

Kyosuke Kishida

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7368107/publications.pdf>

Version: 2024-02-01

184
papers

3,805
citations

101384

36
h-index

161609

54
g-index

186
all docs

186
docs citations

186
times ranked

2361
citing authors

#	ARTICLE	IF	CITATIONS
1	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 Mg-Al-Gd system. <i>Acta Materialia</i> , 2011, 59, 7287-7299.	3.8	205
2	Effects of quaternary alloying elements on the β solvus temperature of Co-Al-W based alloys with fcc/L12 two-phase microstructures. <i>Journal of Alloys and Compounds</i> , 2010, 508, 71-78.	2.8	190
3	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>Acta Materialia</i> , 2015, 99, 228-239.	3.8	145
4	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.	0.8	106
5	Temperature dependence of yield stress, tensile elongation and deformation structures in polysynthetically twinned crystals of Ti-Al. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1995, 72, 1609-1631.	0.8	103
6	Ultrahigh strength and high plasticity in TiAl intermetallics with bimodal grain structure and nanotwins. <i>Scripta Materialia</i> , 2012, 67, 814-817.	2.6	94
7	Single-crystal elastic constants of Co ₃ (Al,W) with the L12 structure. <i>Applied Physics Letters</i> , 2007, 91, 181907.	1.5	86
8	Plastic deformation of polycrystals of Co ₃ (Al,W) with the L1 ₂ structure. <i>Philosophical Magazine</i> , 2011, 91, 3667-3684.	0.7	84
9	The crystal structure of the LPSO phase of the 14H-type in the Mg-Al-Gd alloy system. <i>Intermetallics</i> , 2012, 31, 55-64.	1.8	82
10	Experimental evaluation of critical resolved shear stress for the first-order pyramidal $\{11\bar{2}0\}$ slip in commercially pure Ti by micropillar compression method. <i>Acta Materialia</i> , 2020, 196, 168-174.	3.8	69
11	High thermoelectric performance of type-III clathrate compounds of the Ba-Ge-Ga system. <i>Acta Materialia</i> , 2006, 54, 2057-2062.	3.8	68
12	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.	3.8	66
13	Spontaneous catalytic activation of Ni ₃ Al thin foils in methanol decomposition. <i>Journal of Catalysis</i> , 2006, 243, 99-107.	3.1	63
14	Fabrication of Ni ₃ Al thin foil by cold-rolling. <i>Intermetallics</i> , 2001, 9, 157-167.	1.8	62
15	Plastic deformation of single crystals of Ti ₅ Si ₃ with the hexagonal D88 structure. <i>Acta Materialia</i> , 2010, 58, 846-857.	3.8	62
16	Deformation and fracture of PST crystals and directionally solidified ingots of TiAl-based alloys. <i>Intermetallics</i> , 1998, 6, 679-683.	1.8	60
17	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.	5.2	56
18	Plastic deformation of single crystals of the equiatomic Cr-Mn-Fe-Co-Ni high-entropy alloy in tension and compression from 10 ÅK to 1273 ÅK. <i>Acta Materialia</i> , 2021, 203, 116454.	3.8	56

#	ARTICLE	IF	CITATIONS
19	Microstructures and hydrogen permeability of directionally solidified Nb–Ni–Ti alloys with the Nb–NiTi eutectic microstructure. <i>Intermetallics</i> , 2008, 16, 88-95.	1.8	55
20	Strategy for managing both high strength and large ductility in structural materials—sequential nucleation of different deformation modes based on a concept of plaston. <i>Scripta Materialia</i> , 2020, 181, 35-42.	2.6	55
21	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.	3.8	54
22	Fabrication of thin Ni ₃ Al foils by cold rolling. <i>Scripta Materialia</i> , 2002, 47, 267-272.	2.6	53
23	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.	4.0	52
24	Crystal structure and thermoelectric properties of type-I clathrate compounds in the Ba–Ga–Ge system. <i>Journal of Applied Physics</i> , 2006, 100, 073504.	1.1	51
25	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.	1.1	48
26	Recent progress in our understanding of deformation and fracture of two-phase and single-phase TiAl alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1996, 213, 25-31.	2.6	47
27	Catalytic Properties of Ni ₃ Al Foils for Methanol Decomposition. <i>Catalysis Letters</i> , 2006, 106, 71-75.	1.4	47
28	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.	1.3	47
29	Catalytic properties of alkali-leached Ni ₃ Al for hydrogen production from methanol. <i>Intermetallics</i> , 2005, 13, 151-155.	1.8	46
30	Effects of Al-concentration and lamellar spacing on the room-temperature strength and ductility of PST crystals of TiAl. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997, 239-240, 336-343.	2.6	45
31	Catalytic Properties of Ni ₃ Al Intermetallics for Methanol Decomposition. <i>Materials Transactions</i> , 2004, 45, 3177-3179.	0.4	45
32	The most stable crystal structure and the formation processes of an order-disorder (OD) intermetallic phase in the Mg–Al–Gd ternary system. <i>Philosophical Magazine</i> , 2013, 93, 2826-2846.	0.7	45
33	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> , 2022, 148, 103144.	4.1	39
34	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.	4.1	38
35	Gamma Titanium Aluminide Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1994, 364, 03.	0.1	37
36	Plastic deformation of V- and Zr-alloyed PST TiAl in tension and compression at room temperature. <i>Acta Metallurgica Et Materialia</i> , 1995, 43, 1075-1086.	1.9	37

#	ARTICLE	IF	CITATIONS
37	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.	4.0	36
38	Effects of lattice misfit on plastic deformation behavior of single-crystalline micropillars of Ni-based superalloys. <i>Acta Materialia</i> , 2017, 138, 119-130.	3.8	35
39	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.	0.1	33
40	Deformation of PST crystals of a TiAl/Ti ₃ Al two-phase alloy at 1000°C. <i>Intermetallics</i> , 1999, 7, 1131-1139.	1.8	31
41	Deformation twinning in a Mg-Al-Gd ternary alloy containing precipitates with a long-period stacking-ordered (LPSO) structure. <i>Scripta Materialia</i> , 2014, 89, 25-28.	2.6	31
42	Compositional variations at TiAl-TiAl lamellar boundaries in binary and some ternary polysynthetically twinned Ti-Al. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1996, 74, 451-464.	0.8	30
43	Recent Progress in Our Understanding of Phase Stability, Atomic Structures and Mechanical and Functional Properties of High-Entropy Alloys. <i>Materials Transactions</i> , 2022, 63, 394-401.	0.4	30
44	Microstructure and fracture toughness in boron added NbSi ₂ (C40)/MoSi ₂ (C11b) duplex crystals. <i>Scripta Materialia</i> , 2016, 113, 236-240.	2.6	29
45	Micropillar compression deformation of single crystals of Mo ₅ SiB ₂ with the tetragonal D ₈ structure. <i>Acta Materialia</i> , 2018, 159, 416-428.	3.8	29
46	Deposition of NiAl coating for improvement of oxidation resistance of cold-rolled Ni ₃ Al foils. <i>Intermetallics</i> , 2005, 13, 129-136.	1.8	27
47	Room-temperature mechanical properties of cold-rolled thin foils of binary, stoichiometric Ni ₃ Al. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2002, 33, 2607-2613.	1.1	26
48	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.	1.6	24
49	Room temperature deformation of 6H-SiC single crystals investigated by micropillar compression. <i>Acta Materialia</i> , 2020, 187, 19-28.	3.8	24
50	Fabrication of thin foils of binary Ni ₃ Al two-phase alloys by cold rolling. <i>Intermetallics</i> , 2002, 10, 255-262.	1.8	23
51	Microstructure of the LiCoO ₂ (cathode)/La _{2/3} xLi ₃ TiO ₃ (electrolyte) interface and its influences on the electrochemical properties. <i>Acta Materialia</i> , 2007, 55, 4713-4722.	3.8	23
52	Thermoelectric properties of ternary and Al-containing quaternary Ru _{1-x} RexSi _y chimney∕ladder compounds. <i>Acta Materialia</i> , 2009, 57, 2010-2019.	3.8	23
53	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.	1.8	23
54	c-Axis tensile deformation of Ti ₃ Al with the DO ₁₉ structure at room temperature. <i>Acta Materialia</i> , 1999, 47, 3405-3410.	3.8	22

#	ARTICLE	IF	CITATIONS
55	Formation of a series of chimney-like ladder compounds in the Ru-Re-Si system. <i>Acta Materialia</i> , 2006, 54, 2857-2865.	3.8	21
56	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.	1.3	21
57	Orientation dependence of texture evolution in cold-rolled Ni ₃ Al single crystals. <i>Philosophical Magazine</i> , 2003, 83, 3029-3046.	0.7	20
58	Ductility of cold-rolled and recrystallized Ni ₃ Al foils. <i>Journal of Materials Research</i> , 2005, 20, 1054-1062.	1.2	20
59	Evolution of lattice defects, disordered/ordered phase transformations and mechanical properties in Ni-Al-Ti intermetallics by high-pressure torsion. <i>Journal of Alloys and Compounds</i> , 2013, 563, 221-228.	2.8	20
60	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.	3.8	20
61	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.	3.8	20
62	Directional bonding and asymmetry of interfacial structure in intermetallic TiAl: Combined theoretical and electron microscopy study. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1997, 75, 1447-1459.	0.8	19
63	Electron diffraction of <i>ABX₃</i> perovskites with both layered ordering of <i>A</i> cations and tilting of <i>BX₆</i> octahedra. <i>Acta Crystallographica Section B: Structural Science</i> , 2009, 65, 405-415.	1.8	18
64	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.	3.8	18
65	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.	3.8	18
66	Deformation twinning in single crystals of a D019 compound with an off-stoichiometric composition (Ti-36.5at.%Al). <i>Acta Materialia</i> , 2004, 52, 4941-4952.	3.8	17
67	Crystal structure and thermoelectric properties of type-III clathrate compounds in the Ba-In-Ge system. <i>Journal of Applied Physics</i> , 2007, 102, .	1.1	17
68	Substantial appearance of origin of conductivity decrease in Y-doped BaZrO ₃ due to Ba-deficiency. <i>RSC Advances</i> , 2014, 4, 31589.	1.7	16
69	Uniaxial mechanical properties of face-centered cubic single- and multiphase high-entropy alloys. <i>MRS Bulletin</i> , 2022, 47, 168-174.	1.7	15
70	Dislocation dissociation in TiAl alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997, 233, 111-115.	2.6	14
71	Crystal and Defect Structures of La _{2/3} Li ₃ TiO ₃ (x = 0.1) Produced by a Melt Process. <i>Journal of Electron Microscopy</i> , 2007, 56, 225-234.	0.9	14
72	Compression of Micropillars of TiAl Coexisting with Ti ₃ Al. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1295, 201.	0.1	14

#	ARTICLE	IF	CITATIONS
73	Cr segregation at C11b/C40 interface in MoSi ₂ -based alloys: A first-principles study. <i>Intermetallics</i> , 2013, 42, 165-169.	1.8	14
74	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.	1.8	14
75	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.	1.9	14
76	Direct atomic scale imaging of grain boundaries and defects in Bi-2223/Ag high-T _c superconducting tapes. <i>Physica C: Superconductivity and Its Applications</i> , 2001, 351, 281-294.	0.6	13
77	Thermoelectric properties and crystal structure of type-III clathrate compounds in the BaAl ₄ Ge system. <i>Journal of Applied Physics</i> , 2007, 102, .	1.1	13
78	Microstructure and electrochemical properties of the HT-LiCoO ₂ /La ₂ O ₃ -Li ₃ TiO ₃ solid electrolyte interfaces. <i>Journal of Materials Research</i> , 2010, 25, 1583-1587.	1.2	13
79	Plastic deformation of directionally solidified ingots of binary and some ternary MoSi ₂ /Mo ₅ Si ₃ eutectic composites. <i>Science and Technology of Advanced Materials</i> , 2016, 17, 517-529.	2.8	13
80	Elastic instability condition of the raft structure during creep deformation in nickel-base superalloys. <i>Acta Materialia</i> , 2008, 56, 3786-3790.	3.8	12
81	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.	1.1	12
82	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.	1.8	12
83	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> , 2022, 223, 117468.	3.8	12
84	Polarization of plastic deformation modes in polysynthetically twinned TiAl crystals. <i>Journal of Materials Research</i> , 2003, 18, 702-708.	1.2	11
85	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.	0.4	11
86	Data in support of crystal structures of highly-ordered long-period stacking-ordered phases with 18R, 14H and 10H-type stacking sequences in the MgZnY system. <i>Data in Brief</i> , 2015, 5, 314-320.	0.5	11
87	Room temperature deformation of single crystals of Ti ₅ Si ₃ with the hexagonal D88 structure investigated by micropillar compression tests. <i>Scientific Reports</i> , 2020, 10, 17983.	1.6	11
88	Texture Development of Ni ₃ Al Thin Foils during Recrystallization and Grain Growth. <i>Materials Science Forum</i> , 2004, 467-470, 447-452.	0.3	10
89	Structure Analysis of a Long Period Stacking Ordered Phase in Mg-Al-Gd Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1295, 267.	0.1	10
90	Pattern formation mechanism of directionally-solidified MoSi ₂ /Mo ₅ Si ₃ eutectic by phase-field simulation. <i>Intermetallics</i> , 2020, 116, 106590.	1.8	10

#	ARTICLE	IF	CITATIONS
91	Direct observation of zonal dislocation in complex materials by atomic-resolution scanning transmission electron microscopy. <i>Acta Materialia</i> , 2022, , 117756.	3.8	10
92	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.	2.6	9
93	Tensile and bending deformation of Ni ₃ Al heavily cold-rolled foil. <i>Intermetallics</i> , 2005, 13, 608-614.	1.8	9
94	Evolution of orientation distributions of $\hat{\Gamma}^3$ and $\hat{\Gamma}^3\hat{\epsilon}^2$ phases during creep deformation of Ni-base single crystal superalloys. <i>Acta Materialia</i> , 2009, 57, 1078-1085.	3.8	9
95	Mechanical Properties of TiAl and TiAl-Base Alloys. NATO ASI Series Series B: Physics, 1996, , 547-579.	0.2	9
96	High- T_C Ferromagnetic Semiconductor-Like Behavior and Unusual Electrical Properties in Compounds with a $2\hat{A}-2\hat{A}-2$ Superstructure of the Half-Heusler Phase. <i>Chemistry - A European Journal</i> , 2012, 18, 2536-2542.	1.7	8
97	Micropillar Compression of MoSi ₂ Single Crystals. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1760, 79.	0.1	8
98	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.	1.4	8
99	Room-temperature deformation of single crystals of ZrB ₂ and TiB ₂ with the hexagonal AlB ₂ structure investigated by micropillar compression. <i>Scientific Reports</i> , 2021, 11, 14265.	1.6	8
100	Synthesis of Porous Titanium with Directional Pores by Selective Laser Melting. <i>International Journal of Automation Technology</i> , 2012, 6, 597-603.	0.5	8
101	Tensile properties and cold rolling of binary Ni-Al $\hat{\Gamma}^3/\hat{\Gamma}^3\hat{\epsilon}^2$ two-phase single crystals. <i>Intermetallics</i> , 2008, 16, 1317-1324.	1.8	7
102	Structural and Thermoelectric Properties of Chimney-Ladder Compounds in the Ru-Mn-Si System. <i>Journal of Electronic Materials</i> , 2010, 39, 1640-1644.	1.0	7
103	Mechanical Properties of the Ternary L ₁ &sub2; Compound Co ₃ (Al,W) in Single and Polycrystalline Forms. <i>Advanced Materials Research</i> , 0, 278, 1-6.	0.3	7
104	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.	0.1	7
105	Microstructures and hydrogen absorption-desorption behavior of an A ₂ B ₇ -based La-Mg-Ni alloy. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 22159-22166.	3.8	7
106	Micropillar compression deformation of single crystals of $\hat{\Gamma}^3$ -Nb ₅ Si ₃ with the tetragonal D _{8h} structure. <i>Science and Technology of Advanced Materials</i> , 2020, 21, 805-816.	2.8	7
107	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.	1.6	7
108	Crystal Structure and Thermoelectric Properties of ReSi _{1.75} Based Alloys. <i>Advanced Materials Research</i> , 2007, 26-28, 197-200.	0.3	6

#	ARTICLE	IF	CITATIONS
109	Physical and Mechanical Properties of Single Crystals of Co-Al-W Based Alloys with L1 ₂ Single-Phase and L1 ₂ /fcc Two-Phase Microstructures. Materials Science Forum, 2010, 638-642, 1342-1347.	0.3	6
110	Physical and Mechanical Properties of Co ₃ (Al,W) with the L1 ₂ Structure in Single and Polycrystalline Forms. Key Engineering Materials, 0, 465, 9-14.	0.4	6
111	First-principles study on phase stability of MoSi ₂ -NbSi ₂ pseudobinary alloys. Physical Review B, 2012, 85, .	1.1	6
112	Cyclic oxidation behavior and recrystallization of cold-rolled Ni3Al foils. Materials Letters, 2004, 58, 2867-2871.	1.3	5
113	Catalytic Properties of Ni ₃ Al for Hydrogen Production Reactions. Materials Science Forum, 2005, 475-479, 755-758.	0.3	5
114	Texture memory effect in heavily cold-rolled Ni3Al single crystals. Acta Materialia, 2007, 55, 1779-1789.	3.8	5
115	Morphology change of γ' precipitates in γ/γ' two-phase microstructure in Co-based superalloys by higher-order alloying. Materials Research Society Symposia Proceedings, 2011, 1295, 423.	0.1	5
116	Direct Observation of Vacancies and Local Thermal Vibration in Thermoelectric Rhenium Silicide. Applied Physics Express, 2012, 5, 035203.	1.1	5
117	Plastic Deformation of Directionally-Solidified MoSi ₂ /Mo ₅ Si ₃ Eutectic Composites. Materials Research Society Symposia Proceedings, 2013, 1516, 195-200.	0.1	5
118	Notch sensitivity of heavily cold-rolled Ni3Al foils. Scripta Materialia, 2005, 53, 1339-1343.	2.6	4
119	Thermoelectric Properties of Ru ₂ Si ₃ -Based Chimney-Ladder Phases. Materials Science Forum, 2007, 561-565, 463-466.	0.3	4
120	Laser Spot Welding of Cold-Rolled Boron-Free Ni3Al Foils. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2007, 38, 1041-1047.	1.1	4
121	Mechanical Properties of Cr5Si3 with the D8m Structure. Materials Research Society Symposia Proceedings, 2011, 1295, 213.	0.1	4
122	Phase-Field Study on the Segregation Mechanism of Additive Elements in NbSi ₂ /MoSi ₂ Duplex Silicide. Materials Research Society Symposia Proceedings, 2013, 1516, 145-150.	0.1	4
123	Phase-Field Simulation of Lamellar Structure Formation in MoSi ₂ /NbSi ₂ Duplex Silicide. Materials Research Society Symposia Proceedings, 2013, 1516, 309-315.	0.1	4
124	Micro-pillar Compression of Ni-base Superalloy Single Crystals. Materials Research Society Symposia Proceedings, 2013, 1516, 209-214.	0.1	4
125	Ni3Al [†] —“ α ” [†] . Materia Japan, 2002, 41, 283-289.	0.1	3
126	Anisotropy in Cold Rolling of Single Crystalline Ni ₃ -Al-Base Intermetallic Alloys. Materials Science Forum, 2005, 495-497, 737-742.	0.3	3

#	ARTICLE	IF	CITATIONS
127	Effects of Ternary Additions on the Microstructure of Directionally-Solidified MoSi ₂ /Mo ₅ Si ₃ Eutectic Composites. Materials Research Society Symposia Proceedings, 2013, 1516, 189-194.	0.1	3
128	Interface Migration with Segregation in MoSi ₂ -Based Lamellar Alloy Simulated by Phase-Field Method. Advanced Materials Research, 0, 922, 832-837.	0.3	3
129	Microstructures and Mechanical Properties of MoSi ₂ / Mo ₅ Si ₃ / Mo ₅ Si ₃ C Ternary Eutectic Composite. Materials Research Society Symposia Proceedings, 2015, 1760, 169.	0.1	3
130	Mechanical Properties of Cold-Rolled Ni ₃ Al Thin Foils. Materials Science Forum, 2003, 426-432, 1727-1732.	0.3	2
131	Microstructures in Cold-Rolled Ni ₃ Al Single Crystals. Materials Research Society Symposia Proceedings, 2004, 842, 281.	0.1	2
132	Thermoelectric properties of Ba-Ge based Type-III Clathrate Compounds. Materials Research Society Symposia Proceedings, 2006, 980, 5.	0.1	2
133	Microstructure Evolution during Lithiation and Delithiation of Ni ₃ Sn ₂ Anode for Lithium Secondary Batteries. Advanced Materials Research, 2007, 26-28, 225-228.	0.3	2
134	Defect Generation in Some Transition-Metal Silicides in Accommodating the Deviation from the Stoichiometric Compositions. Materials Science Forum, 2007, 561-565, 443-446.	0.3	2
135	Identification of the Chirality and Polarity of Intermetallic Compounds with the Point Groups of 23, 432, 422, and 321 by Electron Diffraction. Materials Science Forum, 2007, 539-543, 1457-1462.	0.3	2
136	Microstructures and Mechanical Properties of Co ₃ (Al,W) with the L12 Structure. Materials Research Society Symposia Proceedings, 2008, 1128, 52601.	0.1	2
137	Crystal Structure Evolution of La ₂ Ni ₇ during Hydrogenation. Materials Research Society Symposia Proceedings, 2013, 1516, 183-188.	0.1	2
138	Comprehensive Phase Field Study on Directionally-Solidified MoSi ₂ /Mo ₅ Si ₃ Eutectic Alloy. Materials Science Forum, 0, 1016, 749-754.	0.3	2
139	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.		2
140	Deformation of Diffusion-Bonded Bi-Pst and Directionally Solidified Crystals of TiAl. Materials Research Society Symposia Proceedings, 1996, 460, 53.	0.1	1
141	Plane Strain Compression of Single Crystalline Ni ₃ Al-Base Intermetallic Compounds. Materials Science Forum, 2005, 495-497, 767-774.	0.3	1
142	Control of the Si Vacancy Concentration and Arrangement in ReSi _{1.75} by Al and P Additions. Materials Research Society Symposia Proceedings, 2006, 980, 40.	0.1	1
143	Synthesis of Magnetic Nanoparticles by Sputtering. Materials Research Society Symposia Proceedings, 2006, 980, 45.	0.1	1
144	Microstructures and Hydrogen Permeability of Nb-NiTi Eutectic Alloys Prepared by Directional Solidification. Materials Research Society Symposia Proceedings, 2006, 980, 52.	0.1	1

#	ARTICLE	IF	CITATIONS
145	Elastic Properties of L1 ₀ -Ordered Single Crystals. Advanced Materials Research, 2007, 26-28, 221-224.	0.3	1
146	Effect of Creep Deformation on the Crystallographic Orientation Distribution in Ni Base Superalloy. Advanced Materials Research, 2007, 26-28, 213-216.	0.3	1
147	Crystal Structure Variation of Ru ₂ Si ₃ Upon Alloying with Mn. Advanced Materials Research, 2007, 26-28, 229-232.	0.3	1
148	Plastic Deformations in L1 ₀ -Ordered Single Crystals with their c/a Ratios Less than Unity. Materials Science Forum, 2007, 561-565, 459-462.	0.3	1
149	Mechanical and Thermal Properties of Single Crystals of Some Thermoelectric Clathrate Compounds. Materials Research Society Symposia Proceedings, 2008, 1128, 11101.	0.1	1
150	Physical and Mechanical Properties of Single Crystals of Co-Al-W Based Alloys with L12 Single-Phase and L12/fcc Two-Phase Microstructures. Materials Research Society Symposia Proceedings, 2008, 1128, 60701.	0.1	1
151	Plastic Deformations in Single Crystals of FePd with the L10 Structure. Materials Research Society Symposia Proceedings, 2008, 1128, 90701.	0.1	1
152	Improvement of the Thermoelectric Properties of the Chimney-Ladder Compounds in the Ru-Mn-Si System. Materials Research Society Symposia Proceedings, 2009, 1218, 1.	0.1	1
153	Texture Development during Recrystallization and Grain Growth in Heavily Cold-rolled Intermetallics. Materia Japan, 2009, 48, 452-457.	0.1	1
154	Improvement of Thermoelectric Properties of Chimney-ladder Compounds through the Introduction of PBET Interfaces. Materia Japan, 2011, 50, 149-151.	0.1	1
155	Slip System Analysis in the Cold Rolling of a Ni ₃ Al Single Crystal. Materials Science Forum, 0, 783-786, 1111-1116.	0.3	1
156	Ductile Thin Foils of Ni ₃ Al. , 2001, , 248-261.		1
157	Plastic deformation of bulk and micropillar single crystals of Mo ₅ Si ₃ with the tetragonal D8 structure. International Journal of Plasticity, 2022, , 103339.	4.1	1
158	EIW volume 10 issue 9 Cover and Back matter. Worldview, 1967, 10, b1-b1.	0.0	0
159	Deformation of Bi-PST Crystals of TiAl Produced by Diffusion Bonding. Materials Research Society Symposia Proceedings, 1998, 552, 1.	0.1	0
160	Investigating Atomic Scale Phenomena at Materials Interfaces With Correlated Techniques in STEM/TEM. Materials Research Society Symposia Proceedings, 1999, 589, 311.	0.1	0
161	Ni ₃ Al Thin Foil by Cold Rolling. Materials Research Society Symposia Proceedings, 2000, 646, 288.	0.1	0
162	Orientation Dependence of the Texture Evolution in Cold-Rolled Thin Foils of Ni ₃ Al Single Crystals. Materials Research Society Symposia Proceedings, 2002, 753, 1.	0.1	0

#	ARTICLE	IF	CITATIONS
163	Bending Ductility of Heavily Cold-Rolled Ni ₃ Al Thin Foils. Materials Research Society Symposia Proceedings, 2002, 753, 1.	0.1	0
164	Microstructures and Tensile Properties of Cold-rolled Thin Foils of Binary Ni-Al β/β' Alloys. Materials Research Society Symposia Proceedings, 2002, 753, 1.	0.1	0
165	Characterization and Catalytic Properties of Ni ₃ Al for Hydrogen Production from Methanol. Materials Research Society Symposia Proceedings, 2004, 842, 191.	0.1	0
166	Defect Control and Defect Engineering of Transition-metal Silicides. Materials Research Society Symposia Proceedings, 2006, 980, 1.	0.1	0
167	Evaluation of the Stability of Raft Structure in Nickel Base Superalloys Throughout their Lifetime. Materials Research Society Symposia Proceedings, 2006, 980, 8.	0.1	0
168	Texture Memory Effect During Heat Treatment in the Heavily Cold Rolled Ni ₃ Al Foils. Materials Research Society Symposia Proceedings, 2006, 980, 9.	0.1	0
169	Crystal Structures and Thermoelectric Properties of Ru _{1-x} Re _x Si _y Chimney-Ladder Compounds. Materials Research Society Symposia Proceedings, 2006, 980, 37.	0.1	0
170	The Broadening of Crystallographic Orientation Distribution in Crept Ni-base Superalloys. Materials Research Society Symposia Proceedings, 2006, 980, 28.	0.1	0
171	Influences of Microstructures of the Cathode/Electrolyte Interface on the Electrochemical Properties of All Solid-State Li-ion Batteries. Materials Research Society Symposia Proceedings, 2006, 972, 1.	0.1	0
172	Crystal structure and atomic vibration of Ba-Ge based type-III clathrate compounds. , 2007, , .		0
173	Variation in the Einstein Temperature of Guest Atoms in Ba-Ge-X type-III Clathrate Compounds. Materials Research Society Symposia Proceedings, 2007, 1044, 1.	0.1	0
174	Improvement of Battery Performance by Surface Modification of Crystalline Solid Electrolyte for All Solid-State Lithium Batteries. ECS Transactions, 2007, 6, 1-4.	0.3	0
175	Hydrogen Permeation Properties of Nb-Based Two-Phase Compounds. Materials Science Forum, 2007, 561-565, 467-470.	0.3	0
176	Effect of Applied External Stress on Hydrogen Desorption from Metal Hydrides. Advanced Materials Research, 2007, 26-28, 217-220.	0.3	0
177	Nucleation Mechanism of $40^\circ\langle 111 \rangle$ Rotated Grains during Recrystallization in Heavily Cold-Rolled Ni ₃ Al Single Crystals. Materials Science Forum, 2007, 558-559, 183-188.	0.3	0
178	Crystal Structure and Thermoelectric Properties of Mn-Substituted Ru ₂ Si ₃ with the Chimney-Ladder Structure. Materials Research Society Symposia Proceedings, 2008, 1128, 50101.	0.1	0
179	Plastic Deformation Behavior of Ti ₅ Si ₃ Single Crystals. Materials Research Society Symposia Proceedings, 2008, 1128, 90601.	0.1	0
180	Constrained Deformation of TiAl PST Crystals. Materials Research Society Symposia Proceedings, 2009, 1225, 30701.	0.1	0

#	ARTICLE	IF	CITATIONS
181	Direct observation of an ordered arrangement of vacancies and large local thermal vibration in rhenium silicide by Cs-corrected STEM. Materials Research Society Symposia Proceedings, 2011, 1295, 397.	0.1	0
182	Crystal Structure Analysis of ReSi _{1.75} . Materia Japan, 2005, 44, 969-969.	0.1	0
183	Composition Analysis of Atomistic Site Levels in ReSiAl. Materia Japan, 2006, 45, 870-870.	0.1	0
184	Change in the Thermoelectric Properties with the Variation in the Defect Structure of ReSi _{1.75} . , 2008, , .		0