

# Hideki Hosoda

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

269  
papers

6,515  
citations

40  
h-index

75  
g-index

278  
ext. papers

7,109  
ext. citations

2.7  
avg, IF

5.74  
L-index

#	Paper	IF	Citations
269	Investigations of Deformation Behavior and Microstructure of Al Tailored TiMo High Temperature Shape Memory Alloys during Isothermal Holding at 393 K. <i>Micro</i> , <b>2022</b> , 2, 113-122		0
268	New dislocation dissociation accompanied by anti-phase shuffling in the $\beta$ martensite phase of a Ti alloy. <i>Acta Materialia</i> , <b>2022</b> , 227, 117705	8.4	0
267	Investigations of mechanical properties and deformation behaviors of the Cr modified TiAu shape memory alloys. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 897, 163134	5.7	1
266	Large magnetostrains of Ni-Mn-Ga/silicone composite containing system of oriented 5M and 7M martensitic particles. <i>Scripta Materialia</i> , <b>2022</b> , 207, 114265	5.6	2
265	Enhancement of the superelastic behavior of the TiAuCrBased shape memory alloys via the manipulations of annealing treatments and Ta additions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 847, 143312	5.3	0
264	Non-linear elastic behavior of Ni-Fe-Ga(Co) shape memory alloy and Landau-energy landscape reconstruction. <i>Acta Materialia</i> , <b>2021</b> , 224, 117530	8.4	2
263	Investigations of Effects of Intermetallic Compound on the Mechanical Properties and Shape Memory Effect of Ti-Au-Ta Biomaterials. <i>Materials</i> , <b>2021</b> , 14,	3.5	2
262	Elaboration of magnetostrain-active NiMnGa particles/polymer layered composites. <i>Materials Letters</i> , <b>2021</b> , 289, 129427	3.3	1
261	Influence of the precipitates on the shape memory effect and superelasticity of the near eutectoid TiAuBe alloy towards biomaterial applications. <i>Intermetallics</i> , <b>2021</b> , 133, 107180	3.5	7
260	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> , <b>2021</b> , 867, 159037	5.7	8
259	Developments of the Electroactive Materials for Non-Enzymatic Glucose Sensing and Their Mechanisms. <i>Electrochem</i> , <b>2021</b> , 2, 347-389	2.9	1
258	Microstructure of $\beta$ - $\beta'$ dual phase formed from isothermal $\beta$ phase via novel decomposition pathway in metastable Ti alloy. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 868, 159237	5.7	3
257	Effect of 3d transition metal additions on the phase constituent, mechanical properties, and shape memory effect of near eutectoid TiAu biomedical alloys. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 857, 157599	5.7	6
256	Lightweight, multifunctional materials based on magnetic shape memory alloys <b>2021</b> , 187-237		
255	Superelastic behavior of single crystalline Ni <sub>48</sub> Fe <sub>20</sub> Co <sub>5</sub> Ga <sub>27</sub> micro-pillars near austenite $\beta$ martensite critical point. <i>AIP Advances</i> , <b>2021</b> , 11, 025213	1.5	1
254	Effects of Cr and Sn additives on the martensitic transformation and deformation behavior of Ti-Cr-Sn biomedical shape memory alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 822, 141668	5.3	3
253	Evaluations of mechanical properties and shape memory behaviors of the aging treated TiAuMo alloys. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 269, 124775	4.4	2

252	Enhancement of the shape memory effect by the introductions of Cr and Sn into the Ti alloy towards the biomedical applications. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 875, 160088	5.7	4
251	Enhancement of mechanical properties and shape memory effect of Ti-Cr-based alloys via Au and Cu modifications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2021</b> , 123, 104707	4.1	3
250	Mechanical property enhancement of the Ag-diluted Au-CuAl shape memory alloy via the ductile phase toughening. <i>Intermetallics</i> , <b>2021</b> , 139, 107349	3.5	1
249	Heterogeneous Deformation Behavior of Cu-Ni-Si Alloy by Micro-Size Compression Testing. <i>Crystals</i> , <b>2020</b> , 10, 1162	2.3	1
248	Effect of cross-sectional area reduction rate and alloy composition on the formation of $\beta$ -fiber texture in Ti-Mo-Al-Zr alloy wire. <i>MATEC Web of Conferences</i> , <b>2020</b> , 321, 11019	0.3	
247	The Effect of Particle Shape on Magnetic Field-Induced Rubber-Like Behavior of Ni-Mn-Ga/Silicone Composites. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 886, 012055	0.4	
246	Tailoring thermomechanical treatment of Ni-Fe-Ga melt-spun ribbons for elastocaloric applications. <i>Journal of Materials Research and Technology</i> , <b>2019</b> , 8, 4540-4546	5.5	10
245	Phase Reaction and Diffusion Behavior between AuTi and CoTi Intermetallic Compounds. <i>Materials Transactions</i> , <b>2019</b> , 60, 631-635	1.3	1
244	Effects of hydrothermal treatment and pelletizing temperature on physical properties of empty fruit bunch pellets. <i>Energy Procedia</i> , <b>2019</b> , 158, 681-687	2.3	5
243	Isothermal martensitic transformation behavior of TiNbD alloy. <i>Materials Letters</i> , <b>2019</b> , 257, 126691	3.3	3
242	Effects of hydrothermal treatment and pelletizing temperature on the mechanical properties of empty fruit bunch pellets. <i>Applied Energy</i> , <b>2019</b> , 251, 113385	10.7	13
241	Compressive Deformation Behavior and Magnetic Susceptibility of Au <sub>2</sub> CuAl Biomedical Shape Memory Alloys. <i>Materials Transactions</i> , <b>2019</b> , 60, 662-665	1.3	1
240	Magnetic field-induced rubber-like behavior in Ni-Mn-Ga particles/polymer composite. <i>Scientific Reports</i> , <b>2019</b> , 9, 3443	4.9	7
239	Evaluation of the Shape Memory Effect by Micro-Compression Testing of Single Crystalline Ti-27Nb Ni-Free Alloy. <i>Materials</i> , <b>2019</b> , 13,	3.5	2
238	Microstructural Evolution in Metastable TiMoSnAl Alloy During Isothermal Aging. <i>Advanced Engineering Materials</i> , <b>2019</b> , 21, 1900416	3.5	8
237	Influence of internal stress on magnetostrain effect in NiMnGa/polymer composite. <i>Results in Materials</i> , <b>2019</b> , 2, 100037	2.3	2
236	Goss Orientation Evolution in Ti <sub>5</sub> Mo <sub>8</sub> Al <sub>3</sub> Zr Shape Memory Alloy upon Heat Treatment. <i>Materials Transactions</i> , <b>2019</b> , 60, 1890-1897	1.3	1
235	A study on lattice matching method by CoRu layer between CoCrPtB magnetic layer and CrTi-(Mo, W) alloy underlayer. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 469, 545-549	2.8	

234	Large An hysteretic Deformation of Shape Memory Alloys at Postcritical Temperatures and Stresses. <i>Physica Status Solidi (B): Basic Research</i> , <b>2018</b> , 255, 1700273	1.3	5
233	Compression response of Ni-Mn-Ga/silicone composite and study of three-dimensional deformation of particles. <i>Smart Materials and Structures</i> , <b>2018</b> , 27, 085024	3.4	5
232	Brillouin characterization of slimmed polymer optical fibers for strain sensing with extremely wide dynamic range. <i>Optics Express</i> , <b>2018</b> , 26, 28030-28037	3.3	6
231	Vibration damping of Ni-Mn-Ga/silicone composites. <i>Scripta Materialia</i> , <b>2018</b> , 146, 9-12	5.6	14
230	An In Situ Observation of Slip Deformation in a Compressed Ti-Mo-Al Single Crystal. <i>Materials Science Forum</i> , <b>2018</b> , 941, 1463-1467	0.4	
229	Development of <001>-fiber texture in cold-groove-rolled Ti-Mo-Al-Zr biomedical alloy. <i>Materialia</i> , <b>2018</b> , 1, 52-61	3.2	7
228	Deformation of Biomedical AuCuAl-Based Shape Memory Alloy Micropillars. <i>MRS Advances</i> , <b>2017</b> , 2, 1411-1415	1.4	5
227	Temperature Dependency of Diffusional Transformation Texture Development in Steel Sheet. <i>Materials Transactions</i> , <b>2017</b> , 58, 554-560	1.3	
226	Effect of Sn and Zr content on superelastic properties of Ti-Mo-Sn-Zr biomedical alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 704, 72-76	5.3	12
225	Plastic deformation behaviour of single-crystalline martensite of Ti-Nb shape memory alloy. <i>Scientific Reports</i> , <b>2017</b> , 7, 15715	4.9	27
224	Formation process of the incompatible martensite microstructure in a beta-titanium shape memory alloy. <i>Acta Materialia</i> , <b>2017</b> , 124, 351-359	8.4	8
223	Effect of Sn and Zr addition on the martensitic transformation behavior of Ti-Mo shape memory alloys. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 695, 76-82	5.7	26
222	Micro-compression study of Ni-Fe(Co)-Ga magnetic shape memory alloy for MEMS sensors <b>2017</b> ,		1
221	Phase Constitution and Martensitic Transformation Behavior of Au-51Ti-18Co Biomedical Shape Memory Alloy Heat-Treated at 1173K to 1373K. <i>Materials Science Forum</i> , <b>2016</b> , 879, 256-261	0.4	1
220	Role of Interstitial Oxygen Atom on Martensitic Transformation of Ti-Nb Alloy. <i>Advances in Science and Technology</i> , <b>2016</b> , 97, 115-118	0.1	
219	Deformation Behavior of Pure Cu and Cu-Ni-Si Alloy Evaluated by Micro-Tensile Testing. <i>Materials Transactions</i> , <b>2016</b> , 57, 1897-1901	1.3	3
218	Role of oxygen atoms in $\beta$ martensite of Ti-20 at.% Nb alloy. <i>Scripta Materialia</i> , <b>2016</b> , 112, 15-18	5.6	30
217	Optimum rolling ratio for obtaining {001} recrystallization texture in Ti-Nb-Al biomedical shape memory alloy. <i>Materials Science and Engineering C</i> , <b>2016</b> , 61, 499-505	8.3	23

216	Anisotropy of Young's Modulus in a Ti-Mo-Al-Zr Alloy with Goss Texture. <i>Materials Transactions</i> , <b>2016</b> , 57, 1998-2001	1.3	5
215	Aluminum matrix texture in Al <sub>3</sub> Ti functionally graded materials analyzed by electron back-scattering diffraction. <i>Japanese Journal of Applied Physics</i> , <b>2016</b> , 55, 01AG03	1.4	10
214	Martensitic Transformation Behavior of Oxygen-Added Ti-20at.% Nb ALLOY <b>2016</b> , 1007-1009		
213	Shape Memory Behavior of Ti-Au-Cr Biomedical Alloy <b>2016</b> , 1695-1698		
212	Phase Constitution and Mechanical Properties of Ti-Mo-Sn-Zr Shape Memory Alloys <b>2016</b> , 1747-1750		1
211	Martensitic Transformation and Mechanical Properties of AuCuAl-Based Biomedical Shape Memory Alloys Containing Various Quaternary Elements. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>2016</b> , 80, 71-76	0.4	3
210	Compatibility at Junction Planes between Habit Plane Variants with Internal Twin in Ti-Ni-Pd Shape Memory Alloy. <i>Materials Transactions</i> , <b>2016</b> , 57, 233-240	1.3	7
209	Lattice Parameter Dependence of Kinematic Compatibility in Martensite Microstructure of Cubic-Orthorhombic Transformation. <i>Materials Transactions</i> , <b>2016</b> , 57, 751-754	1.3	
208	Mechanical properties of Sn electrodeposited in supercritical CO <sub>2</sub> emulsions using micro-compression test. <i>Microelectronic Engineering</i> , <b>2015</b> , 141, 219-222	2.5	4
207	Crystal Growth of Cobalt Film Fabricated by Electrodeposition with Dense Carbon Dioxide. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, D423-D426	3.9	11
206	A comparative study on the effects of the $\beta$ and $\beta'$ phases on the temperature dependence of shape memory behavior of a Ti <sub>70</sub> Nb <sub>30</sub> alloy. <i>Scripta Materialia</i> , <b>2015</b> , 103, 37-40	5.6	18
205	Tensile behavior of micro-sized specimen made of single crystalline nickel. <i>Materials Letters</i> , <b>2015</b> , 153, 36-39	3.3	19
204	Tensile behavior of micro-sized specimen fabricated from nanocrystalline nickel film. <i>Microelectronic Engineering</i> , <b>2015</b> , 141, 17-20	2.5	12
203	Phase Constituent and Reverse Martensitic Transformation Temperature of PtTi-CoTi Diffusion Couple Heat-Treated at 1373K. <i>Materials Research Society Symposia Proceedings</i> , <b>2015</b> , 1760, 163		3
202	Novel Ti-base superelastic alloys with large recovery strain and excellent biocompatibility. <i>Acta Biomaterialia</i> , <b>2015</b> , 17, 56-67	10.8	89
201	Incompatibility of Martensite Variant Clusters in Self-accommodation Microstructure in Ti-Ni-Pd High Temperature Shape Memory Alloy. <i>Materials Research Society Symposia Proceedings</i> , <b>2015</b> , 1760, 193		
200	Superelastic properties of biomedical (Ti-Zr)-Mo-Sn alloys. <i>Materials Science and Engineering C</i> , <b>2015</b> , 48, 11-20	8.3	72
199	Effect of Nb content and heat treatment temperature on superelastic properties of Ti <sub>40</sub> Zr <sub>30</sub> (B <sub>12</sub> )Nb <sub>20</sub> Sn alloys. <i>Scripta Materialia</i> , <b>2015</b> , 95, 46-49	5.6	61

198	Effect of Zr Addition on Mechanical and Shape Memory Properties of Ti-5Mo-3Sn Alloys. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>2015</b> , 80, 37-44	0.4	2
197	Effect of Annealing Temperature on Texture Formation of Ti-4Au-5Cr-8Zr Biomedical Superelastic Alloy. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>2015</b> , 80, 45-50	0.4	2
196	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> , <b>2015</b> , 80, 27-36	0.4	6
195	Effect of Heat Treatment Temperature on Microstructure and Hardness of Zr-9 mol%Au Near-Eutectoid Alloy. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>2015</b> , 80, 77-84	0.4	
194	Quantitative Evaluation of Resolution-Level Local-Micro Deformation Based on Three Dimensional Microstructure Images. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>2015</b> , 80, 85-91	0.4	2
193	Deformation Behaviour of Al-Mg Alloy Bi-Crystal Micro-Pillar Evaluated by Micro-Compression Test. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>2015</b> , 80, 66-70	0.4	1
192	Effect of Annealing Temperature on Microstructure and Superelastic Properties of Ti-Au-Cr-Zr Alloy. <i>Materials Transactions</i> , <b>2015</b> , 56, 404-409	1.3	17
191	Oxidation Behavior of Au-55 mol%Ti High Temperature Shape Memory Alloy during Heating in Ar-50 vol%O <sub>2</sub> Environment. <i>Materials Transactions</i> , <b>2015</b> , 56, 600-604	1.3	2
190	Effect of Nb Addition on Martensitic Transformation Behavior of AuTi-15Co Based Biomedical Shape Memory Alloys. <i>Materials Transactions</i> , <b>2015</b> , 56, 429-434	1.3	5
189	Preferential Morphology of Self-accommodation Microstructure in Ti-Ni-Pd Shape Memory Alloy. <i>Materials Today: Proceedings</i> , <b>2015</b> , 2, S549-S552	1.4	2
188	The Effect of Aging Temperature on Morphology of $\beta$ Phase in Ti-3Mo-6Sn-5Zr Shape Memory Alloy. <i>Materials Today: Proceedings</i> , <b>2015</b> , 2, S817-S820	1.4	1
187	Ti(Pt, Pd, Au) based High Temperature Shape Memory Alloys. <i>Materials Today: Proceedings</i> , <b>2015</b> , 2, S517-S522	1.5	26
186	Deformation Behavior of Ti-4Au-5Cr-8Zr Superelastic Alloy With or Without Containing Ti <sub>3</sub> Au Precipitates. <i>Materials Today: Proceedings</i> , <b>2015</b> , 2, S821-S824	1.4	4
185	Effect of Sn Content on Phase Constitution and Mechanical Properties of Ti-Cr-Sn Shape Memory Alloys. <i>Materials Today: Proceedings</i> , <b>2015</b> , 2, S825-S828	1.4	6
184	Formation Process of Triangular Morphology of Self-Accommodation Martensite in Ti-Nb-Al Shape Memory Alloy. <i>MATEC Web of Conferences</i> , <b>2015</b> , 33, 06001	0.3	
183	In vitro evaluation of biocompatibility of Ti-Mo-Sn-Zr superelastic alloy. <i>Journal of Biomaterials Applications</i> , <b>2015</b> , 30, 119-30	2.9	4
182	Heating-induced martensitic transformation and time-dependent shape memory behavior of TiNbD alloy. <i>Acta Materialia</i> , <b>2014</b> , 80, 317-326	8.4	33
181	Origin of {3 3 2} twinning in metastable $\beta$ Ti alloys. <i>Acta Materialia</i> , <b>2014</b> , 64, 345-355	8.4	109

180	Impact Damping in NiMnGa/Polymer Composites. <i>Materials Transactions</i> , <b>2014</b> , 55, 629-632	1.3	6
179	TiAu based shape memory alloys for high temperature applications. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2014</b> , 60, 012018	0.4	3
178	Corrosion Behavior of NiTi and Ni-free Ti-based Biomedical Shape Memory Alloys. <i>Zairyo To Kankyo/Corrosion Engineering</i> , <b>2014</b> , 63, 301-308	0.5	2
177	High-Temperature Shape Memory Alloys Based on Ti-Platinum Group Metals Compounds. <i>Materials Science Forum</i> , <b>2014</b> , 783-786, 2541-2545	0.4	11
176	Electrodeposition of Tin Using Supercritical Carbon Dioxide Emulsions. <i>ECS Electrochemistry Letters</i> , <b>2014</b> , 3, D44-D45		4
175	Martensitic Transformation and Related Properties of AuTi-FeTi Pseudobinary Alloys. <i>Advanced Materials Research</i> , <b>2014</b> , 922, 25-30	0.5	6
174	Wide-range temperature dependences of Brillouin scattering properties in polymer optical fiber. <i>Japanese Journal of Applied Physics</i> , <b>2014</b> , 53, 042502	1.4	19
173	Martensitic Transformation and Mechanical Properties of Fe-added Au-Cu-Al Shape Memory Alloy with Various Heat Treatment Conditions. <i>Materials Research Society Symposia Proceedings</i> , <b>2014</b> , 1760, 1		3
172	Determination of Preferred Morphology of Self-Accommodating Martensite in Ti-Nb-Al Shape Memory Alloy Using Optical Microscopy. <i>Advanced Materials Research</i> , <b>2014</b> , 922, 260-263	0.5	1
171	Effect of Heat Treatment Condition on Texture in Ti-Mo-Al-Zr Shape Memory Alloy. <i>Advanced Materials Research</i> , <b>2014</b> , 922, 622-625	0.5	3
170	Effect of Zr Addition on Martensitic Transformation in TiMoSn Alloy. <i>Advanced Materials Research</i> , <b>2014</b> , 922, 137-142	0.5	5
169	Effect of Sn addition on stress hysteresis and superelastic properties of a Ti <sub>50</sub> Nb <sub>30</sub> Mo alloy. <i>Scripta Materialia</i> , <b>2014</b> , 72-73, 29-32	5.6	49
168	Phase transformation, oxidation and shape memory properties of Ti <sub>50</sub> Au <sub>10</sub> Zr alloy for high temperature applications. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 595, 200-205	5.7	14
167	Competition between invariant habit plane and compatible junction plane in TiNb-based shape memory alloy. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 577, S92-S95	5.7	1
166	Compressive Fracture Behavior of Bi-added Ni <sub>50</sub> Mn <sub>28</sub> Ga <sub>22</sub> Ferromagnetic Shape Memory Alloys. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1516, 139-144		5
165	Effect of Nb content on deformation behavior and shape memory properties of TiNb alloys. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 577, S435-S438	5.7	40
164	Composition dependence of phase transformation behavior and shape memory effect of Ti(Pt, Ir). <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 577, S399-S403	5.7	9
163	Effect of phase precipitation on martensitic transformation and mechanical properties of metastable Ti <sub>50</sub> Cr <sub>30</sub> Sn biomedical alloy. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 577, S427-S430	5.7	11

162	High-temperature mechanical and shape memory properties of TiPtZr and TiPtRu alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 564, 34-41	5.3	28
161	Strengthening of TiCrSn alloy through grain refinement, phase precipitation and resulting effects on shape memory properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 559, 829-835	5.3	11
160	Role of interstitial atoms in the microstructure and non-linear elastic deformation behavior of TiNb alloy. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 577, S404-S407	5.7	23
159	Effect of Cold-Rolling Rate on Texture in Ti-Mo-Al-Zr Shape Memory Alloy. <i>Materials Science Forum</i> , <b>2013</b> , 738-739, 262-266	0.4	6
158	Incompatibility and preferred morphology in the self-accommodation microstructure of Titanium shape memory alloy. <i>Philosophical Magazine</i> , <b>2013</b> , 93, 618-634	1.6	30
157	Magnetoelastic Anomalies Exhibited by Ni-Fe(Co)-Ga Polycrystalline Ferromagnetic Shape Memory Alloy. <i>Materials Transactions</i> , <b>2013</b> , 54, 1535-1538	1.3	5
156	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> , <b>2013</b> , 54, 566-573	1.3	9
155	The strain rate sensitivity behavior in Ti based shape memory alloys. <i>Transactions of the Materials Research Society of Japan</i> , <b>2013</b> , 38, 545-548	0.2	1
154	Effect of uniform distribution of phase on mechanical, shape memory and pseudoelastic properties of TiCrSn alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 555, 28-35	5.3	15
153	Development of NiMnGa/Polymer Composite Materials. <i>Materials Science Forum</i> , <b>2012</b> , 706-709, 31-36	0.4	1
152	Self-accommodation of B19' martensite in TiNi shape memory alloys. Part III. Analysis of habit plane variant clusters by the geometrically nonlinear theory. <i>Philosophical Magazine</i> , <b>2012</b> , 92, 2247-2263	1.6	40
151	Phase Transformation and Shape Memory Effect of Ti(Pt, Ir). <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2012</b> , 43, 2901-2911	2.3	15
150	Room temperature aging behavior of TiNbMo-based superelastic alloys. <i>Acta Materialia</i> , <b>2012</b> , 60, 2437-2447	8.4	46
149	Effect of Ageing on Mechanical and Shape Memory Properties of Ti-5Cr-4Ag Alloy. <i>Key Engineering Materials</i> , <b>2012</b> , 510-511, 111-117	0.4	3
148	Mechanical Spectroscopic Study of Equal-Channel Angular Pressed Al-Ni Eutectic Alloy. <i>Solid State Phenomena</i> , <b>2012</b> , 184, 173-178	0.4	
147	Deformation Texture of Ti-26mol%Nb-3mol%Al Titanium Alloy. <i>Materials Science Forum</i> , <b>2012</b> , 706-709, 1899-1902	0.4	6
146	Fabrication of Ti-Sn-Cr Shape Memory Alloy by PM Process and its Properties. <i>Materials Science Forum</i> , <b>2012</b> , 706-709, 1943-1947	0.4	14
145	Composition Dependence of Compatibility in Self-Accommodation Microstructure of Titanium Shape Memory Alloy. <i>Advances in Science and Technology</i> , <b>2012</b> , 78, 25-30	0.1	1



144	Martensitic transformation and superelastic properties of titanium alloys containing interstitial elements. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , <b>2012</b> , 62, 257-262	0.3	3
143	Novel Research Fields Derived from the Study on Intermetallic Compounds—From Green Innovation to Life Innovation—; <i>Materia Japan</i> , <b>2012</b> , 51, 168-178	0.1	
142	Comparative Study of Ti-xCr-3Sn Alloys for Biomedical Applications. <i>Materials Transactions</i> , <b>2011</b> , 52, 1787-1793	1.3	15
141	Ageing behavior of Ti <sub>3</sub> Cr <sub>3</sub> Sn titanium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 530, 504-510	5.3	16
140	Lattice modulation and superelasticity in oxygen-added Ti alloys. <i>Acta Materialia</i> , <b>2011</b> , 59, 6208-6218	8.4	187
139	Anomalous temperature dependence of the superelastic behavior of Ti <sub>3</sub> Nb <sub>3</sub> Mo alloys. <i>Acta Materialia</i> , <b>2011</b> , 59, 1464-1473	8.4	86
138	Crystallography of Martensite in TiAu Shape Memory Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2011</b> , 42, 111-120	2.3	13
137	Martensite Variant Reorientation of NiMnGa/Silicone Composites Containing Polystyrene Foam Particles. <i>Advanced Materials Research</i> , <b>2011</b> , 409, 645-650	0.5	2
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133	Effect of Aging on Mechanical Properties of Ti-Mo-Al Biomedical Shape Memory Alloy. <i>Materials Science Forum</i> , <b>2010</b> , 654-656, 2150-2153	0.4	7
132	Phase Constituents of Ti-Cr-Au and Ti-Cr-Au-Zr Alloy Systems. <i>Materials Science Forum</i> , <b>2010</b> , 654-656, 2122-2125	0.4	5
131	Phase Equilibrium of the AuMn-Cu <sub>2</sub> MnGa System. <i>Advanced Materials Research</i> , <b>2010</b> , 89-91, 574-579	0.5	
130	Compression Behavior and Texture Development of Polymer Matrix Composites Based on NiMnGa Ferromagnetic Shape Memory Alloy Particles. <i>Materials Science Forum</i> , <b>2010</b> , 654-656, 2103-2106	0.4	3
129	Effect of Carbon Addition of Shape Memory Properties of TiNb Alloys. <i>Materials Science Forum</i> , <b>2010</b> , 638-642, 2046-2051	0.4	6
128	Phase Constitution and Mechanical Properties of Ti-(Cr, Mn)-Sn Biomedical Alloys. <i>Materials Science Forum</i> , <b>2010</b> , 654-656, 2118-2121	0.4	23
127	Phase Constitution and Mechanical Property of Ti-Cr and Ti-Cr-Sn Alloys Containing 3D Transition Metal Elements. <i>Advanced Materials Research</i> , <b>2010</b> , 89-91, 307-312	0.5	6

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125	Effect of Nitrogen Addition on Mechanical Property of Ti-Cr-Sn Alloy. <i>Materials Science Forum</i> , <b>2010</b> , 654-656, 2126-2129	0.4	4
124	Antiphase boundary-like stacking fault in $\beta$ -martensite of disordered crystal structure in Titanium shape memory alloy. <i>Philosophical Magazine</i> , <b>2010</b> , 90, 3475-3498	1.6	44
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110	Orthodontic Tooth Movement in Rats Using Ni-Free Ti-Based Shape Memory Alloy Wire. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>2008</b> , 72, 503-509	0.4	
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103	Mechanical Properties of Al-5.7wt% Ni Eutectic Alloy Severely Deformed by Equal-Channel Angular Pressing. <i>Materials Science Forum</i> , <b>2007</b> , 539-543, 2916-2921	0.4	
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100	Damping Capacity of Ti-Nb-Al Shape Memory $\beta$ -Titanium Alloy with {001} $\beta$ Texture. <i>Materials Transactions</i> , <b>2007</b> , 48, 395-399	1.3	7
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98	Effect of Cu Addition on Shape Memory Behavior of Ti-18 mol%Nb Alloys. <i>Materials Transactions</i> , <b>2007</b> , 48, 414-421	1.3	18
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45	Mechanical Properties and Shape Memory Behavior of Ti-Nb Alloys. <i>Materials Transactions</i> , <b>2004</b> , 45, 2443-2448	1.3	268
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3	Estimation of the Vacancy Properties in Ordered Ni3Al Alloys by Cluster Variation Method. <i>Materials Transactions, JIM</i> , <b>1992</b> , 33, 698-705		9
2	Antiphase Boundary Like Defect Inside $\beta$ -Martensite in Ti-Nb-Al Shape Memory Alloy <b>335-340</b>		
1	Improvement of Mechanical and Shape Memory Properties of Ti-50Pt High Temperature Shape Memory Alloys by Addition of Group IV Elements <b>949-958</b>		4



