

Kyosuke Kishida

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.

180
papers

3,054
citations

31
h-index

48
g-index

186
ext. papers

3,403
ext. citations

4
avg, IF

5.21
L-index

#	Paper	IF	Citations
180	Proposing the Concept of Plaston and Strategy to Manage Both High Strength and Large Ductility in Advanced Structural Materials, on the Basis of Unique Mechanical Properties of Bulk Nanostructured Metals 2022 , 3-34		1
179	PlastonElemental Deformation Process Involving Cooperative Atom Motion 2022 , 119-131		
178	Direct observation of zonal dislocation in complex materials by atomic-resolution scanning transmission electron microscopy. <i>Acta Materialia</i> , 2022 , 117756	8.4	4
177	Plastic deformation of bulk and micropillar single crystals of Mo ₅ Si ₃ with the tetragonal D8 structure. <i>International Journal of Plasticity</i> , 2022 , 103339	7.6	
176	Micropillar compression deformation of single crystals of TiNbSi with the tetragonal D8 structure. <i>Science and Technology of Advanced Materials</i> , 2021 , 21, 805-816	7.1	4
175	Room-temperature deformation of single crystals of transition-metal disilicides (TMSi ₂) with the C11b (TM = Mo) and C40 (TM = V, Cr, Nb and Ta) structures investigated by micropillar compression. <i>Acta Materialia</i> , 2021 , 223, 117468	8.4	4
174	Tensile and compressive plastic deformation behavior of medium-entropy Cr-Co-Ni single crystals from cryogenic to elevated temperatures. <i>International Journal of Plasticity</i> , 2021 , 148, 103144	7.6	4
173	Plastic deformation of single crystals of CrB ₂ , TiB ₂ and ZrB ₂ with the hexagonal AlB ₂ structure. <i>Acta Materialia</i> , 2021 , 211, 116857	8.4	4
172	Plastic deformation of single crystals of the equiatomic CrMnBeCoNi high-entropy alloy in tension and compression from 10K to 1273K. <i>Acta Materialia</i> , 2021 , 203, 116454	8.4	21
171	Correlative atom probe tomography and scanning transmission electron microscopy reveal growth sequence of LPSO phase in Mg alloy containing Al and Gd. <i>Scientific Reports</i> , 2021 , 11, 3073	4.9	2
170	Room-temperature deformation of single crystals of ZrB and TiB with the hexagonal AlB structure investigated by micropillar compression. <i>Scientific Reports</i> , 2021 , 11, 14265	4.9	2
169	Experimental evaluation of critical resolved shear stress for the first-order pyramidal c + a slip in commercially pure Ti by micropillar compression method. <i>Acta Materialia</i> , 2020 , 196, 168-174	8.4	23
168	Room temperature deformation of 6H-SiC single crystals investigated by micropillar compression. <i>Acta Materialia</i> , 2020 , 187, 19-28	8.4	14
167	Strategy for managing both high strength and large ductility in structural materialsSequential nucleation of different deformation modes based on a concept of plaston. <i>Scripta Materialia</i> , 2020 , 181, 35-42	5.6	27
166	Pattern formation mechanism of directionally-solidified MoSi ₂ /Mo ₅ Si ₃ eutectic by phase-field simulation. <i>Intermetallics</i> , 2020 , 116, 106590	3.5	8
165	Room temperature deformation of single crystals of TiSi with the hexagonal D8 structure investigated by micropillar compression tests. <i>Scientific Reports</i> , 2020 , 10, 17983	4.9	8
164	Microstructure and mechanical properties of a MoSi ₂ -Mo ₅ Si ₃ eutectic composite processed by laser surface melting. <i>Materials Characterization</i> , 2019 , 148, 162-170	3.9	12

163	Anisotropic plastic deformation of single crystals of the MAX phase compound Ti ₃ SiC ₂ investigated by micropillar compression. <i>Acta Materialia</i> , 2018 , 161, 161-170	8.4	39
162	Micropillar compression deformation of single crystals of Mo ₅ SiB ₂ with the tetragonal D8l structure. <i>Acta Materialia</i> , 2018 , 159, 416-428	8.4	16
161	On the influence of crystallography and dendritic microstructure on micro shear behavior of single crystal Ni-based superalloys. <i>Acta Materialia</i> , 2018 , 160, 173-184	8.4	9
160	Electrochemical property of solid solutions formed in (La,Sr)(Co,Fe)O ₃ //cathode/doped-CeO ₂ interlayer/Y ₂ O ₃ /ZrO ₂ electrolyte system during operation of solid oxide fuel cells. <i>Solid State Ionics</i> , 2017 , 300, 135-139	3.3	17
159	Effects of cerium on the hydrogen absorption-desorption properties of rare earth-Mg-Ni hydrogen-absorbing alloys. <i>Journal of Power Sources</i> , 2017 , 346, 56-62	8.9	44
158	Microstructures and hydrogen absorption-desorption behavior of an A2B7-based La-Mg-Ni alloy. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 22159-22166	6.7	6
157	Specimen size and shape dependent yield strength in micropillar compression deformation of Mo single crystals. <i>International Journal of Plasticity</i> , 2017 , 92, 45-56	7.6	29
156	Function of aluminum in crystal structure of rare earth-Mg-Ni hydrogen-absorbing alloy and deterioration mechanism of Nd 0.9 Mg 0.1 Ni 3.5 and Nd 0.9 Mg 0.1 Ni 3.3 Al 0.2 alloys. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 11574-11583	6.7	15
155	A formation criterion for Order-Disorder (OD) phases of the Long-Period Stacking Order (LPSO)-type in Mg-Al-RE (Rare Earth) Ternary Systems. <i>Scientific Reports</i> , 2017 , 7, 12294	4.9	15
154	Effects of lattice misfit on plastic deformation behavior of single-crystalline micropillars of Ni-based superalloys. <i>Acta Materialia</i> , 2017 , 138, 119-130	8.4	26
153	Orientation relationships, interface structures, and mechanical properties of directionally solidified MoSi ₂ /Mo ₅ Si ₃ /Mo ₅ Si ₃ C composites. <i>Intermetallics</i> , 2016 , 73, 12-20	3.5	12
152	Microstructure and fracture toughness in boron added NbSi ₂ (C40)/MoSi ₂ (C11b) duplex crystals. <i>Scripta Materialia</i> , 2016 , 113, 236-240	5.6	25
151	Degradation factors in (La,Sr)(Co,Fe)O ₃ - cathode/Sm ₂ O ₃ /CeO ₂ interlayer/Y ₂ O ₃ /ZrO ₂ electrolyte system during operation of solid oxide fuel cells. <i>Journal of Power Sources</i> , 2016 , 312, 80-85	8.9	32
150	Plastic deformation of directionally solidified ingots of binary and some ternary MoSi/MoSi eutectic composites. <i>Science and Technology of Advanced Materials</i> , 2016 , 17, 517-529	7.1	10
149	Mechanisms of lamellar structure formation and Cr interfacial segregation in C11b-MoSi ₂ /C40-NbSi ₂ dual phase silicide verified by a phase-field simulation incorporating elastic inhomogeneity. <i>Computational Materials Science</i> , 2015 , 108, 358-366	3.2	6
148	Crystal structures of highly-ordered long-period stacking-ordered phases with 18R, 14H and 10H-type stacking sequences in the Mg ₂ Zn ₃ system. <i>Acta Materialia</i> , 2015 , 99, 228-239	8.4	105
147	Data in support of crystal structures of highly-ordered long-period stacking-ordered phases with 18R, 14H and 10H-type stacking sequences in the Mg-Zn-Y system. <i>Data in Brief</i> , 2015 , 5, 314-20	1.2	7
146	Microstructures and Mechanical Properties of MoSi ₂ / Mo ₅ Si ₃ / Mo ₅ Si ₃ C Ternary Eutectic Composite. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1760, 169		3

145	Micropillar Compression of MoSi ₂ Single Crystals. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1760, 79		8
144	New crystal structure of Nd ₂ Ni ₇ formed on the basis of stacking of block layers. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 3023-3034	6.7	11
143	Effects of ternary additions on the microstructure and thermal stability of directionally-solidified MoSi ₂ /Mo ₅ Si ₃ eutectic composites. <i>Intermetallics</i> , 2014 , 52, 72-85	3.5	21
142	Slip System Analysis in the Cold Rolling of a Ni ₃ Al Single Crystal. <i>Materials Science Forum</i> , 2014 , 783-786, 1111-1116	0.4	1
141	Substantial appearance of origin of conductivity decrease in Y-doped BaZrO ₃ due to Ba-deficiency. <i>RSC Advances</i> , 2014 , 4, 31589	3.7	13
140	Deformation twinning in a MgAlCd ternary alloy containing precipitates with a long-period stacking-ordered (LPSO) structure. <i>Scripta Materialia</i> , 2014 , 89, 25-28	5.6	29
139	Mechanisms of Cr segregation to C11b/C40 lamellar interface in (Mo,Nb)Si ₂ duplex silicide: A phase-field study to bridge experimental and first-principles investigations. <i>Intermetallics</i> , 2014 , 54, 232-241	3.5	9
138	Interface Migration with Segregation in MoSi ₂ -Based Lamellar Alloy Simulated by Phase-Field Method. <i>Advanced Materials Research</i> , 2014 , 922, 832-837	0.5	2
137	Crystal Structure Evolution of La ₂ Ni ₇ during Hydrogenation. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1516, 183-188		2
136	A comprehensive understanding of structure and site occupancy of Y in Y-doped BaZrO ₃ . <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3027	13	50
135	Evolution of lattice defects, disordered/ordered phase transformations and mechanical properties in NiAlTi intermetallics by high-pressure torsion. <i>Journal of Alloys and Compounds</i> , 2013 , 563, 221-228	5.7	18
134	The most stable crystal structure and the formation processes of an order-disorder (OD) intermetallic phase in the MgAlCd ternary system. <i>Philosophical Magazine</i> , 2013 , 93, 2826-2846	1.6	40
133	Cr segregation at C11b/C40 interface in MoSi ₂ -based alloys: A first-principles study. <i>Intermetallics</i> , 2013 , 42, 165-169	3.5	11
132	Phase-Field Study on the Segregation Mechanism of Additive Elements in NbSi ₂ /MoSi ₂ Duplex Silicide. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1516, 145-150		2
131	Effects of Ternary Additions on the Microstructure of Directionally-Solidified MoSi ₂ /Mo ₅ Si ₃ Eutectic Composites. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1516, 189-194		3
130	Phase-Field Simulation of Lamellar Structure Formation in MoSi ₂ /NbSi ₂ Duplex Silicide. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1516, 309-315		3
129	Compression of Micro-pillars of a Long Period Stacking Ordered Phase in the Mg-Zn-Y system. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1516, 151-156		30
128	Micro-pillar Compression of Ni-base Superalloy Single Crystals. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1516, 209-214		2

127	Crystal Structures of Long-Period Stacking-Ordered Phases in the Mg-TM-RE Ternary Systems. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1516, 291-302		7
126	Plastic Deformation of Directionally-Solidified MoSi ₂ /Mo ₅ Si ₃ Eutectic Composites. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1516, 195-200		5
125	High-T _c ferromagnetic semiconductor-like behavior and unusual electrical properties in compounds with a 2×2 superstructure of the half-Heusler phase. <i>Chemistry - A European Journal</i> , 2012 , 18, 2536-42	4.8	4
124	The crystal structure of the LPSO phase of the 14H-type in the MgAlGd alloy system. <i>Intermetallics</i> , 2012 , 31, 55-64	3.5	68
123	Ultrahigh strength and high plasticity in TiAl intermetallics with bimodal grain structure and nanotwins. <i>Scripta Materialia</i> , 2012 , 67, 814-817	5.6	83
122	First-principles study on phase stability of MoSi ₂ -NbSi ₂ pseudobinary alloys. <i>Physical Review B</i> , 2012 , 85,	3.3	5
121	Direct Observation of Vacancies and Local Thermal Vibration in Thermoelectric Rhenium Silicide. <i>Applied Physics Express</i> , 2012 , 5, 035203	2.4	2
120	Synthesis of Porous Titanium with Directional Pores by Selective Laser Melting. <i>International Journal of Automation Technology</i> , 2012 , 6, 597-603	0.8	7
119	Structure Analysis of a Long Period Stacking Ordered Phase in Mg-Al-Gd Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1295, 267		10
118	Physical and Mechanical Properties of Co ₃ (Al,W) with the L1 ₂ Structure in Single and Polycrystalline Forms. <i>Key Engineering Materials</i> , 2011 , 465, 9-14	0.4	4
117	Improvement of Thermoelectric Properties of Chimney-ladder Compounds through the Introduction of PBET Interfaces. <i>Materia Japan</i> , 2011 , 50, 149-151	0.1	1
116	Enrichment of Gd and Al atoms in the quadruple close packed planes and their in-plane long-range ordering in the long period stacking-ordered phase in the MgAlGd system. <i>Acta Materialia</i> , 2011 , 59, 7287-7299	8.4	172
115	Direct observation of an ordered arrangement of vacancies and large local thermal vibration in rhenium silicide by Cs-corrected STEM. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1295, 397		
114	Mechanical Properties of Cr ₅ Si ₃ with the D8m Structure. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1295, 213		4
113	Compression of Micropillars of TiAl Coexisting with Ti ₃ Al. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1295, 201		12
112	Mechanical Properties of the Ternary L1 ₂ Compound Co ₃ (Al,W) in Single and Polycrystalline Forms. <i>Advanced Materials Research</i> , 2011 , 278, 1-6	0.5	6
111	Morphology change of η precipitates in γ two-phase microstructure in Co-based superalloys by higher-order alloying. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1295, 423		5
110	Plastic deformation of polycrystals of Co ₃ (Al,W) with the L1 ₂ structure. <i>Philosophical Magazine</i> , 2011 , 91, 3667-3684	1.6	70

109	Physical and Mechanical Properties of Single Crystals of Co-Al-W Based Alloys with L12 Single-Phase and L12/fcc Two-Phase Microstructures. <i>Materials Science Forum</i> , 2010 , 638-642, 1342-1347	9.4	6
108	Pressure induced phase transformation of Ba ₈ Ga ₁₆ Ge ₃₀ clathrate studied by x-ray diffraction and Raman spectroscopy. <i>Journal of Applied Physics</i> , 2010 , 107, 013517	2.5	12
107	Microstructure and electrochemical properties of the HT-LiCoO ₂ /La _{2/3-x} Li _{3x} TiO ₃ solid electrolyte interfaces. <i>Journal of Materials Research</i> , 2010 , 25, 1583-1587	2.5	10
106	Effects of quaternary alloying elements on the β solvus temperature of CoAlW based alloys with fcc/L12 two-phase microstructures. <i>Journal of Alloys and Compounds</i> , 2010 , 508, 71-78	5.7	152
105	Plastic deformation of single crystals of Ti ₅ Si ₃ with the hexagonal D88 structure. <i>Acta Materialia</i> , 2010 , 58, 846-857	8.4	47
104	Structural and Thermoelectric Properties of Chimney-Ladder Compounds in the Ru-Mn-Si System. <i>Journal of Electronic Materials</i> , 2010 , 39, 1640-1644	1.9	7
103	Constrained Deformation of TiAl PST Crystals. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1225, 30701		
102	Improvement of the Thermoelectric Properties of the Chimney-Ladder Compounds in the Ru-Mn-Si System. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1218, 1		1
101	Electron diffraction of ABX ₃ perovskites with both layered ordering of A cations and tilting of BX ₆ octahedra. <i>Acta Crystallographica Section B: Structural Science</i> , 2009 , 65, 405-15		17
100	Evolution of orientation distributions of β and γ phases during creep deformation of Ni-base single crystal superalloys. <i>Acta Materialia</i> , 2009 , 57, 1078-1085	8.4	5
99	Thermoelectric properties of ternary and Al-containing quaternary Ru _{1-x} Re _x Si _y chimney-ladder compounds. <i>Acta Materialia</i> , 2009 , 57, 2010-2019	8.4	22
98	Crystal structure and thermoelectric properties of chimney-ladder compounds in the Ru ₂ Si ₃ Mn ₄ Si ₇ pseudobinary system. <i>Acta Materialia</i> , 2009 , 57, 5036-5045	8.4	48
97	Texture Development during Recrystallization and Grain Growth in Heavily Cold-rolled Intermetallics. <i>Materia Japan</i> , 2009 , 48, 452-457	0.1	1
96	Microstructures and hydrogen permeability of directionally solidified Nb ₃ Ni ₃ Ti alloys with the Nb ₃ Ni ₃ Ti eutectic microstructure. <i>Intermetallics</i> , 2008 , 16, 88-95	3.5	47
95	Tensile properties and cold rolling of binary NiAl ₂ two-phase single crystals. <i>Intermetallics</i> , 2008 , 16, 1317-1324	3.5	6
94	Improvement of Grain-Boundary Conductivity of Trivalent Cation-Doped Barium Zirconate Sintered at 1600°C by Co-doping Scandium and Yttrium. <i>Journal of the Electrochemical Society</i> , 2008 , 155, B581	3.9	42
93	Crystal Structure and Thermoelectric Properties of Mn-Substituted Ru ₂ Si ₃ with the Chimney-Ladder Structure. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1128, 50101		
92	Microstructures and Mechanical Properties of Co ₃ (Al,W) with the L12 Structure. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1128, 52601		1

91	Mechanical and Thermal Properties of Single Crystals of Some Thermoelectric Clathrate Compounds. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1128, 11101		1
90	Physical and Mechanical Properties of Single Crystals of Co-Al-W Based Alloys with L12 Single-Phase and L12/fcc Two-Phase Microstructures. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1128, 60701		1
89	Plastic Deformation Behavior of Ti ₅ Si ₃ Single Crystals. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1128, 90601		
88	Plastic Deformations in Single Crystals of FePd with the L10 Structure. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1128, 90701		1
87	Elastic instability condition of the raft structure during creep deformation in nickel-base superalloys. <i>Acta Materialia</i> , 2008 , 56, 3786-3790	8.4	8
86	Texture memory effect in heavily cold-rolled Ni ₃ Al single crystals. <i>Acta Materialia</i> , 2007 , 55, 1779-1789	8.4	5
85	Microstructure of the LiCoO ₂ (cathode)/La _{2/3} Li _x TiO ₃ (electrolyte) interface and its influences on the electrochemical properties. <i>Acta Materialia</i> , 2007 , 55, 4713-4722	8.4	18
84	Laser Spot Welding of Cold-Rolled Boron-Free Ni ₃ Al Foils. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007 , 38, 1041-1047	2.3	4
83	Variation in the Einstein Temperature of Guest Atoms in Ba-Ge-X type-III Clathrate Compounds. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1044, 1		
82	Crystal structure and thermoelectric properties of type-III clathrate compounds in the Ba ₈ Al ₁₆ Ge ₁₆ system. <i>Journal of Applied Physics</i> , 2007 , 102, 094506	2.5	16
81	Thermoelectric properties and crystal structure of type-III clathrate compounds in the Ba ₈ Al ₁₆ Ge ₁₆ system. <i>Journal of Applied Physics</i> , 2007 , 102, 034510	2.5	11
80	Effect of In additions on the thermoelectric properties of the type-I clathrate compound Ba ₈ Ga ₁₆ Ge ₃₀ . <i>Journal of Applied Physics</i> , 2007 , 101, 113525	2.5	46
79	Single-crystal elastic constants of Co ₃ (Al,W) with the L12 structure. <i>Applied Physics Letters</i> , 2007 , 91, 181907	3.4	79
78	Microstructure Evolution during Lithiation and Delithiation of Ni ₃ Sn ₂ Anode for Lithium Secondary Batteries. <i>Advanced Materials Research</i> , 2007 , 26-28, 225-228	0.5	2
77	Crystal Structure and Thermoelectric Properties of ReSi _{1.75} Based Alloys. <i>Advanced Materials Research</i> , 2007 , 26-28, 197-200	0.5	5
76	Elastic Properties of L10-Ordered Single Crystals. <i>Advanced Materials Research</i> , 2007 , 26-28, 221-224	0.5	1
75	Hydrogen Permeation Properties of Nb-Based Two-Phase Compounds. <i>Materials Science Forum</i> , 2007 , 561-565, 467-470	0.4	
74	Thermoelectric Properties of Ru ₂ Si ₃ -Based Chimney-Ladder Phases. <i>Materials Science Forum</i> , 2007 , 561-565, 463-466	0.4	4

73	Effect of Applied External Stress on Hydrogen Desorption from Metal Hydrides. <i>Advanced Materials Research</i> , 2007 , 26-28, 217-220	0.5	
72	Effect of Creep Deformation on the Crystallographic Orientation Distribution in Ni Base Superalloy. <i>Advanced Materials Research</i> , 2007 , 26-28, 213-216	0.5	1
71	Crystal Structure Variation of Ru ₂ Si ₃ Upon Alloying with Mn. <i>Advanced Materials Research</i> , 2007 , 26-28, 229-232	0.5	1
70	Defect Generation in Some Transition-Metal Silicides in Accommodating the Deviation from the Stoichiometric Compositions. <i>Materials Science Forum</i> , 2007 , 561-565, 443-446	0.4	2
69	Plastic Deformations in L10-Ordered Single Crystals with their c/a Ratios Less than Unity. <i>Materials Science Forum</i> , 2007 , 561-565, 459-462	0.4	1
68	Identification of the Chirality and Polarity of Intermetallic Compounds with the Point Groups of 23, 432, 422, and 321 by Electron Diffraction. <i>Materials Science Forum</i> , 2007 , 539-543, 1457-1462	0.4	2
67	Crystal and defect structures of La _{2/3} xLi ₃ xTiO ₃ (x ~ 0.1) produced by a melt process. <i>Journal of Electron Microscopy</i> , 2007 , 56, 225-34		13
66	Nucleation Mechanism of 40° Rotated Grains during Recrystallization in Heavily Cold-Rolled Ni ₃ Al Single Crystals. <i>Materials Science Forum</i> , 2007 , 558-559, 183-188	0.4	
65	Spontaneous catalytic activation of Ni ₃ Al thin foils in methanol decomposition. <i>Journal of Catalysis</i> , 2006 , 243, 99-107	7.3	59
64	Control of the Si Vacancy Concentration and Arrangement in ReSi _{1.75} by Al and P Additions. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 980, 40		1
63	Thermoelectric properties of Ba-Ge based Type-III Clathrate Compounds. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 980, 5		1
62	Defect Control and Defect Engineering of Transition-metal Silicides. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 980, 1		
61	Synthesis of Magnetic Nanoparticles by Sputtering. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 980, 45		1
60	Microstructures and Hydrogen Permeability of Nb-NiTi Eutectic Alloys Prepared by Directional Solidification. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 980, 52		
59	Evaluation of the Stability of Raft Structure in Nickel Base Superalloys Throughout their Lifetime. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 980, 8		
58	Texture Memory Effect During Heat Treatment in the Heavily Cold Rolled Ni ₃ Al Foils. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 980, 9		
57	Crystal Structures and Thermoelectric Properties of Ru _{1-x} Re _x Si _y Chimney-Ladder Compounds. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 980, 37		
56	The Broadening of Crystallographic Orientation Distribution in Crept Ni-base Superalloys. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 980, 28		

55	Crystal structure and thermoelectric properties of type-I clathrate compounds in the Ba ₁₀ Ge ₁₆ system. <i>Journal of Applied Physics</i> , 2006 , 100, 073504	2.5	47
54	Influences of Microstructures of the Cathode/Electrolyte Interface on the Electrochemical Properties of All Solid-State Li-ion Batteries. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 972, 1		
53	High thermoelectric performance of type-III clathrate compounds of the Ba ₁₀ Ge ₁₆ system. <i>Acta Materialia</i> , 2006 , 54, 2057-2062	8.4	64
52	Formation of a series of chimney/ladder compounds in the Ru ₂ ReSi system. <i>Acta Materialia</i> , 2006 , 54, 2857-2865	8.4	18
51	Catalytic Properties of Ni ₃ Al Foils for Methanol Decomposition. <i>Catalysis Letters</i> , 2006 , 106, 71-75	2.8	44
50	Composition Analysis of Atomistic Site Levels in ReSiAl. <i>Materia Japan</i> , 2006 , 45, 870-870	0.1	
49	Deposition of NiAl coating for improvement of oxidation resistance of cold-rolled Ni ₃ Al foils. <i>Intermetallics</i> , 2005 , 13, 129-136	3.5	24
48	Catalytic properties of alkali-leached Ni ₃ Al for hydrogen production from methanol. <i>Intermetallics</i> , 2005 , 13, 151-155	3.5	44
47	Tensile and bending deformation of Ni ₃ Al heavily cold-rolled foil. <i>Intermetallics</i> , 2005 , 13, 608-614	3.5	9
46	c-axis compression twinning in an off-stoichiometric compound Ti ₃ Al with the D019 structure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 400-401, 339-344	5.3	7
45	Notch sensitivity of heavily cold-rolled Ni ₃ Al foils. <i>Scripta Materialia</i> , 2005 , 53, 1339-1343	5.6	4
44	Anisotropy in Cold Rolling of Single Crystalline Ni ₃ -Al-Base Intermetallic Alloys. <i>Materials Science Forum</i> , 2005 , 495-497, 737-742	0.4	3
43	Ductility of cold-rolled and recrystallized Ni ₃ Al foils. <i>Journal of Materials Research</i> , 2005 , 20, 1054-1062	2.5	16
42	Catalytic Properties of Ni ₃ Al for Hydrogen Production Reactions. <i>Materials Science Forum</i> , 2005 , 475-479, 755-758	0.4	5
41	Plane Strain Compression of Single Crystalline Ni ₃ Al-Base Intermetallic Compounds. <i>Materials Science Forum</i> , 2005 , 495-497, 767-774	0.4	
40	Crystal Structure Analysis of ReSi _{1.75} . <i>Materia Japan</i> , 2005 , 44, 969-969	0.1	
39	Microstructures in Cold-Rolled Ni ₃ Al Single Crystals. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 842, 281		2
38	Microstructure and Texture Evolution during Cold Rolling and Recrystallization of Ni ₃ Al Single Crystals. <i>Defect and Diffusion Forum</i> , 2004 , 233-234, 37-48	0.7	11

37	Texture Development of Ni ₃ Al Thin Foils during Recrystallization and Grain Growth. <i>Materials Science Forum</i> , 2004 , 467-470, 447-452	0.4	10
36	Characterization and Catalytic Properties of Ni ₃ Al for Hydrogen Production from Methanol. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 842, 191		
35	Deformation twinning in single crystals of a D019 compound with an off-stoichiometric composition (Ti ₁₃ Al _{6.5}). <i>Acta Materialia</i> , 2004 , 52, 4941-4952	8.4	16
34	Cyclic oxidation behavior and recrystallization of cold-rolled Ni ₃ Al foils. <i>Materials Letters</i> , 2004 , 58, 2867-2871	3.9	5
33	Catalytic Properties of Ni ₃ Al Intermetallics for Methanol Decomposition. <i>Materials Transactions</i> , 2004 , 45, 3177-3179	1.3	39
32	Orientation dependence of texture evolution in cold-rolled Ni ₃ Al single crystals. <i>Philosophical Magazine</i> , 2003 , 83, 3029-3046	1.6	19
31	Mechanical Properties of Cold-Rolled Ni ₃ Al Thin Foils. <i>Materials Science Forum</i> , 2003 , 426-432, 1727-1732	0.4	2
30	Polarization of plastic deformation modes in polysynthetically twinned TiAl crystals. <i>Journal of Materials Research</i> , 2003 , 18, 702-708	2.5	10
29	Fabrication of thin Ni ₃ Al foils by cold rolling. <i>Scripta Materialia</i> , 2002 , 47, 267-272	5.6	49
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27	Ni ₃ Al?????????????. <i>Materia Japan</i> , 2002 , 41, 283-289	0.1	3
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24	Microstructures and Tensile Properties of Cold-rolled Thin Foils of Binary Ni-Al Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 753, 1		
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21	Fabrication of Ni ₃ Al thin foil by cold-rolling. <i>Intermetallics</i> , 2001 , 9, 157-167	3.5	58
20	Ni ₃ Al Thin Foil by Cold Rolling. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 646, 288		

19	c-Axis tensile deformation of Ti3Al with the DO19 structure at room temperature. <i>Acta Materialia</i> , 1999 , 47, 3405-3410	8.4	18
18	Deformation of PST crystals of a TiAl/Ti3Al two-phase alloy at 1000°C. <i>Intermetallics</i> , 1999 , 7, 1131-1139	3.5	26
17	Investigating Atomic Scale Phenomena at Materials Interfaces with Correlated Techniques in STEM/TEM. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 589, 311		
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15	Deformation of lamellar structure in TiAl-Ti3Al two-phase alloys. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1998 , 78, 1-28		99
14	Deformation of Bi-PST Crystals of TiAl Produced by Diffusion Bonding. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 552, 1		
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- 1 Uniaxial mechanical properties of face-centered cubic single- and multiphase high-entropy alloys. 3.2 ○
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