018 , 26, 28030-28037	3.3	6
124	Effect of 3d transition metal additions on the phase constituent, mechanical properties, and shape memory effect of near-eutectoid Ti ₃ Au biomedical alloys. <i>Journal of Alloys and Compounds</i> , 2021 , 857, 157599	5.7	6
123	Effects of hydrothermal treatment and pelletizing temperature on physical properties of empty fruit bunch pellets. <i>Energy Procedia</i> , 2019 , 158, 681-687	2.3	5
122	Large An hysteretic Deformation of Shape Memory Alloys at Postcritical Temperatures and Stresses. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1700273	1.3	5
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