

Takayuki Takasugi

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Electronic and structural studies of grain boundary strength and fracture in L12 ordered alloys ^{II} . On the effect of third elements in Ni3Al alloy. Acta Metallurgica, 1985, 33, 1259-1269.	2.1	166
2	Factors affecting the intergranular hydrogen embrittlement of Co3Ti. Acta Metallurgica, 1986, 34, 607-618.	2.1	165
3	Determination of phase equilibria in the Co-rich Co-Al-W ternary system with a diffusion-couple technique. Intermetallics, 2009, 17, 1085-1089.	3.9	161
4	Electronic and structural studies of grain boundary strength and fracture in L12 ordered alloys ^I . On binary A3B alloys. Acta Metallurgica, 1985, 33, 1247-1258.	2.1	142
5	Strengthening and ductilization of Ni3Si by the addition of Ti elements. Acta Metallurgica Et Materialia, 1990, 38, 747-755.	1.8	137
6	Mapping of 475 °C embrittlement in ferritic Fe-Cr-Al alloys. Scripta Materialia, 2010, 63, 1104-1107.	5.2	123
7	Intergranular fracture and grain boundary chemistry of Ni3Al and Ni3Si. Scripta Metallurgica, 1985, 19, 551-556.	1.2	112
8	Environmental effect on mechanical properties of recrystallized L12-type Ni3(Si,Ti) intermetallics. Journal of Materials Science, 1991, 26, 1179-1186.	3.7	110
9	High temperature strength and ductility of polycrystalline Co3Ti. Acta Metallurgica, 1985, 33, 39-48.	2.1	106
10	Mechanical properties of Ni3Al containing C, B and Be. Acta Metallurgica, 1988, 36, 1823-1836.	2.1	102
11	Effects of combined plasma-carburizing and shot-peening on fatigue and wear properties of Ti-6Al-4V alloy. Surface and Coatings Technology, 2009, 203, 1400-1405.	4.8	100
12	Slip Modes in B2-Type Intermetallic Alloys. Materials Transactions, JIM, 1990, 31, 435-442.	0.9	96
13	Elasticity of Ni-based L12-type intermetallic compounds. Acta Metallurgica Et Materialia, 1992, 40, 381-387.	1.8	94
14	Deformability improvement in C15 NbCr2 intermetallics by addition of ternary elements. Acta Materialia, 1996, 44, 669-674.	7.9	94
15	Phase relation and microstructure in multi-phase intermetallic alloys based on Ni3Al-Ni3Ti-Ni3V pseudo-ternary alloy system. Intermetallics, 2004, 12, 389-399.	3.9	92
16	Dual multi-phase intermetallic alloys composed of geometrically close-packed Ni3X (X: Al, Ti and V) type structures ^I . Microstructures and their stability. Acta Materialia, 2006, 54, 851-860.	7.9	83
17	Texture Control for Improving Deep Drawability in Rolled and Annealed Aluminum Alloy Sheets. Materials Transactions, 2007, 48, 2014-2022.	1.2	83
18	Hydrogen embrittlement of pseudobinary L12-type Ni3(Al0.4Mn0.6) intermetallic compound. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1988, 19, 353-358.	1.4	82

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19	Plastic flow of Co ₃ Ti single crystals. <i>Acta Metallurgica</i> , 1987, 35, 2015-2026.	2.1	80
20	Evaluation of surface-modified Ti-6Al-4V alloy by combination of plasma-carburizing and deep-rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 488, 139-145.	5.6	79
21	Geometrical consideration on grain boundary structure of L20 and L12 superlattice alloys. <i>Acta Metallurgica</i> , 1983, 31, 1187-1202.	2.1	78
22	Mechanisms of ductility improvement in L1 ₂ compounds. <i>Journal of Materials Research</i> , 1988, 3, 426-440.	2.6	77
23	Improved ductility and strength of Ni ₃ Al compound by beryllium addition. <i>Scripta Metallurgica</i> , 1986, 20, 1317-1321.	1.2	76
24	The influence of hydrogen on deformation and fracture processes in Co ₃ Ti polycrystals and single crystals. <i>Acta Metallurgica</i> , 1989, 37, 507-517.	2.1	75
25	Dual multi-phase intermetallic alloys composed of geometrically close packed Ni ₃ X (X: Al, Ti and V) type structures - II. Mechanical properties. <i>Acta Materialia</i> , 2006, 54, 861-870.	7.9	71
26	Phase equilibria in the Co-rich Co-Al-W-Ti quaternary system. <i>Intermetallics</i> , 2011, 19, 1908-1912.	3.9	66
27	The effects of alloying elements (Ta, Hf) on the thermodynamic stability of $\hat{\Gamma}_3$ -Co ₃ (Al,W) phase. <i>Intermetallics</i> , 2012, 31, 94-98.	3.9	66
28	Mechanical properties of the Ni ₃ (Si, Ti) alloys doped with carbon and beryllium. <i>Journal of Materials Science</i> , 1991, 26, 3032-3040.	3.7	65
29	Mechanical properties of Co ₃ Ti polycrystals alloyed with various additions. <i>Journal of Materials Science</i> , 1989, 24, 4458-4466.	3.7	64
30	Atomistic defect structures of Ni ₃ Al containing C, B and Be. <i>Acta Metallurgica</i> , 1988, 36, 1815-1822.	2.1	61
31	Metallographic and structural observations in the pseudo-binary section Ni ₃ Si-Ni ₃ Ti of the Ni-Si-Ti system. <i>Acta Metallurgica Et Materialia</i> , 1990, 38, 739-745.	1.8	61
32	Phase relation and microstructure in Ni ₃ Al-Ni ₃ Ti-Ni ₃ Nb pseudo-ternary alloy system. <i>Intermetallics</i> , 2002, 10, 247-254.	3.9	60
33	Electronic and structural studies of grain boundary strength and fracture in L12 ordered alloys - III. On the effect of stoichiometry. <i>Acta Metallurgica</i> , 1987, 35, 381-391.	2.1	59
34	Mechanical properties of dual multi-phase single-crystal intermetallic alloy composed of geometrically close packed Ni ₃ X (X: Al and V) type structures. <i>Intermetallics</i> , 2007, 15, 119-127.	3.9	59
35	The Stability of $\hat{\Gamma}_3$ -Co ₃ (Al,W) Phase in Co-Al-W Ternary System. <i>Materials Science Forum</i> , 0, 654-656, 448-451.	0.3	55
36	Microstructural factors affecting hardness property of dual two-phase intermetallic alloys based on Ni ₃ Al-Ni ₃ V pseudo-binary alloy system. <i>Intermetallics</i> , 2009, 17, 938-944.	3.9	54

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37	Discontinuous precipitates in age-hardening CuNiSi alloys. <i>Materials Characterization</i> , 2016, 115, 39-45.	4.4	54
38	Intergranular hydrogen embrittlement of Co3Ti. <i>Scripta Metallurgica</i> , 1985, 19, 903-907.	1.2	53
39	Deformation of CoTi polycrystals. <i>Journal of Materials Science</i> , 1988, 23, 1265-1273.	3.7	53
40	Microstructures and defect structures in ZrCr2 Laves phase based intermetallic compounds. <i>Intermetallics</i> , 2002, 10, 783-792.	3.9	53
41	Mechanical properties of recrystallized L12-type Ni3(Si,Ti) intermetallics. <i>Journal of Materials Science</i> , 1991, 26, 1173-1178.	3.7	50
42	High temperature mechanical properties of C15 Laves phase Cr2Nb intermetallics. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995, 192-193, 805-810.	5.6	50
43	Microstructural evolution of dual multi-phase intermetallic alloys composed of geometrically close packed Ni3X (X: Al and V) type structures. <i>Intermetallics</i> , 2007, 15, 338-348.	3.9	50
44	Recrystallization and grain growth of Co3Ti. <i>Acta Metallurgica</i> , 1985, 33, 49-58.	2.1	49
45	Alloying behavior of Co3Ti. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1986, 17, 1433-1439.	1.4	47
46	Plastic flow of B2-type CoTi single crystals. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1990, 61, 785-800.	0.6	47
47	Microstructure, mechanical property and oxidation property in Ni3Siâ€“Ni3Tiâ€“Ni3Nb multi-phase intermetallic alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 399, 332-343.	5.6	47
48	Fabrication of high-strength and high-conductivity Cuâ€“Ti alloy wire by aging in a hydrogen atmosphere. <i>Journal of Alloys and Compounds</i> , 2013, 580, S397-S400.	5.5	47
49	Superplastic deformation in Ni3(Si, Ti) alloys. <i>Acta Metallurgica Et Materialia</i> , 1992, 40, 1895-1906.	1.8	46
50	Phase relation and microstructure in multi-phase intermetallic alloys based on Ni3Alâ€“Ni3Nbâ€“Ni3V pseudo-ternary alloy system. <i>Intermetallics</i> , 2006, 14, 170-179.	3.9	46
51	The effects of trace impurities on the ductility of a Cr-Mo-V steel at elevated temperatures. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1983, 14, 571-580.	1.4	45
52	Microstructure and mechanical properties of two-phase Crâ€“Cr2Nb, Crâ€“Cr2Zr and Crâ€“Cr2(Nb,Zr) alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999, 260, 108-123.	5.6	45
53	Texture of TiNi shape memory alloy sheets produced by roll-bonding and solid phase reaction from elementary metals. <i>Acta Materialia</i> , 2003, 51, 6373-6383.	7.9	45
54	Determination of site occupancy of additives X (X=V, Mo, W and Ti) in the Nbâ€“Crâ€“X Laves phase by ALCHEMI. <i>Acta Materialia</i> , 1999, 47, 1987-1992.	7.9	44

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55	Effect of combined plasma-carburizing and deep-rolling on notch fatigue property of Ti-6Al-4V alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 499, 482-488.	5.6	42
56	Extraction of precipitates from age-hardenable Cu-Ti alloys. <i>Materials Characterization</i> , 2013, 82, 23-31.	4.4	42
57	Plastic flow of Ni ₃ (Si,Ti) Single crystals. <i>Acta Metallurgica</i> , 1989, 37, 3425-3436.	2.1	40
58	Activated slip systems during yielding of α - β brass two-phase bicrystals. <i>Journal of Materials Science</i> , 1978, 13, 2013-2021.	3.7	38
59	Defect structures in Co-rich Co ₃ Ti intermetallic compound. <i>Acta Metallurgica</i> , 1985, 33, 33-38.	2.1	38
60	Environmental embrittlement and grain boundary segregation of boron in Ni ₃ (Si,Ti) and Co ₃ Ti alloys. <i>Scripta Metallurgica Et Materialia</i> , 1993, 29, 1587-1591.	1.0	38
61	Mechanical properties of Ni ₃ (Si,Ti) polycrystals alloyed with substitutional additions. <i>Journal of Materials Science</i> , 1991, 26, 3517-3525.	3.7	37
62	Environmental embrittlement of β titanium aluminide. <i>Journal of Materials Research</i> , 1992, 7, 2739-2746.	2.6	37
63	Microstructural evolution and mechanical property in dual two-phase intermetallic alloys composed of geometrically close-packed Ni ₃ X (X: Al and V) containing Nb. <i>Journal of Materials Science</i> , 2008, 43, 748-758.	3.7	37
64	Phase relation and microstructure in multi-phase intermetallic alloys based on Ni ₃ Si-Ni ₃ Ti-Ni ₃ Nb pseudo-ternary alloy system. <i>Intermetallics</i> , 2004, 12, 317-325.	3.9	36
65	Title is missing!. <i>Journal of Materials Science</i> , 2003, 38, 657-665.	3.7	35
66	Microstructure and mechanical property in dual two-phase intermetallic alloys composed of geometrically close-packed Ni ₃ X (X: Al and V) containing Nb. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 473, 180-188.	5.6	35
67	The effects of austenitization temperature and impurity content on the tensile ductility of a CrMoV steel at 500°C. <i>Scripta Metallurgica</i> , 1982, 16, 79-83.	1.2	34
68	Room-temperature tensile property and fracture behavior of recrystallized B2-type CoZr intermetallic compound. <i>Scripta Materialia</i> , 2005, 52, 39-44.	5.2	34
69	Environmental effects on the mechanical properties of Co ₃ Ti containing boron, carbon and beryllium. <i>Journal of Materials Science</i> , 1990, 25, 4239-4246.	3.7	33
70	Phase field and room-temperature mechanical properties of C15 Laves phase in Nb-Hf-Cr and Nb-Ta-Cr alloy systems. <i>Journal of Alloys and Compounds</i> , 2006, 424, 283-288.	5.5	31
71	High-temperature deformation of the NbCr ₂ -based Laves intermetallics in Nb-Cr-V and Nb-Cr-Mo alloy systems. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997, 224, 77-86.	5.6	30
72	The Effect of Ternary Addition on Structure and Stability of NbCr ₂ Laves Phases. <i>Journal of Materials Research</i> , 1998, 13, 2505-2513.	2.6	30

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73	Tensile properties of recrystallized B2 CoZr intermetallic alloys. <i>Journal of Alloys and Compounds</i> , 2008, 456, 125-134.	5.5	30
74	Anomalous temperature dependence of the yield strength in IVa-VIII intermetallic compounds with B2 structure. <i>Journal of Materials Science</i> , 1991, 26, 2941-2948.	3.7	29
75	Transmission electron microscopy study of the activated slip systems and the dislocation structures in B2-type CoZr and CoHf polycrystals. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1993, 68, 401-417.	0.6	29
76	Investigation of Precipitation Behavior in Age-Hardenable Cu-Ti Alloys by an Extraction-Based Approach. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 3401-3411.	2.2	29
77	Hydrogen embrittlement of L12-type Ni ₃ (Al, Ti) single crystals. <i>Acta Metallurgica Et Materialia</i> , 1991, 39, 2157-2167.	1.8	28
78	Stress asymmetry of stoichiometric NiAl single crystals. <i>Acta Metallurgica Et Materialia</i> , 1993, 41, 1021-1031.	1.8	28
79	TEM investigation of dislocation dissociation in L12-type Co ₇ Ni ₃ Ti ₂₃ single crystals I. The effect of applied stress. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1989, 59, 423-436.	0.6	27
80	The effect of temperature and orientation on dislocation microstructures in b2-type coti single crystals. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1992, 65, 29-40.	0.6	27
81	Microstructural control and mechanical properties of nickel silicides. <i>Intermetallics</i> , 2000, 8, 575-584.	3.9	27
82	Grain Boundary Character Dependence on Nucleation of Discontinuous Precipitates in Cu-Ti Alloys. <i>Materials</i> , 2017, 10, 415.	2.9	27
83	The effect of temperature on dislocation structures in l1₂-type ni₃ (si, ti) single crystals. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1992, 65, 41-52.	0.6	26
84	The temperature and orientation dependence of tensile deformation and fracture in NiAl single crystals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1992, 149, 183-193.	5.6	26
85	Anomalous elongation behavior of stoichiometric NiAl single crystals at intermediate temperatures. <i>Acta Metallurgica Et Materialia</i> , 1993, 41, 1009-1020.	1.8	26
86	Alloying effects on the phase equilibria among Ni(A1), Ni3Al(L12) and Ni3V(D022) phases. <i>Intermetallics</i> , 2012, 23, 68-75.	3.9	26
87	Kinetics and Equilibrium of Age-Induced Precipitation in Cu-4 At. Pct Ti Binary Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 1501-1511.	2.2	26
88	Environmental embrittlement and grain boundary segregation of boron and carbon in Ni3(Si, Ti) alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995, 192-193, 407-412.	5.6	25
89	Effect of Boron Doping on Cellular Discontinuous Precipitation for Age-Hardenable Cu-Ti Alloys. <i>Materials</i> , 2015, 8, 3467-3478.	2.9	25
90	Tem investigation on dislocation dissociation and planar faults in deformed (Co, Ni) ₃ Ti single crystal. <i>Acta Metallurgica</i> , 1988, 36, 2959-2966.	2.1	24

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91	High temperature mechanical properties of Cr ₂ Nb-based intermetallics. Journal of Materials Research, 1993, 8, 3069-3077.	2.6	24
92	The effect of Cr addition on mechanical and chemical properties of Ni ₃ Si alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 329-331, 446-454.	5.6	24
93	Microstructure, mechanical property and chemical property in Ni ₃ Al-Ni ₃ Ti-Ni ₃ Nb-based multi-intermetallic alloys. Journal of Materials Science, 2004, 39, 2295-2301.	3.7	24
94	Effect of Composition on the Strength and Electrical Conductivity of Cu-Ti Binary Alloy Wires Fabricated by Aging and Intense Drawing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 1389-1396.	2.2	24
95	The plastic deformation and fracture behaviours of $\hat{1}\hat{1}$ brass two-phase bicrystals. Acta Metallurgica, 1978, 26, 1453-1459.	2.1	23
96	Environmental Embrittlement of Ni ₃ (Si, Ti) Single Crystals. Materials Transactions, JIM, 1993, 34, 775-785.	0.9	23
97	Self-diffusion of cobalt in intermetallic compound Co ₃ Ti. Scripta Metallurgica, 1988, 22, 507-510.	1.2	22
98	Suppression of environmental embrittlement of Ni ₃ (Si,Ti) alloys by shot peening. Scripta Materialia, 1996, 34, 1131-1138.	5.2	22
99	The alloying effect on the high temperature deformation of Laves phase NbCr ₂ intermetallic compound. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 234-236, 873-876.	5.6	22
100	Phase relation and microstructure of the Nb-Cr-W alloy system. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 262, 107-114.	5.6	22
101	TEM observation for deformation microstructures of two C15 NbCr ₂ intermetallic compounds. Intermetallics, 2002, 10, 85-93.	3.9	22
102	Laves phase fields in Cr-Zr-Nb and Cr-Zr-Hf alloy systems. Scripta Materialia, 2003, 48, 559-563.	5.2	22
103	Tensile properties of L12 intermetallic foils fabricated by cold rolling. International Journal of Materials Research, 2008, 99, 1229-1236.	0.3	22
104	High Strength and High Electrical Conductivity Cu-Ti Alloy Wires Fabricated by Aging and Severe Drawing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 4956-4965.	2.2	22
105	Effect of surface diffusion on creep fracture. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1981, 12, 659-667.	1.4	21
106	The boron effect on the superplastic deformation of Ni ₃ (Si,Ti) alloys. Scripta Metallurgica Et Materialia, 1991, 25, 889-894.	1.0	21
107	Effects of Boron and Carbon Additions on Environmental Embrittlement of a Ni ₃ (Si, Ti) Alloy at Ambient Temperature. Materials Transactions, JIM, 1995, 36, 30-35.	0.9	21
108	Microstructure and high-temperature deformation of the C15 NbCr ₂ -based Laves intermetallics in Nb-Cr-V alloy system. Journal of Materials Research, 1995, 10, 2463-2470.	2.6	21

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109	Effects of Grain Size and Temperature on Environmental Embrittlement of Ni ₃ (Si, Ti) Alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 302, 215-221.	1.2	21
110	Tensile property and fracture behavior of hot-rolled CoTi intermetallic compound. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 302, 215-221.	5.6	21
111	Alloying Behavior of Ni ₃ Al _{1-x} M-Type Compounds with DO ₃ Structure. <i>Materials Transactions</i> , 2011, 52, 663-671.	1.2	21
112	Dynamic observations of the fracture phenomena in alpha/beta brass two-phase bicrystals. <i>Journal of Materials Science</i> , 1978, 13, 2462-2470.	3.7	20
113	TEM investigation of dislocation dissociation in L12-type Co ₇₄ Ni ₃ Ti ₂₃ single crystals II. The influence of the deformation temperature. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1989, 59, 437-454.	0.6	20
114	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> , 1995, 71, 347-358.	0.6	20
115	Effect of Nb and Ti Addition on Microstructure and Hardness of Dual Two-Phase Intermetallic Alloys Based on Ni ₃ Al-Ni ₃ V Pseudo-Binary Alloy System. <i>Materials Transactions</i> , 2010, 51, 1395-1403.	1.2	20
116	Strength anomaly and dislocation structure at 4.2 K in Ni ₃ (Si, Ti) single crystals. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1992, 65, 613-624.	0.6	19
117	Alloying behavior of Ni ₃ M-type GCP compounds. <i>Journal of Alloys and Compounds</i> , 2010, 496, 116-121.	5.5	19
118	Alloying effect on microstructure and mechanical properties of thermomechanically processed Ni ₃ (Si,Ti) alloys. <i>International Journal of Materials Research</i> , 2011, 102, 1-7.	0.3	19
119	The corrosion behavior of Ni ₃ (Si,Ti) intermetallic compounds with Al, Cr, and Mo in various acidic solutions. <i>Corrosion Science</i> , 2012, 60, 10-17.	6.6	19
120	The peculiar temperature and orientation dependence of L12-type Co ₇₄ Ni ₃ Ti ₂₃ single crystals. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1989, 59, 401-421.	0.6	18
121	The influence of chromium addition on the environmental embrittlement of Ni ₃ (Si,Ti) alloys at ambient temperatures. <i>Scripta Metallurgica Et Materialia</i> , 1995, 32, 1025-1029.	1.0	18
122	High-resolution electron microscopy of dislocations in a B2-type intermetallic compound CoTi. <i>Intermetallics</i> , 1995, 3, 167-171.	3.9	18
123	Phase relation and microstructure of Nb-Cr-V and Nb-Cr-Mo alloy systems. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997, 224, 69-76.	5.6	18
124	Further investigation on phase relation and microstructures in Ni ₃ Si-Ni ₃ Ti-Ni ₃ Nb pseudo-ternary alloy system. <i>Intermetallics</i> , 2006, 14, 367-376.	3.9	18
125	Interface structure of $\hat{1}\pm\hat{1}^2$ brass two-phase bicrystals made by solid state diffusion couple method. <i>Acta Metallurgica</i> , 1979, 27, 111-115.	2.1	17
126	Magnetic moment and curie temperature of the Ni ₃ Al _{1-x} Mnx solid solution. <i>Journal of Magnetism and Magnetic Materials</i> , 1985, 53, L1-L4.	2.3	17

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127	Flow behavior and microstructure of Co ₃ Ti intermetallic alloy during superplastic deformation. <i>Acta Materialia</i> , 1998, 46, 3593-3604.	7.9	17
128	Effects of sulfur and phosphorus on the creep ductility of a Cr–Mo–V steel. <i>Materials Science and Engineering</i> , 1983, 57, 15-20.	0.1	16
129	Elastic Constants of Co ₃ Ti and CoTi Intermetallic Compounds. <i>Materials Transactions, JIM</i> , 1991, 32, 48-51.	0.9	16
130	Dislocation structures for octahedral slip in Ni ₃ (Si, Ti) single crystals at elevated temperatures. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1993, 67, 447-462.	0.6	16
131	The influence of constituent elements and atomic ordering on hydrogen embrittlement of Ni ₃ Fe polycrystals. <i>Intermetallics</i> , 1994, 2, 225-232.	3.9	16
132	Texture evolution during cold rolling and recrystallization of L12-type ordered Ni ₃ (Si,Ti) alloy. <i>Intermetallics</i> , 2002, 10, 693-700.	3.9	16
133	Defect structures and room-temperature mechanical properties of C15 laves phases in Zr-Nb-Cr and Zr-Hf-Cr alloy systems. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004, 35, 3469-3476.	2.2	16
134	Aging effect on microstructure and hardness of two-phase Ni ₃ Al–Ni ₃ V intermetallic alloys containing Ta and Re. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 539, 30-37.	5.6	16
135	Operative slip systems in α -brass two-phase bicrystals at 150 K. <i>Journal of Materials Science</i> , 1979, 14, 1651-1656.	3.7	15
136	Compositional effects on the high temperature ductility of 1 Cr-1.25 Mo-0.25 V Steel. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1982, 13, 1471-1481.	1.4	15
137	High-temperature strength and ductility of L12-type Ni ₃ Al-Ni ₃ Mn intermetallic compound. <i>Journal of Materials Science</i> , 1987, 22, 2599-2608.	3.7	15
138	High temperature strength and ductility of recrystallized Ni ₃ Al-Ni ₃ Mn alloys. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1988, 19, 345-352.	1.4	15
139	The effect of second-phase dispersions on mechanical property of Ni ₃ Si based multi-phase intermetallic alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 476, 112-119.	5.6	15
140	The corrosion behavior of intermetallic compounds Ni ₃ (Si,Ti) and Ni ₃ (Si,Ti)+2Mo in acidic solutions. <i>Applied Surface Science</i> , 2011, 257, 8268-8274.	6.1	15
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