

Katsushi Tanaka

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papers

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170

ext. papers

10,169

ext. citations

3.4

avg, IF

5.75

L-index

#	Paper	IF	Citations
166	Average stress in matrix and average elastic energy of materials with misfitting inclusions. <i>Acta Metallurgica</i> , 1973 , 21, 571-574		5553
165	Size effect, critical resolved shear stress, stacking fault energy, and solid solution strengthening in the CrMnFeCoNi high-entropy alloy. <i>Scientific Reports</i> , 2016 , 6, 35863	4.9	232
164	A comparative study of elastic constants of TiNi-based alloys prior to martensitic transformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 312, 196-206	5.3	210
163	Effects of quaternary alloying elements on the δ 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
162	Physical and mechanical properties of single crystals of the T2 phase in the MoSiB system. <i>Intermetallics</i> , 2001 , 9, 591-602	3.5	127
161	Thermoelectric properties and crystallographic shear structures in titanium oxides of the Magn δ phases. <i>Journal of Applied Physics</i> , 2010 , 108, 083703	2.5	120
160	Atomic displacement in the CrMnFeCoNi high-entropy alloy Δ scaling factor to predict solid solution strengthening. <i>AIP Advances</i> , 2016 , 6, 125008	1.5	118
159	Single-crystal elastic constants of intermetallic compounds. <i>Intermetallics</i> , 1996 , 4, S29-S39	3.5	115
158	Temperature dependence of thermal expansion and elastic constants of single crystals of ZrB ₂ and the suitability of ZrB ₂ as a substrate for GaN film. <i>Journal of Applied Physics</i> , 2003 , 93, 88-93	2.5	114
157	Anisotropic elastic constants and thermal expansivities in monocrystal CrB ₂ , TiB ₂ , and ZrB ₂ . <i>Acta Materialia</i> , 2010 , 58, 76-84	8.4	108
156	Single-crystal elastic constants of gamma-TiAl. <i>Philosophical Magazine Letters</i> , 1996 , 73, 71-78	1	94
155	Creep deformation of single crystals of new CoAlW-based alloys with fcc/L12 two-phase microstructures. <i>Philosophical Magazine</i> , 2012 , 92, 4011-4027	1.6	93
154	Elastic constants and their temperature dependence for the intermetallic compound Ti ₃ Al. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1996 , 73, 1475-1488		91
153	Mechanical properties of Mo ₅ SiB ₂ single crystals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 329-331, 222-227	5.3	87
152	Elastic constants of Al-based icosahedral quasicrystals. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1996 , 73, 1715-1723		86
151	Single-crystal elastic constants of Co ₃ (Al,W) with the L12 structure. <i>Applied Physics Letters</i> , 2007 , 91, 181907	3.4	79
150	Rafting mechanism for Ni-base superalloy under external stress: elastic or elastic-plastic phenomena?. <i>Acta Materialia</i> , 2003 , 51, 4033-4044	8.4	72

149	Refinement of crystallographic parameters in transition metal disilicides with the C11b, C40 and C54 structures. <i>Intermetallics</i> , 2001 , 9, 603-607	3.5	66
148	Effect of external fields on ordering of FePd. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 312, 118-127	5.3	65
147	High thermoelectric performance of type-III clathrate compounds of the Ba ₈ Ge ₄ Te ₄ system. <i>Acta Materialia</i> , 2006 , 54, 2057-2062	8.4	64
146	Crystal Structure, Solubility, and Mutarotation of the Rare Monosaccharide D- Psicose. <i>Bulletin of the Chemical Society of Japan</i> , 2010 , 83, 1193-1197	5.1	52
145	Atomic structures and energetics of LaNi ₅ H solid solution and hydrides. <i>Physical Review B</i> , 2001 , 64,	3.3	51
144	Understanding the martensitic transformations in TiNi-based alloys by elastic constants measurement. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 273-275, 190-194	5.3	51
143	Kinetics of cubic to tetragonal transformation under external field by the time-dependent Ginzburg-Landau approach. <i>Physical Review B</i> , 2000 , 62, 5435-5441	3.3	50
142	Lattice dynamics and migration enthalpies in CoPt ₃ and FePd. <i>Physical Review B</i> , 2004 , 69,	3.3	49
141	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
140	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
139	Microstructures and hydrogen permeability of directionally solidified Nb ₃ Ni ₇ Ti alloys with the Nb ₃ Ni ₇ Ti eutectic microstructure. <i>Intermetallics</i> , 2008 , 16, 88-95	3.5	47
138	Crystal structure and thermoelectric properties of type-I clathrate compounds in the Ba ₈ Ge ₄ Te ₄ system. <i>Journal of Applied Physics</i> , 2006 , 100, 073504	2.5	47
137	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
136	Elastic and anelastic behavior of Zr ₅₅ Al ₁₀ Ni ₅ Cu ₃₀ bulk metallic glass around the glass transition temperature under ultrasonic excitation. <i>Scripta Materialia</i> , 2003 , 49, 267-271	5.6	46
135	Glass-liquid transition in a less-stable metallic glass. <i>Physical Review B</i> , 2005 , 72,	3.3	45
134	Elastic constants of Ti ₅₀ Ni ₃₀ Cu ₂₀ alloy prior to martensitic transformation. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1999 , 79, 31-41		41
133	Re-examination of Phase Diagram of Fe-Pt System. <i>Materials Transactions</i> , 2003 , 44, 2723-2731	1.3	33
132	Chemical Diffusion in L10-Ordered FePt. <i>Materials Transactions</i> , 2003 , 44, 59-62	1.3	31

131	Evaluation of elastic strain energy associated with the formation of hydride precipitates in LaNi ₅ . <i>Intermetallics</i> , 2000 , 8, 613-618	3.5	31
130	Effect of Applied Stress on fcc-L10 Transformation of FePd Single Crystal. <i>Materials Transactions, JIM</i> , 1998 , 39, 24-30		31
129	Single-crystal elastic constants of disordered and ordered FePd. <i>Journal of Applied Physics</i> , 2004 , 96, 6220-6223	2.5	28
128	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
127	Self-Diffusion in L12-Type Intermetallic Compounds Ni ₃ Ge and Ni ₃ Ga. <i>Defect and Diffusion Forum</i> , 1997 , 143-147, 269-274	0.7	26
126	Crystal structure refinement of a type-I clathrate compound BaGe with an ordered arrangement of germanium vacancies. <i>Acta Materialia</i> , 2006 , 54, 173-178	8.4	26
125	Elastic anisotropy of rafted Ni-base superalloy at high temperatures. <i>Acta Materialia</i> , 2003 , 51, 4863-4869	8.4	26
124	Formation of Mono-variant L10 Structure on Ordering of FePd under Magnetic Fields. <i>Materials Transactions, JIM</i> , 2000 , 41, 917-922		26
123	Crystal structure and thermoelectric properties of the type-I clathrate compound Ba ₈ Ge ₄₃ with an ordered arrangement of Ge vacancies. <i>Journal of Applied Physics</i> , 2006 , 99, 033513	2.5	25
122	Directional atomic bonds in MoSi ₂ and other transition-metal disilicides with the C11b, C40 and C54 structures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 261, 158-164	5.3	25
121	Structure refinement of the β phase in the Fe-Zn system by single-crystal X-ray diffraction combined with scanning transmission electron microscopy. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2014 , 70, 275-82	1.8	24
120	Single-crystal elastic constants of MoSi ₂ with the C11b structure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997 , 239-240, 188-194	5.3	24
119	Thermoelectric properties of ternary and Al-containing quaternary Ru _{1-x} Re _x Siy chimney-ladder compounds. <i>Acta Materialia</i> , 2009 , 57, 2010-2019	8.4	22
118	Mechanical and thermal properties of single crystals of the type-I clathrate compounds Ba ₈ Ga ₁₆ Ge ₃₀ and Sr ₈ Ga ₁₆ Ge ₃₀ . <i>Journal of Applied Physics</i> , 2008 , 104, 013529	2.5	22
117	Elastic Properties of High-Temperature Intermetallics. <i>High Temperature Materials and Processes</i> , 1999 , 18, 323-336	0.9	22
116	Splitting of guest atom sites and lattice thermal conductivity of type-I and type-III clathrate compounds in the Ba ₈ Ga ₁₆ Ge system. <i>Acta Materialia</i> , 2006 , 54, 5519-5528	8.4	21
115	Elastic constants and chemical bonding of LaNi ₅ and LaNi ₅ H ₇ by first principles calculations. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, 6549-6561	1.8	21
114	Enantiomorph identification of transition-metal disilicides with the C40 structure (the space group of P6222 and P6422) by new convergent-beam electron diffraction method. <i>Acta Materialia</i> , 2005 , 53, 41-52	8.4	19

113	Microstructure of the LiCoO ₂ (cathode)/La ₂ /3xLi ₃ TiO ₃ (electrolyte) interface and its influences on the electrochemical properties. <i>Acta Materialia</i> , 2007 , 55, 4713-4722	8.4	18
112	Formation of a series of chimney ladder compounds in the RuReSi system. <i>Acta Materialia</i> , 2006 , 54, 2857-2865	8.4	18
111	Elasticity and anelasticity of metallic glass near the glass transition temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 442, 278-282	5.3	18
110	Elastic constant measurement of Ni-base superalloy with the RUS and mode selective EMAR methods. <i>Ultrasonics</i> , 2002 , 40, 211-5	3.5	18
109	New electron diffraction method to identify the chirality of enantiomorphic crystals. <i>Acta Crystallographica Section B: Structural Science</i> , 2003 , 59, 802-10		18
108	Defect structures in TaSi ₂ thin films produced by co-sputtering. <i>Acta Materialia</i> , 2003 , 51, 2285-2296	8.4	17
107	Interpretation in elastic regime for rafting of Ni-base superalloy based on the external-stress-free dimensional change due to internal-stress equilibration. <i>Acta Materialia</i> , 2005 , 53, 4497-4504	8.4	17
106	Crystal structure and thermoelectric properties of type-III clathrate compounds in the BaAl ₄ Ge system. <i>Journal of Applied Physics</i> , 2007 , 102, 094506	2.5	16
105	Physical and mechanical properties of single crystals of the Mo ₅ Si ₃ C phase. <i>Intermetallics</i> , 2003 , 11, 835-840	3.4	16
104	Monocrystalline elastic constants and their temperature dependences for equi-atomic Cr-Mn-Fe-Co-Ni high-entropy alloy with the face-centered cubic structure. <i>Journal of Alloys and Compounds</i> , 2019 , 777, 1313-1318	5.7	16
103	Temperature dependence of single-crystal elastic constants of Mo(Si,Al) ₂ . <i>Intermetallics</i> , 1998 , 6, 607-613	3.5	15
102	Defect and electronic structures in TiSi ₂ thin films produced by co-sputtering Part 1: Defect analysis by transmission electron microscopy. <i>Acta Materialia</i> , 2001 , 49, 83-92	8.4	15
101	Elastic Constants of Ti-48 at%Ni-2 at%Fe Single Crystal Prior to B ₂ →R Transformation. <i>Materials Transactions, JIM</i> , 1999 , 40, 385-388		15
100	Crystal and defect structures of La ₂ /3 xLi ₃ TiO ₃ (x ~ 0.1) produced by a melt process. <i>Journal of Electron Microscopy</i> , 2007 , 56, 225-34		13
99	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
98	Compression of Micropillars of TiAl Coexisting with Ti ₃ Al. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1295, 201		12
97	Diffusion of Al and Al-Substituting Elements in Ni ₃ Al at Elevated Temperatures. <i>Materials Transactions</i> , 2012 , 53, 2111-2118	1.3	12
96	Thermoelectric properties and crystal structure of type-III clathrate compounds in the BaAl ₄ Ge system. <i>Journal of Applied Physics</i> , 2007 , 102, 034510	2.5	11

95	Shape memory characteristics in the L1 0 -fcc order-disorder transformation of FePd. <i>Philosophical Magazine</i> , 2003 , 83, 1797-1806	1.6	11
94	Evolution of Internal Stress Field in Ni-Base Superalloy through Creep Deformation. <i>Materials Science Forum</i> , 2005 , 475-479, 619-622	0.4	11
93	The effect of Nb and W alloying additions to the thermal expansion anisotropy and elastic properties of Mo5Si3. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005 , 36, 533-538	2.3	10
92	Atomic migration and ordering energies in FePd: Measurement and modeling. <i>Scripta Materialia</i> , 2005 , 53, 435-440	5.6	9
91	Role of Annealing Twin in the Formation of Variant Structure of bct Martensite in Fe–Pd Alloy. <i>Materials Transactions, JIM</i> , 1991 , 32, 325-330		9
90	Origin of Tetragonality of BCT Martensite in Substitutional Fe–Pd(–Ni) Disordered Alloys. <i>Materials Transactions, JIM</i> , 1992 , 33, 215-219		9
89	Monocrystalline elastic constants of fcc-CrMnFeCoNi high entropy alloy. <i>MRS Advances</i> , 2017 , 2, 1429-1434		8
88	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
87	Formation probability for enantiomorphic crystals (with the space groups of P6222 and P6422) in transition-metal disilicides with the C40 structure as determined by convergent-beam electron diffraction. <i>Intermetallics</i> , 2007 , 15, 245-252	3.5	8
86	Effects of External Magnetic Field on FePt Films during Heat Treatment. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 273-276	1.4	8
85	Effects of annealing on hardness, yield strength and dislocation structure in single crystals of the equiatomic Cr-Mn-Fe-Co-Ni high entropy alloy. <i>Scripta Materialia</i> , 2021 , 191, 173-178	5.6	8
84	Structural and Thermoelectric Properties of Chimneyladder Compounds in the Ru-Mn-Si System. <i>Journal of Electronic Materials</i> , 2010 , 39, 1640-1644	1.9	7
83	Low-temperature elastic moduli of a Pd-based metallic glass showing positive phonon dispersion. <i>Physical Review B</i> , 2008 , 78,	3.3	7
82	Configurational free energy in order-disorder transitions from Monte Carlo calculations for systems under external fields. <i>Physical Review B</i> , 1999 , 60, 9198-9201	3.3	7
81	Crystal structure refinement of ReSi1.75 with an ordered arrangement of silicon vacancies. <i>Philosophical Magazine</i> , 2011 , 91, 3108-3127	1.6	6
80	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	0.4	6
79	Mechanical Properties of the Ternary L12 Compound Co3(Al,W) in Single and Polycrystalline Forms. <i>Advanced Materials Research</i> , 2011 , 278, 1-6	0.5	6
78	Crystal structure and thermoelectric properties of ReSi1.75 silicide. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 753, 1		6

77	Appropriate zone-axis orientations for the determination of crystal polarity by convergent-beam electron diffraction. <i>Journal of Applied Crystallography</i> , 2015 , 48, 736-746	3.8	5
76	Evolution of orientation distributions of γ and δ phases during creep deformation of Ni-base single crystal superalloys. <i>Acta Materialia</i> , 2009 , 57, 1078-1085	8.4	5
75	Morphology change of δ precipitates in γ/δ two-phase microstructure in Co-based superalloys by higher-order alloying. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1295, 423		5
74	Crystal Structure and Thermoelectric Properties of ReSi _{1.75} Based Alloys. <i>Advanced Materials Research</i> , 2007 , 26-28, 197-200	0.5	5
73	Enantiomorph identification of crystals belonging to the point groups of 622 and 6 by convergent-beam electron diffraction method. <i>Intermetallics</i> , 2007 , 15, 154-167	3.5	5
72	Reduction of the C49-C54 phase transformation temperature in co-sputtered TiSi ₂ thin films by ternary alloying. <i>Intermetallics</i> , 2003 , 11, 417-424	3.5	5
71	Arrangements of Fe-Centered Zn ₁₂ Icosahedra in Fe-Zn Intermetallic Compounds Determined by Ultra-High Resolution Scanning Transmission Electron Microscopy. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1760, 13		4
70	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
69	Mechanical Properties of Cr ₅ Si ₃ with the D8 _m Structure. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1295, 213		4
68	Thermoelectric Properties of Ru ₂ Si ₃ -Based Chimney-Ladder Phases. <i>Materials Science Forum</i> , 2007 , 561-565, 463-466	0.4	4
67	Elastic constants of some intermetallic compounds as determined by the rectangular parallelepiped resonance method. <i>Journal of Alloys and Compounds</i> , 1994 , 211-212, 585-588	5.7	4
66	Distribution of Alloying Quadrivalent Zirconium in TiO ₂ Magn δ Phase. <i>Materials Transactions</i> , 2019 , 60, 2199-2203	1.3	4
65	Improvement in High Temperature Oxidation Resistance of Co-Al-W Based Superalloys. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1760, 222		3
64	Effects of Alloying Elements on Physical and Mechanical Properties of Co-Al-W-Based L1 ₂ /fcc Two-Phase Alloys. <i>Materials Science Forum</i> , 2014 , 783-786, 1195-1200	0.4	3
63	Evolution of Raft Structure during Creep Deformation of the Ni-Based Single-Crystal Superalloy TMS-138. <i>Advanced Materials Research</i> , 2011 , 278, 19-24	0.5	3
62	Diffusion of Ti, V and Nb in Ni ₃ Al at Elevated Temperatures. <i>Defect and Diffusion Forum</i> , 2010 , 297-301, 384-389	0.7	3
61	Atomic Migration in Bulk and Thin Film L1 ₀ Alloys: Experiments and Molecular Dynamics Simulations. <i>Defect and Diffusion Forum</i> , 2007 , 263, 41-50	0.7	3
60	Inelastic neutron scattering and migration energies in FePd. <i>Catalysis Today</i> , 2004 , 89, 313-318	5.3	3

59	Elastic and Thermal Expansion Anisotropy of Mo-Based 5-3 Silicides. <i>Materials Science Forum</i> , 2005 , 475-479, 695-698	0.4	3
58	Direct Observation of Vacancies and Local Thermal Vibration in Thermoelectric Rhenium Silicide. <i>Applied Physics Express</i> , 2012 , 5, 035203	2.4	2
57	Enantiomorph identification of crystals belonging to the point groups 321 and 312 by convergent-beam electron diffraction. <i>Journal of Applied Crystallography</i> , 2007 , 40, 241-249	3.8	2
56	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
55	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
54	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
53	Identification of Chirality of Enantiomorphous TaSi ₂ Crystallites by Convergent-Beam Electron Diffraction. <i>Materials Science Forum</i> , 2003 , 426-432, 1783-1788	0.4	2
52	Geometry and energy barrier of martensite in the initial stage martensitic transformation in B19' TiNi shape memory alloy. <i>Acta Materialia</i> , 2020 , 201, 94-101	8.4	2
51	Effect of Elastic Driving Force on the Evolution of Microstructures in the Secondary Creep Stage. <i>Advanced Materials Research</i> , 2011 , 278, 126-131	0.5	1
50	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
49	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
48	Enantiomorph identification and stacking faults in β -(BEDT-TTF) ₂ Cu(NCS) ₂ by convergent-beam electron diffraction. <i>Journal of Applied Crystallography</i> , 2009 , 42, 433-441	3.8	1
47	Enantiomorph identification in organic crystals by electron diffraction. <i>Journal of Physics: Conference Series</i> , 2009 , 165, 012017	0.3	1
46	Mechanical and Thermal Properties of Single Crystals of Some Thermoelectric Clathrate Compounds. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1128, 11101		1
45	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
44	Plastic Deformations in Single Crystals of FePd with the L10 Structure. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1128, 90701		1
43	Internal Stress Field in Ultrafine Grained Aluminium Fabricated by Accumulative Roll-Bonding. <i>Materials Science Forum</i> , 2006 , 512, 123-128	0.4	1
42	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

41	Thermoelectric properties of Ba-Ge based Type-III Clathrate Compounds. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 980, 5		1
40	Synthesis of Magnetic Nanoparticles by Sputtering. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 980, 45		1
39	Elastic Properties of L10-Ordered Single Crystals. <i>Advanced Materials Research</i> , 2007 , 26-28, 221-224	0.5	1
38	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
37	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
36	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
35	Defect structures in cosputtered thin films of transition-metal disilicides with C11 b , C40 and C54 structures. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004 , 35, 2229-2238	2.3	1
34	twins in Mo-doped TiSi ₂ thin films with the C54 structure. <i>Philosophical Magazine</i> , 2003 , 83, 1463-1478	1.6	1
33	Thermal fluctuation for the time-dependent Ginzburg-Landau simulation. <i>Physical Review E</i> , 2001 , 63, 060101	2.4	1
32	Mechanical and thermal properties of single crystals of ZrB ₂ . <i>Materials Research Society Symposia Proceedings</i> , 2002 , 753, 1		1
31	Fe tracer diffusion in L10 ordered FePt. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 753, 1		1
30	Effects of elastic strain energies on a hydride precipitation in LaNi ₅ -based compounds. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 753, 1		1
29	Madelung energy of metal-metalloid compounds. <i>Computational Materials Science</i> , 1999 , 14, 62-66	3.2	1
28	Experimental determination of effective atomic radii of constituent elements in CrMnFeCoNi high-entropy alloy. <i>Philosophical Magazine Letters</i> , 1-11	1	1
27	Elastic constants of Ti ₅₀ Ni ₃₀ Cu ₂₀ alloy prior to martensitic transformation		1
26	Microstructural change of monocrystalline Co-Al-W-based γ/γ' two phase alloys by high temperature creep 2013 , 409-414		1
25	Shape Memory Effect through L10-fcc Order-Disorder Transition. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 842, 166		0
24	Composition dependence of positive temperature dependence of yield stress for Co ₃ (Al, W) ₁₀ Ti pseudo-binary alloy with the L12 structure. <i>Intermetallics</i> , 2021 , 136, 107250	3.5	0

- 23 Difference in elastic properties of CrB₂ determined by microscopic and macroscopic measurements. *Materials Research Society Symposia Proceedings*, **2013**, 1528, 1
- 22 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
- 21 Microstructural evolution of monocrystalline Co₃Al₁₀-based superalloys by high-temperature creep deformation. *Materials Research Society Symposia Proceedings*, **2012**, 1516, 221-226
- 20 Crystal Structure and Thermoelectric Properties of Mn-Substituted Ru₂Si₃ with the Chimney-Ladder Structure. *Materials Research Society Symposia Proceedings*, **2008**, 1128, 50101
- 19 Defect Control and Defect Engineering of Transition-metal Silicides. *Materials Research Society Symposia Proceedings*, **2006**, 980, 1
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