

# Shuji Hanada

## List of Publications by Citations

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#	Paper	IF	Citations
240	Mechanical properties of porous titanium compacts prepared by powder sintering. <i>Scripta Materialia</i> , <b>2003</b> , 49, 1197-1202	5.6	440
239	Beta TiNbSn Alloys with Low Young's Modulus and High Strength. <i>Materials Transactions</i> , <b>2005</b> , 46, 1070-1078	1.3	249
238	Effect of Heat Treatment and Sn Content on Superelasticity in Biocompatible TiNbSn Alloys. <i>Materials Transactions</i> , <b>2002</b> , 43, 2978-2983	1.3	233
237	Beta Ti Alloys with Low Young's Modulus. <i>Materials Transactions</i> , <b>2004</b> , 45, 2776-2779	1.3	220
236	The bone tissue compatibility of a new Ti-Nb-Sn alloy with a low Young's modulus. <i>Acta Biomaterialia</i> , <b>2011</b> , 7, 2320-6	10.8	152
235	Transmission electron microscopic observations of mechanical twinning in metastable beta titanium alloys. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , <b>1986</b> , 17, 1409-1420		151
234	Microstructures and mechanical properties of metastable $\beta$ -TiNbSn alloys cold rolled and heat treated. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 439, 146-155	5.7	140
233	Microstructure and room temperature fracture toughness of Nbss/Nb5Si3 in situ composites. <i>Intermetallics</i> , <b>2001</b> , 9, 827-834	3.5	115
232	Deformation characteristics in $\beta$ phase Ti-Nb alloys. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , <b>1985</b> , 16, 789-795		101
231	Grain boundary fracture of L12 type intermetallic compound Ni3Al. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , <b>1985</b> , 16, 441-443		97
230	Oxidation behavior of Mo5SiB2-based alloy at elevated temperatures. <i>Intermetallics</i> , <b>2002</b> , 10, 407-414	3.5	91
229	Microstructures and Mechanical Properties of Porous Titanium Compacts Prepared by Powder Sintering. <i>Materials Transactions</i> , <b>2002</b> , 43, 443-446	1.3	87
228	Slip Modes in B2-Type Intermetallic Alloys. <i>Materials Transactions, JIM</i> , <b>1990</b> , 31, 435-442		86
227	Application of the selected area channeling pattern method to the study of intergranular fracture in Ni3Al. <i>Acta Metallurgica</i> , <b>1986</b> , 34, 13-21		85
226	Microstructure and high temperature strength at 1773 K of Nbss/Nb5Si3 composites alloyed with molybdenum. <i>Intermetallics</i> , <b>2002</b> , 10, 625-634	3.5	84
225	Fabrication of pure Al/MgTi alloy clad plate and its mechanical properties. <i>Journal of Materials Processing Technology</i> , <b>2005</b> , 169, 9-15	5.3	81
224	Deformability improvement in C15 NbCr2 intermetallics by addition of ternary elements. <i>Acta Materialia</i> , <b>1996</b> , 44, 669-674	8.4	78

223	The synergic effects of Sc and Zr on the microstructure and mechanical properties of AlSiMg alloy. <i>Materials and Design</i> , <b>2015</b> , 88, 485-492	8.1	76
222	The effect of scandium addition on microstructure and mechanical properties of AlSiMg alloy: A multi-refinement modifier. <i>Materials Characterization</i> , <b>2015</b> , 110, 160-169	3.9	75
221	Yielding and plastic flow behavior of B2-type Fe-39.5 mol.% Al single crystals in compression. <i>Acta Metallurgica Et Materialia</i> , <b>1995</b> , 43, 4141-4151		74
220	Martensite transformation temperatures and mechanical properties of ternary NiTi alloys with offstoichiometric compositions. <i>Intermetallics</i> , <b>1998</b> , 6, 291-301	3.5	72
219	Effect of Zr, Sn and Al Additions on Deformation Mode and Beta Phase Stability of Metastable Beta Ti Alloys.. <i>ISIJ International</i> , <b>1991</b> , 31, 807-813	1.7	67
218	Deformation behaviour of retained $\beta$ phase in eutectoid Ti-Cr alloys. <i>Journal of Materials Science</i> , <b>1986</b> , 21, 4131-4139	4.3	67
217	High temperature strength, fracture toughness and oxidation resistance of NbSiAlTi multiphase alloys. <i>Science and Technology of Advanced Materials</i> , <b>2002</b> , 3, 145-156	7.1	65
216	Effects of Cu content and Cu/Mg ratio on the microstructure and mechanical properties of AlSiCuMg alloys. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 649, 291-296	5.7	64
215	High-temperature strength and room-temperature toughness of NbWSiB alloys prepared by arc-melting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2004</b> , 364, 151-158	5.3	62
214	Mechanical properties of As-cast and directionally solidified Nb-Mo-W-Ti-Si in-situ composites at high temperatures. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2003</b> , 34, 85-94	2.3	62
213	Composition dependence of young's modulus in Ti-V, Ti-Nb, and Ti-V-Sn alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2006</b> , 37, 3239-3249	2.3	59
212	Microstructure and room temperature deformation of Nbss/Nb5Si3 in situ composites alloyed with Mo. <i>Intermetallics</i> , <b>2001</b> , 9, 521-527	3.5	58
211	Effect of stress-induced $\beta$ martensite on Young's modulus of TiB3.6Nb4Sn alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 588, 403-410	5.3	56
210	$\beta$ Martensite TiVSn alloys with low Young's modulus and high strength. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 448, 39-48	5.3	54
209	Mechanical properties and microstructures of Ti-25Nb-11Sn ternary alloy for biomedical applications. <i>Materials Science and Engineering C</i> , <b>2013</b> , 33, 1629-35	8.3	52
208	Mechanical properties and fracture behavior of an NbSS/Nb5Si3 in-situ composite modified by Mo and Hf alloying. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2004</b> , 372, 137-144	5.3	52
207	Deformation of Fe3Al single crystals at high temperatures. <i>Scripta Metallurgica</i> , <b>1981</b> , 15, 1345-1348		52
206	Effect of Plastic Deformation Modes on Tensile Properties of Beta Titanium Alloys. <i>Transactions of the Japan Institute of Metals</i> , <b>1986</b> , 27, 496-503		50

205	Microstructure and oxidation resistance of a plasma sprayed Mo <sub>5</sub> Si <sub>3</sub> B multiphase alloy coating. <i>Intermetallics</i> , <b>2003</b> , 11, 735-742	3.5	49
204	Mechanical properties of porous Ti <sub>50</sub> Mo <sub>30</sub> Zr <sub>10</sub> Al compacts prepared by powder sintering. <i>Materials Science and Engineering C</i> , <b>2005</b> , 25, 330-335	8.3	49
203	Effect of carbon on microstructure and high-temperature strength of Nb <sub>3</sub> Mo <sub>2</sub> Ti <sub>2</sub> Si in situ composites prepared by arc-melting and directional solidification. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2003</b> , 343, 282-289	5.3	48
202	Deformation of metastable betaTi-15Mo-5Zr alloy single crystals. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , <b>1980</b> , 11, 1447-1452		46
201	Superplastic deformation in Ni <sub>3</sub> (Si, Ti) alloys. <i>Acta Metallurgica Et Materialia</i> , <b>1992</b> , 40, 1895-1906		45
200	Superplasticity in a Recrystallized Ni <sub>3</sub> Al Polycrystal Doped with Boron. <i>Materials Transactions, JIM</i> , <b>1989</b> , 30, 77-85		45
199	Ductilization of Ni <sub>3</sub> Al by macroalloying with Pd. <i>Acta Metallurgica Et Materialia</i> , <b>1991</b> , 39, 1799-1805		45
198	Tensile properties of B2-type Fe-39mol%Al single crystals at elevated temperatures. <i>Intermetallics</i> , <b>1996</b> , 4, 159-168	3.5	44
197	High temperature strength of Nb <sub>3</sub> Al-base alloys. <i>Intermetallics</i> , <b>1998</b> , 6, 735-739	3.5	43
196	Potential of IrAl base alloys as ultrahigh-temperature smart coatings. <i>Intermetallics</i> , <b>2000</b> , 8, 1081-1090	3.5	43
195	Relation between ductility and grain boundary character distributions in Ni <sub>3</sub> Al. <i>Acta Metallurgica Et Materialia</i> , <b>1994</b> , 42, 1733-1738		43
194	Site occupation determination of Pd in Ni <sub>3</sub> Al by ALCHEMI. <i>Acta Metallurgica Et Materialia</i> , <b>1991</b> , 39, 13-18		42
193	Toughness and strength characteristics of Nb-W-Si ternary alloys prepared by Arc melting. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2003</b> , 34, 2861-2871	2.3	40
192	Self-accomodation and morphology of 14M (7R) martensites in an Ni <sub>3</sub> 70at.%Al alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1994</b> , 189, 191-199	5.3	37
191	Effect of Alloy Chemistry on the High Temperature Strengths and Room Temperature Fracture Toughness of Advanced Nb-Based Alloys. <i>Materials Transactions</i> , <b>2004</b> , 45, 493-501	1.3	36
190	The Mode of Plastic Deformation of $\beta$ -Ti-V Alloys. <i>Transactions of the Japan Institute of Metals</i> , <b>1982</b> , 23, 507-517		36
189	Niobium aluminides. <i>Current Opinion in Solid State and Materials Science</i> , <b>1997</b> , 2, 279-283	12	35
188	Influences of Al content and secondary phase of Mo <sub>5</sub> (Si,Al) <sub>3</sub> on the oxidation resistance of Al-rich Mo(Si,Al) <sub>2</sub> -base composites. <i>Intermetallics</i> , <b>2003</b> , 11, 721-733	3.5	35

187	Microstructures and bond strengths of plasma-sprayed hydroxyapatite coatings on porous titanium substrates. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2005</b> , 16, 635-40	4.5	35
186	Synthesis of MoBiB in situ composites by mechanical alloying. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 434-435, 420-423	5.7	34
185	Microstructure and mechanical properties of Al <sub>2</sub> O <sub>3</sub> /Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> /ZrO <sub>2</sub> ternary eutectic materials. <i>Journal of the European Ceramic Society</i> , <b>2005</b> , 25, 1411-1417	6	33
184	Effect of APB type on tensile properties of Cr added Fe <sub>3</sub> Al with D0 <sub>3</sub> structure. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1995</b> , 194, 53-61	5.3	33
183	Environmental embrittlement and grain boundary segregation of boron in Ni <sub>3</sub> (Si,Ti) and Co <sub>3</sub> Ti alloys. <i>Scripta Metallurgica Et Materialia</i> , <b>1993</b> , 29, 1587-1591		33
182	Improvement in ductility of Ni <sub>3</sub> Al by Ti former doping. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1992</b> , 152, 108-113	5.3	33
181	Effect of alloy composition on microstructure and high temperature properties of NbZrTi ternary alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2003</b> , 341, 282-288	5.3	32
180	Effect of Ti and Ti former doping on ductility of Ni <sub>3</sub> Al. <i>Scripta Metallurgica Et Materialia</i> , <b>1991</b> , 25, 303-307		31
179	Orientation Dependence of Twinning in Commercially Pure Titanium. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>1990</b> , 54, 976-984	0.4	30
178	Recrystallization in cold-rolled pure nickel. <i>Acta Metallurgica</i> , <b>1988</b> , 36, 403-412		30
177	Composition Dependence of Young's Modulus in Beta Titanium Binary Alloys. <i>Materials Science Forum</i> , <b>2003</b> , 426-432, 3103-3108	0.4	29
176	Effects of substitution of Al for Si on the lattice variations and thermal expansion of Mo(Si,Al) <sub>2</sub> . <i>Intermetallics</i> , <b>2004</b> , 12, 33-41	3.5	29
175	Environmental embrittlement of Ti titanium aluminide. <i>Journal of Materials Research</i> , <b>1992</b> , 7, 2739-2746	2.5	29
174	Plasticity of β-brass Single Crystals at Low Temperatures. <i>Transactions of the Japan Institute of Metals</i> , <b>1975</b> , 16, 453-461		29
173	High strength aluminum cast alloy: A Sc modification of a standard AlSiMg cast alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 604, 122-126	5.3	28
172	Effect of carbon on the tensile properties of NbMoW alloys at 1773 K. <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 333, 170-178	5.7	28
171	Transmission electron microscopic observation of thermally introduced planar faults in Fe-35 mol.% Al alloys. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1996</b> , 73, 443-456		28
170	Vacancy clustering and relaxation behavior in rapidly solidified B2 FeAl ribbons. <i>Acta Materialia</i> , <b>2005</b> , 53, 3751-3764	8.4	27

169	Determination of site occupation probability of Cu in Ni <sub>3</sub> Al by atom-probe field ion microscopy. <i>Acta Metallurgica Et Materialia</i> , <b>1992</b> , 40, 419-425		27
168	Fabrication of a high-performance hip prosthetic stem using $\beta$ -Ti-33.6Nb-4Sn. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2014</b> , 30, 140-9	4.1	26
167	Photo-induced properties of anodic oxide films on Ti6Al4V. <i>Thin Solid Films</i> , <b>2012</b> , 520, 4956-4964	2.2	26
166	Improving stress shielding following total hip arthroplasty by using a femoral stem made of $\beta$ -type Ti-33.6Nb-4Sn with a Young's modulus gradation. <i>Journal of Biomechanics</i> , <b>2017</b> , 63, 135-143	2.9	26
165	Microstructures and Mechanical Properties of Porosity-Graded Pure Titanium Compacts. <i>Materials Transactions</i> , <b>2003</b> , 44, 657-660	1.3	26
164	The temperature and orientation dependence of tensile deformation and fracture in NiAl single crystals. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1992</b> , 149, 183-193	5.3	26
163	Effect of Sc and Sr on the Eutectic Si Morphology and Tensile Properties of Al-Si-Mg Alloy. <i>Journal of Materials Engineering and Performance</i> , <b>2017</b> , 26, 1605-1613	1.6	25
162	Synthesis and high temperature oxidation of Mo-Si-B-O pseudo in situ composites. <i>Science and Technology of Advanced Materials</i> , <b>2002</b> , 3, 181-192	7.1	25
161	Stress asymmetry of stoichiometric NiAl single crystals. <i>Acta Metallurgica Et Materialia</i> , <b>1993</b> , 41, 1021-1031		25
160	Effect of Frozen-in Vacancies on Hardness and Tensile Properties of Polycrystalline B2 FeAl. <i>Materials Transactions, JIM</i> , <b>1994</b> , 35, 51-57		25
159	Microstructure and mechanical properties of Nb/Nb <sub>5</sub> Si <sub>3</sub> in situ composites in Nb <sub>50</sub> Mo <sub>50</sub> Bi and Nb <sub>50</sub> W <sub>50</sub> Bi systems <b>2004</b> , 386, 375-375		25
158	Effect of swaging on Young's modulus of $\beta$ -Ti-33.6Nb-4Sn alloy. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2014</b> , 32, 310-320	4.1	24
157	In-vitro biomechanical evaluation of stress shielding and initial stability of a low-modulus hip stem made of $\beta$ -type Ti-33.6Nb-4Sn alloy. <i>Medical Engineering and Physics</i> , <b>2014</b> , 36, 1665-71	2.4	24
156	Effect of composition on hydrogen absorbing properties in binary TiMn <sub>2</sub> based alloys. <i>Journal of Alloys and Compounds</i> , <b>2003</b> , 352, 210-217	5.7	24
155	Determination of density and vacancy concentration in rapidly solidified FeAl ribbons. <i>Intermetallics</i> , <b>2003</b> , 11, 707-711	3.5	24
154	Solid-Solution Strengthening and High-Temperature Compressive Strength of Nb-X Alloys (X=Ta, V, Mo and W). <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>2000</b> , 64, 559-565	0.4	24
153	Anomalous elongation behavior of stoichiometric NiAl single crystals at intermediate temperatures. <i>Acta Metallurgica Et Materialia</i> , <b>1993</b> , 41, 1009-1020		24
152	Crystallography of Stress-Induced B2 $\rightarrow$ R Martensitic Transformation in a Ni-37.0 at%Al Alloy. <i>Materials Transactions, JIM</i> , <b>1992</b> , 33, 282-288		24

151	Effect of Low Temperature Aging on Superelastic Behavior in Biocompatible $\beta$ ; TiNbSn Alloy. <i>Materials Transactions</i> , <b>2007</b> , 48, 3007-3013	1.3	23
150	Strength and fracture of single-crystalline Ni <sub>3</sub> (Al,Ti) and Ni <sub>3</sub> (Al,Ta) intermetallic compounds at 290 K. <i>Acta Metallurgica</i> , <b>1988</b> , 36, 2615-2626		23
149	Anisotropy of Young's modulus and tensile properties in cold rolled $\beta$ martensite TiNbSn alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 486, 503-510	5.3	22
148	Phase Equilibria in Nb–Mo-Rich Zone of the Nb–Si–Mo Ternary System. <i>Materials Transactions, JIM</i> , <b>2000</b> , 41, 1329-1336		22
147	High temperature mechanical properties of Cr <sub>2</sub> Nb-based intermetallics. <i>Journal of Materials Research</i> , <b>1993</b> , 8, 3069-3077	2.5	22
146	Plastic deformation mode of retained $\beta$ phase in eutectoid Ti-Fe alloys. <i>Journal of Materials Science</i> , <b>1986</b> , 21, 866-870	4.3	22
145	Deformation behavior of Mo <sub>5</sub> Si <sub>3</sub> single crystal at high temperatures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2002</b> , 329-331, 228-234	5.3	21
144	Environmental embrittlement and grain boundary segregation of boron and carbon in Ni <sub>3</sub> (Si, Ti) alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1995</b> , 192-193, 407-412	5.3	21
143	Deformation twinning systems of D019 structured Ti-34mol% Al. <i>Scripta Metallurgica Et Materialia</i> , <b>1995</b> , 33, 509-514		21
142	Suppression of environmental embrittlement of Ni <sub>3</sub> (Si,Ti) alloys by shot peening. <i>Scripta Materialia</i> , <b>1996</b> , 34, 1131-1138	5.6	21
141	Effect of Grain Size on Strength, Ductility and Fracture in Recrystallized Ni <sub>3</sub> Al Doped with Boron. <i>Transactions of the Japan Institute of Metals</i> , <b>1988</b> , 29, 274-283		21
140	Laminates based on an iron aluminide intermetallic alloy and a CrMo steel. <i>Intermetallics</i> , <b>2005</b> , 13, 717-726		20
139	Microstructures and fracture toughness of directionally solidified Mo-ZrC eutectic composites. <i>Science and Technology of Advanced Materials</i> , <b>2002</b> , 3, 137-143	7.1	20
138	High temperature strength and room temperature fracture toughness of Nb–Mo refractory alloys with and without carbide dispersoids. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2003</b> , 346, 65-74	5.3	20
137	Microstructure and properties of iron aluminum alloy/CrMo steel composite prepared by clad rolling. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 379, 272-279	5.7	20
136	On lattice defects and strength anomaly of B2-type FeAl. <i>Intermetallics</i> , <b>1996</b> , 4, S159-S169	3.5	20
135	A new fabrication process of TiNi shape memory wire. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1993</b> , 161, 91-96	5.3	20
134	{111} cracking of Ni <sub>3</sub> Al. <i>Scripta Metallurgica</i> , <b>1987</b> , 21, 277-281		20

133	Microstructure and formation mechanism of grain-refining particles in Al-Ti-C-RE grain refiners. <i>Journal of Rare Earths</i> , <b>2015</b> , 33, 553-560	3.7	19
132	Effects of Al-Ti-B-RE grain refiner on microstructure and mechanical properties of Al-7.0Si-0.55Mg alloy. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2014</b> , 24, 2244-2250	3.3	19
131	Photo-induced characteristics of a TiNbSn biometallic alloy with low Young's modulus. <i>Thin Solid Films</i> , <b>2010</b> , 519, 276-283	2.2	19
130	In-Situ Transmission Electron Microscopy Observation on the Phase Transformation of Ti-Nb-Sn Shape Memory Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2008</b> , 39, 2820-2829	2.3	19
129	Synthesis of Nb/Nb <sub>5</sub> Si <sub>3</sub> in-situ Composites by Mechanical Milling and Reactive Spark Plasma Sintering. <i>Materials Transactions, JIM</i> , <b>2000</b> , 41, 719-726		19
128	A model for strength anomaly in IVa-VIII B2 ordered intermetallics. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1995</b> , 71, 347-358		19
127	Ductile-phase toughening and fatigue crack growth in Nb <sub>3</sub> Al base alloys. <i>Scripta Materialia</i> , <b>1996</b> , 34, 999-1003	5.6	19
126	Effects of Boron and Carbon Additions on Environmental Embrittlement of a Ni <sub>3</sub> (Si, Ti) Alloy at Ambient Temperature. <i>Materials Transactions, JIM</i> , <b>1995</b> , 36, 30-35		19
125	The boron effect on the superplastic deformation of Ni <sub>3</sub> (Si,Ti) alloys. <i>Scripta Metallurgica Et Materialia</i> , <b>1991</b> , 25, 889-894		19
124	Effect of hot extrusion and subsequent T6 treatment on the microstructure evolution and tensile properties of an Al-6Si-2Cu-0.5Mg alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 710, 102-110	5.3	18
123	A new concept of hip joint stem and its fabrication using metastable TiNbSn alloy. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 536, S582-S585	5.7	18
122	Corrosion behavior of iron/aluminum alloys and its composite steel in sulfuric acid. <i>Corrosion Science</i> , <b>2006</b> , 48, 829-839	6.8	18
121	Microstructure and high-temperature deformation of the C15 NbCr <sub>2</sub> -based Laves intermetallics in NbCr <sub>2</sub> alloy system. <i>Journal of Materials Research</i> , <b>1995</b> , 10, 2463-2470	2.5	18
120	Formation mechanisms of SISF-bounding dislocations in cold-rolled Ni <sub>3</sub> Al. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1994</b> , 69, 751-765		18
119	Flow behavior and microstructure of Co <sub>3</sub> Ti intermetallic alloy during superplastic deformation. <i>Acta Materialia</i> , <b>1998</b> , 46, 3593-3604	8.4	17
118	Effect of microstructure on hydrogen pulverization of Nb <sub>3</sub> AlNb two phase alloys. <i>Intermetallics</i> , <b>1998</b> , 6, 61-69	3.5	17
117	XPS Study of Corrosion Behavior of Ti-18Nb-4Sn Shape Memory Alloy in a 0.05 mass% HCl Solution. <i>Materials Transactions</i> , <b>2003</b> , 44, 1405-1411	1.3	17
116	Tensile property and fracture behavior of hot-rolled CoTi intermetallic compound. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 302, 215-221	5.3	17



115	Mechanical Properties of Nb-18Si-5Mo-5HF-2C In-Situ Composite Prepared by Arc-Casting Method. <i>Materials Transactions</i> , <b>2002</b> , 43, 2201-2204	1.3	17
114	Nanoporous Surfaces of FeAl Formed by Vacancy Clustering. <i>Materials Transactions</i> , <b>2002</b> , 43, 2897-2902	1.3	17
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112	Microstructure control and compressive strength of 10mol% Ti-bearing Nb <sub>3</sub> Al/Nbss in-situ composites. <i>Intermetallics</i> , <b>1999</b> , 7, 807-819	3.5	17
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108	Slip band propagation and slip vector transition in B2 FeAl single crystals. <i>Acta Materialia</i> , <b>1998</b> , 46, 5768-5776	5.7	16
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99	Orientation dependence of deformation and fracture behavior in Ni <sub>3</sub> (Al, Ti) single crystals at 973 K. <i>Acta Metallurgica</i> , <b>1988</b> , 36, 2967-2978		15
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