

# Katsushi Tanaka

## 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.

166  
papers

9,313  
citations

33  
h-index

96  
g-index

170  
ext. papers

10,169  
ext. citations

3.4  
avg. IF

5.75  
L-index

#	Paper	IF	Citations
166	Elastic interaction energy analysis during twin plane formation in the martensitic transformation process of $\beta$ -martensite in Ti-Nb-Al. <i>Materialia</i> , <b>2022</b> , 101420	3.2	
165	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> , <b>2021</b> , 191, 173-178	5.6	8
164	Composition dependence of positive temperature dependence of yield stress for $\text{Co}_3(\text{Al}, \text{W})\text{Ti}$ pseudo-binary alloy with the L12 structure. <i>Intermetallics</i> , <b>2021</b> , 136, 107250	3.5	0
163	Geometry and energy barrier of martensite in the initial stage martensitic transformation in B19' TiNi shape memory alloy. <i>Acta Materialia</i> , <b>2020</b> , 201, 94-101	8.4	2
162	Distribution of Alloying Quadrivalent Zirconium in $\text{TiO}_2$ -Magn' Phase. <i>Materials Transactions</i> , <b>2019</b> , 60, 2199-2203	1.3	4
161	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> , <b>2019</b> , 777, 1313-1318	5.7	16
160	Monocrystalline elastic constants of fcc-CrMnFeCoNi high entropy alloy. <i>MRS Advances</i> , <b>2017</b> , 2, 1429-1434	3.4	8
159	Effects of lattice misfit on plastic deformation behavior of single-crystalline micropillars of Ni-based superalloys. <i>Acta Materialia</i> , <b>2017</b> , 138, 119-130	8.4	26
158	Size effect, critical resolved shear stress, stacking fault energy, and solid solution strengthening in the CrMnFeCoNi high-entropy alloy. <i>Scientific Reports</i> , <b>2016</b> , 6, 35863	4.9	232
157	Atomic displacement in the CrMnFeCoNi high-entropy alloy $\Delta$ scaling factor to predict solid solution strengthening. <i>AIP Advances</i> , <b>2016</b> , 6, 125008	1.5	118
156	Appropriate zone-axis orientations for the determination of crystal polarity by convergent-beam electron diffraction. <i>Journal of Applied Crystallography</i> , <b>2015</b> , 48, 736-746	3.8	5
155	Improvement in High Temperature Oxidation Resistance of Co-Al-W Based Superalloys. <i>Materials Research Society Symposia Proceedings</i> , <b>2015</b> , 1760, 222		3
154	Arrangements of Fe-Centered Zn <sub>12</sub> Icosahedra in Fe-Zn Intermetallic Compounds Determined by Ultra-High Resolution Scanning Transmission Electron Microscopy. <i>Materials Research Society Symposia Proceedings</i> , <b>2015</b> , 1760, 13		4
153	Structure refinement of the $\beta$ 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> , <b>2014</b> , 70, 275-82	1.8	24
152	Effects of Alloying Elements on Physical and Mechanical Properties of Co-Al-W-Based L12/fcc Two-Phase Alloys. <i>Materials Science Forum</i> , <b>2014</b> , 783-786, 1195-1200	0.4	3
151	Difference in elastic properties of CrB <sub>2</sub> determined by microscopic and macroscopic measurements. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1528, 1		
150	Microstructural change of monocrystalline Co-Al-W-based $\beta$ two phase alloys by high temperature creep <b>2013</b> , 409-414		1

149	Creep deformation of single crystals of new CoAlW-based alloys with fcc/L12 two-phase microstructures. <i>Philosophical Magazine</i> , <b>2012</b> , 92, 4011-4027	1.6	93
148	Microstructural evolution of monocrystalline CoAlW-based superalloys by high-temperature creep deformation. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1516, 221-226		
147	Direct Observation of Vacancies and Local Thermal Vibration in Thermoelectric Rhenium Silicide. <i>Applied Physics Express</i> , <b>2012</b> , 5, 035203	2.4	2
146	Diffusion of Al and Al-Substituting Elements in Ni3Al at Elevated Temperatures. <i>Materials Transactions</i> , <b>2012</b> , 53, 2111-2118	1.3	12
145	Crystal structure refinement of ReSi1.75 with an ordered arrangement of silicon vacancies. <i>Philosophical Magazine</i> , <b>2011</b> , 91, 3108-3127	1.6	6
144	Physical and Mechanical Properties of Co3(Al,W) with the L12 Structure in Single and Polycrystalline Forms. <i>Key Engineering Materials</i> , <b>2011</b> , 465, 9-14	0.4	4
143	Effect of Elastic Driving Force on the Evolution of Microstructures in the Secondary Creep Stage. <i>Advanced Materials Research</i> , <b>2011</b> , 278, 126-131	0.5	1
142	Evolution of Raft Structure during Creep Deformation of the Ni-Based Single-Crystal Superalloy TMS-138. <i>Advanced Materials Research</i> , <b>2011</b> , 278, 19-24	0.5	3
141	Improvement of Thermoelectric Properties of Chimney-ladder Compounds through the Introduction of PBET Interfaces. <i>Materia Japan</i> , <b>2011</b> , 50, 149-151	0.1	1
140	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> , <b>2011</b> , 1295, 397		
139	Mechanical Properties of Cr5Si3 with the D8m Structure. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1295, 213		4
138	Compression of Micropillars of TiAl Coexisting with Ti3Al. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1295, 201		12
137	Mechanical Properties of the Ternary L12 Compound Co3(Al,W) in Single and Polycrystalline Forms. <i>Advanced Materials Research</i> , <b>2011</b> , 278, 1-6	0.5	6
136	Morphology change of $\gamma'$ precipitates in $\gamma/\gamma'$ two-phase microstructure in Co-based superalloys by higher-order alloying. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1295, 423		5
135	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> , <b>2010</b> , 638-642, 1342-1347	0.4	6
134	Pressure induced phase transformation of Ba8Ga16Ge30 clathrate studied by x-ray diffraction and Raman spectroscopy. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 013517	2.5	12
133	Diffusion of Ti, V and Nb in Ni3Al at Elevated Temperatures. <i>Defect and Diffusion Forum</i> , <b>2010</b> , 297-301, 384-389	0.7	3
132	Thermoelectric properties and crystallographic shear structures in titanium oxides of the Magn $\delta$ phases. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 083703	2.5	120

131	Effects of quaternary alloying elements on the $\delta$ solvus temperature of CoAlW based alloys with fcc/L12 two-phase microstructures. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 508, 71-78	5.7	152
130	Crystal Structure, Solubility, and Mutarotation of the Rare Monosaccharide D-Psicose. <i>Bulletin of the Chemical Society of Japan</i> , <b>2010</b> , 83, 1193-1197	5.1	52
129	Anisotropic elastic constants and thermal expansivities in monocrystal CrB <sub>2</sub> , TiB <sub>2</sub> , and ZrB <sub>2</sub> . <i>Acta Materialia</i> , <b>2010</b> , 58, 76-84	8.4	108
128	Plastic deformation of single crystals of Ti <sub>5</sub> Si <sub>3</sub> with the hexagonal D88 structure. <i>Acta Materialia</i> , <b>2010</b> , 58, 846-857	8.4	47
127	Structural and Thermoelectric Properties of Chimney-Ladder Compounds in the Ru-Mn-Si System. <i>Journal of Electronic Materials</i> , <b>2010</b> , 39, 1640-1644	1.9	7
126	Improvement of the Thermoelectric Properties of the Chimney-Ladder Compounds in the Ru-Mn-Si System. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1218, 1		1
125	Enantiomorph identification and stacking faults in $\alpha$ -(BEDT-TTF) <sub>2</sub> Cu(NCS) <sub>2</sub> by convergent-beam electron diffraction. <i>Journal of Applied Crystallography</i> , <b>2009</b> , 42, 433-441	3.8	1
124	Evolution of orientation distributions of $\gamma$ and $\delta$ phases during creep deformation of Ni-base single crystal superalloys. <i>Acta Materialia</i> , <b>2009</b> , 57, 1078-1085	8.4	5
123	Thermoelectric properties of ternary and Al-containing quaternary Ru <sub>1-x</sub> Re <sub>x</sub> Si <sub>y</sub> chimney-ladder compounds. <i>Acta Materialia</i> , <b>2009</b> , 57, 2010-2019	8.4	22
122	Crystal structure and thermoelectric properties of chimney-ladder compounds in the Ru <sub>2</sub> Si <sub>3</sub> Mn <sub>4</sub> Si <sub>7</sub> pseudobinary system. <i>Acta Materialia</i> , <b>2009</b> , 57, 5036-5045	8.4	48
121	Enantiomorph identification in organic crystals by electron diffraction. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 165, 012017	0.3	1
120	Microstructures and hydrogen permeability of directionally solidified Nb <sub>3</sub> NiTi alloys with the Nb <sub>3</sub> NiTi eutectic microstructure. <i>Intermetallics</i> , <b>2008</b> , 16, 88-95	3.5	47
119	Crystal Structure and Thermoelectric Properties of Mn-Substituted Ru <sub>2</sub> Si <sub>3</sub> with the Chimney-Ladder Structure. <i>Materials Research Society Symposia Proceedings</i> , <b>2008</b> , 1128, 50101		
118	Mechanical and thermal properties of single crystals of the type-I clathrate compounds Ba <sub>8</sub> Ga <sub>16</sub> Ge <sub>30</sub> and Sr <sub>8</sub> Ga <sub>16</sub> Ge <sub>30</sub> . <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 013529	2.5	22
117	Low-temperature elastic moduli of a Pd-based metallic glass showing positive phonon dispersion. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	7
116	Mechanical and Thermal Properties of Single Crystals of Some Thermoelectric Clathrate Compounds. <i>Materials Research Society Symposia Proceedings</i> , <b>2008</b> , 1128, 11101		1
115	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> , <b>2008</b> , 1128, 60701		1
114	Plastic Deformations in Single Crystals of FePd with the L10 Structure. <i>Materials Research Society Symposia Proceedings</i> , <b>2008</b> , 1128, 90701		1

113	Elastic instability condition of the raft structure during creep deformation in nickel-base superalloys. <i>Acta Materialia</i> , <b>2008</b> , 56, 3786-3790	8.4	8
112	Microstructure of the LiCoO <sub>2</sub> (cathode)/La <sub>2/3</sub> Li <sub>3</sub> TiO <sub>3</sub> (electrolyte) interface and its influences on the electrochemical properties. <i>Acta Materialia</i> , <b>2007</b> , 55, 4713-4722	8.4	18
111	Enantiomorph identification of crystals belonging to the point groups 321 and 312 by convergent-beam electron diffraction. <i>Journal of Applied Crystallography</i> , <b>2007</b> , 40, 241-249	3.8	2
110	Variation in the Einstein Temperature of Guest Atoms in Ba-Ge-X type-III Clathrate Compounds. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 1044, 1		
109	Crystal structure and thermoelectric properties of type-III clathrate compounds in the Ba <sub>16</sub> Ge system. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 094506	2.5	16
108	Thermoelectric properties and crystal structure of type-III clathrate compounds in the Ba <sub>16</sub> Ge system. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 034510	2.5	11
107	Effect of In additions on the thermoelectric properties of the type-I clathrate compound Ba <sub>8</sub> Ga <sub>16</sub> Ge <sub>30</sub> . <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 113525	2.5	46
106	Single-crystal elastic constants of Co <sub>3</sub> (Al,W) with the L12 structure. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 181907	3.4	79
105	Microstructure Evolution during Lithiation and Delithiation of Ni <sub>3</sub> Sn <sub>2</sub> Anode for Lithium Secondary Batteries. <i>Advanced Materials Research</i> , <b>2007</b> , 26-28, 225-228	0.5	2
104	Crystal Structure and Thermoelectric Properties of ReSi <sub>1.75</sub> Based Alloys. <i>Advanced Materials Research</i> , <b>2007</b> , 26-28, 197-200	0.5	5
103	Elastic Properties of L10-Ordered Single Crystals. <i>Advanced Materials Research</i> , <b>2007</b> , 26-28, 221-224	0.5	1
102	Hydrogen Permeation Properties of Nb-Based Two-Phase Compounds. <i>Materials Science Forum</i> , <b>2007</b> , 561-565, 467-470	0.4	
101	Thermoelectric Properties of Ru <sub>2</sub> Si <sub>3</sub> -Based Chimney-Ladder Phases. <i>Materials Science Forum</i> , <b>2007</b> , 561-565, 463-466	0.4	4
100	Effect of Applied External Stress on Hydrogen Desorption from Metal Hydrides. <i>Advanced Materials Research</i> , <b>2007</b> , 26-28, 217-220	0.5	
99	Effect of Creep Deformation on the Crystallographic Orientation Distribution in Ni Base Superalloy. <i>Advanced Materials Research</i> , <b>2007</b> , 26-28, 213-216	0.5	1
98	Atomic Migration in Bulk and Thin Film L10 Alloys: Experiments and Molecular Dynamics Simulations. <i>Defect and Diffusion Forum</i> , <b>2007</b> , 263, 41-50	0.7	3
97	Crystal Structure Variation of Ru <sub>2</sub> Si <sub>3</sub> Upon Alloying with Mn. <i>Advanced Materials Research</i> , <b>2007</b> , 26-28, 229-232	0.5	1
96	Defect Generation in Some Transition-Metal Silicides in Accommodating the Deviation from the Stoichiometric Compositions. <i>Materials Science Forum</i> , <b>2007</b> , 561-565, 443-446	0.4	2

95	Plastic Deformations in L10-Ordered Single Crystals with their c/a Ratios Less than Unity. <i>Materials Science Forum</i> , <b>2007</b> , 561-565, 459-462	0.4	1
94	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> , <b>2007</b> , 539-543, 1457-1462	0.4	2
93	Crystal and defect structures of $\text{La}_{2/3}\text{xLi}_3\text{xTiO}_3$ ( $x \sim 0.1$ ) produced by a melt process. <i>Journal of Electron Microscopy</i> , <b>2007</b> , 56, 225-34		13
92	Ba-Ga-Ge???. <i>Materia Japan</i> , <b>2007</b> , 46, 487-491	0.1	
91	Enantiomorph identification of crystals belonging to the point groups of 622 and 6 by convergent-beam electron diffraction method. <i>Intermetallics</i> , <b>2007</b> , 15, 154-167	3.5	5
90	Formation probability for enantiomorphous 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> , <b>2007</b> , 15, 245-252	3.5	8
89	Internal Stress Field in Ultrafine Grained Aluminium Fabricated by Accumulative Roll-Bonding. <i>Materials Science Forum</i> , <b>2006</b> , 512, 123-128	0.4	1
88	Control of the Si Vacancy Concentration and Arrangement in $\text{ReSi}_{1.75}$ by Al and P Additions. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 980, 40		1
87	Thermoelectric properties of Ba-Ge based Type-III Clathrate Compounds. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 980, 5		1
86	Defect Control and Defect Engineering of Transition-metal Silicides. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 980, 1		
85	Synthesis of Magnetic Nanoparticles by Sputtering. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 980, 45		1
84	Microstructures and Hydrogen Permeability of Nb-NiTi Eutectic Alloys Prepared by Directional Solidification. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 980, 52		
83	Evaluation of the Stability of Raft Structure in Nickel Base Superalloys Throughout their Lifetime. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 980, 8		
82	Crystal Structures and Thermoelectric Properties of $\text{Ru}_{1-x}\text{Re}_x\text{Si}_y$ Chimney-Ladder Compounds. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 980, 37		
81	The Broadening of Crystallographic Orientation Distribution in Crept Ni-base Superalloys. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 980, 28		
80	Crystal structure and thermoelectric properties of the type-I clathrate compound $\text{Ba}_8\text{Ge}_{43}$ with an ordered arrangement of Ge vacancies. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 033513	2.5	25
79	Crystal structure and thermoelectric properties of type-I clathrate compounds in the $\text{Ba}_8\text{Ga}_x\text{Ge}_{43-x}$ system. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 073504	2.5	47
78	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> , <b>2006</b> , 972, 1		

77	Crystal structure refinement of a type-I clathrate compound BaGe with an ordered arrangement of germanium vacancies. <i>Acta Materialia</i> , <b>2006</b> , 54, 173-178	8.4	26
76	High thermoelectric performance of type-III clathrate compounds of the Ba <sub>1-x</sub> Te <sub>x</sub> system. <i>Acta Materialia</i> , <b>2006</b> , 54, 2057-2062	8.4	64
75	Formation of a series of chimney-ladder compounds in the RuReSi system. <i>Acta Materialia</i> , <b>2006</b> , 54, 2857-2865	8.4	18
74	Splitting of guest atom sites and lattice thermal conductivity of type-I and type-III clathrate compounds in the Ba <sub>1-x</sub> Te <sub>x</sub> system. <i>Acta Materialia</i> , <b>2006</b> , 54, 5519-5528	8.4	21
73	Elasticity and anelasticity of metallic glass near the glass transition temperature. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2006</b> , 442, 278-282	5.3	18
72	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> , <b>2005</b> , 53, 41-52	8.4	19
71	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> , <b>2005</b> , 53, 4497-4504	8.4	17
70	Atomic migration and ordering energies in FePd: Measurement and modeling. <i>Scripta Materialia</i> , <b>2005</b> , 53, 435-440	5.6	9
69	The effect of Nb and W alloying additions to the thermal expansion anisotropy and elastic properties of Mo <sub>5</sub> Si <sub>3</sub> . <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2005</b> , 36, 533-538	2.3	10
68	Evolution of Internal Stress Field in Ni-Base Superalloy through Creep Deformation. <i>Materials Science Forum</i> , <b>2005</b> , 475-479, 619-622	0.4	11
67	Elastic and Thermal Expansion Anisotropy of Mo-Based 5-3 Silicides. <i>Materials Science Forum</i> , <b>2005</b> , 475-479, 695-698	0.4	3
66	Effect of Ga-doping on the Thermoelectric Properties of Ba-Ge Type-III Clathrate Compounds. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 886, 1		
65	Glass-liquid transition in a less-stable metallic glass. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	45
64	Splitting of Guest Atom Sites and Lattice Thermal Conductivity in Ba-Ga-Ge Clathrate Compounds. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 886, 1		
63	Effects of External Magnetic Field on FePt Films during Heat Treatment. <i>Japanese Journal of Applied Physics</i> , <b>2004</b> , 43, 273-276	1.4	8
62	Single-crystal elastic constants of disordered and ordered FePd. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 6220-6223	2.5	28
61	Identification of the chirality of intermetallic compounds by electron diffraction. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 842, 405		
60	Shape Memory Effect through L10-fcc Order-Disorder Transition. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 842, 166		0

59	Inelastic neutron scattering and migration energies in FePd. <i>Catalysis Today</i> , <b>2004</b> , 89, 313-318	5.3	3
58	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> , <b>2004</b> , 35, 2229-2238	2.3	1
57	Lattice dynamics and migration enthalpies in CoPt <sub>3</sub> and FePd. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	49
56	Study of local order in FePd by neutron diffuse scattering. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 378, 294-297	5.7	
55	Identification of Crystal Chirality by CBED. <i>Materia Japan</i> , <b>2004</b> , 43, 989-989	0.1	
54	Crystallographic Features of Rhenium Disilicide. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 793, 332		
53	Elastic constants and chemical bonding of LaNi <sub>5</sub> and LaNi <sub>5</sub> H <sub>7</sub> by first principles calculations. <i>Journal of Physics Condensed Matter</i> , <b>2003</b> , 15, 6549-6561	1.8	21
52	Chemical Diffusion in L10-Ordered FePt. <i>Materials Transactions</i> , <b>2003</b> , 44, 59-62	1.3	31
51	Re-examination of Phase Diagram of Fe-Pt System. <i>Materials Transactions</i> , <b>2003</b> , 44, 2723-2731	1.3	33
50	Elastic and anelastic behavior of Zr <sub>55</sub> Al <sub>10</sub> Ni <sub>5</sub> Cu <sub>30</sub> bulk metallic glass around the glass transition temperature under ultrasonic excitation. <i>Scripta Materialia</i> , <b>2003</b> , 49, 267-271	5.6	46
49	Rafting mechanism for Ni-base superalloy under external stress: elastic or elastic-plastic phenomena?. <i>Acta Materialia</i> , <b>2003</b> , 51, 4033-4044	8.4	72
48	Elastic anisotropy of rafted Ni-base superalloy at high temperatures. <i>Acta Materialia</i> , <b>2003</b> , 51, 4863-4869	8.4	26
47	New electron diffraction method to identify the chirality of enantiomorphic crystals. <i>Acta Crystallographica Section B: Structural Science</i> , <b>2003</b> , 59, 802-10		18
46	Defect structures in TaSi <sub>2</sub> thin films produced by co-sputtering. <i>Acta Materialia</i> , <b>2003</b> , 51, 2285-2296	8.4	17
45	Temperature dependence of thermal expansion and elastic constants of single crystals of ZrB <sub>2</sub> and the suitability of ZrB <sub>2</sub> as a substrate for GaN film. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 88-93	2.5	114
44	Reduction of the C49-C54 phase transformation temperature in co-sputtered TiSi <sub>2</sub> thin films by ternary alloying. <i>Intermetallics</i> , <b>2003</b> , 11, 417-424	3.5	5
43	Physical and mechanical properties of single crystals of the Mo <sub>5</sub> Si <sub>3</sub> C phase. <i>Intermetallics</i> , <b>2003</b> , 11, 835-840	3.4	16
42	Shape memory characteristics in the L1 <sub>0</sub> -fcc order-disorder transformation of FePd. <i>Philosophical Magazine</i> , <b>2003</b> , 83, 1797-1806	1.6	11



41	Identification of Chirality of Enantiomorphic TaSi <sub>2</sub> Crystallites by Convergent-Beam Electron Diffraction. <i>Materials Science Forum</i> , <b>2003</b> , 426-432, 1783-1788	0.4	2
40	twins in Mo-doped TiSi <sub>2</sub> thin films with the C54 structure. <i>Philosophical Magazine</i> , <b>2003</b> , 83, 1463-1478	1.6	1
39	Mechanical properties of Mo <sub>5</sub> SiB <sub>2</sub> single crystals. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2002</b> , 329-331, 222-227	5.3	87
38	Elastic constant measurement of Ni-base superalloy with the RUS and mode selective EMAR methods. <i>Ultrasonics</i> , <b>2002</b> , 40, 211-5	3.5	18
37	Physical and Mechanical Properties of Mo <sub>5</sub> X <sub>3</sub> (X=Si, B, C) Single Crystals. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 753, 1		
36	Crystal structure and thermoelectric properties of ReSi <sub>1.75</sub> silicide. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 753, 1		6
35	Mechanical and thermal properties of single crystals of ZrB <sub>2</sub> . <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 753, 1		1
34	Fe tracer diffusion in L10 ordered FePt. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 753, 1		1
33	Effects of elastic strain energies on a hydride precipitation in LaNi <sub>5</sub> -based compounds. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 753, 1		1
32	Defect and electronic structures in TiSi <sub>2</sub> thin films produced by co-sputtering Part 1: Defect analysis by transmission electron microscopy. <i>Acta Materialia</i> , <b>2001</b> , 49, 83-92	8.4	15
31	Effect of external fields on ordering of FePd. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 312, 118-127	5.3	65
30	A comparative study of elastic constants of TiNi-based alloys prior to martensitic transformation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 312, 196-206	5.3	210
29	Atomic structures and energetics of LaNi <sub>5</sub> solid solution and hydrides. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	51
28	Thermal fluctuation for the time-dependent Ginzburg-Landau simulation. <i>Physical Review E</i> , <b>2001</b> , 63, 060101	2.4	1
27	Refinement of crystallographic parameters in transition metal disilicides with the C11b, C40 and C54 structures. <i>Intermetallics</i> , <b>2001</b> , 9, 603-607	3.5	66
26	Physical and mechanical properties of single crystals of the T2 phase in the Mo <sub>5</sub> SiB system. <i>Intermetallics</i> , <b>2001</b> , 9, 591-602	3.5	127
25	Kinetics of cubic to tetragonal transformation under external field by the time-dependent Ginzburg-Landau approach. <i>Physical Review B</i> , <b>2000</b> , 62, 5435-5441	3.3	50
24	Evaluation of elastic strain energy associated with the formation of hydride precipitates in LaNi <sub>5</sub> . <i>Intermetallics</i> , <b>2000</b> , 8, 613-618	3.5	31

23	Formation of Mono-variant L10 Structure on Ordering of FePd under Magnetic Fields. <i>Materials Transactions, JIM</i> , <b>2000</b> , 41, 917-922		26
22	Elastic constants of Ti50Ni30Cu20 alloy prior to martensitic transformation. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1999</b> , 79, 31-41		41
21	Elastic Properties of High-Temperature Intermetallics. <i>High Temperature Materials and Processes</i> , <b>1999</b> , 18, 323-336	0.9	22
20	Configurational free energy in order-disorder transitions from Monte Carlo calculations for systems under external fields. <i>Physical Review B</i> , <b>1999</b> , 60, 9198-9201	3.3	7
19	Directional atomic bonds in MoSi2 and other transition-metal disilicides with the C11b, C40 and C54 structures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1999</b> , 261, 158-164	5.3	25
18	Understanding the martensitic transformations in TiNi-based alloys by elastic constants measurement. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1999</b> , 273-275, 190-194	5.3	51
17	Madelung energy of metal-metalloid compounds. <i>Computational Materials Science</i> , <b>1999</b> , 14, 62-66	3.2	1
16	Elastic Constants of Ti-48 at%Ni-2 at%Fe Single Crystal Prior to B2 $\rightarrow$ R Transformation. <i>Materials Transactions, JIM</i> , <b>1999</b> , 40, 385-388		15
15	Temperature dependence of single-crystal elastic constants of Mo(Si,Al)2. <i>Intermetallics</i> , <b>1998</b> , 6, 607-613	1.5	15
14	Effect of Applied Stress on fcc-L10 Transformation of FePd Single Crystal. <i>Materials Transactions, JIM</i> , <b>1998</b> , 39, 24-30		31
13	Self-Diffusion in L12-Type Intermetallic Compounds Ni3Ge and Ni3Ga. <i>Defect and Diffusion Forum</i> , <b>1997</b> , 143-147, 269-274	0.7	26
12	Single-crystal elastic constants of MoSi2 with the C11b structure. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1997</b> , 239-240, 188-194	5.3	24
11	Single-crystal elastic constants of intermetallic compounds. <i>Intermetallics</i> , <b>1996</b> , 4, S29-S39	3.5	115
10	Single-crystal elastic constants of gamma-TiAl. <i>Philosophical Magazine Letters</i> , <b>1996</b> , 73, 71-78	1	94
9	Elastic constants and their temperature dependence for the intermetallic compound Ti3Al. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1996</b> , 73, 1475-1488		91
8	Elastic constants of Al-based icosahedral quasicrystals. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1996</b> , 73, 1715-1723		86
7	Elastic constants of some intermetallic compounds as determined by the rectangular parallelepiped resonance method. <i>Journal of Alloys and Compounds</i> , <b>1994</b> , 211-212, 585-588	5.7	4
6	Origin of Tetragonality of BCT Martensite in Substitutional Fe-Pd-Ni Disordered Alloys. <i>Materials Transactions, JIM</i> , <b>1992</b> , 33, 215-219		9

5	Role of Annealing Twin in the Formation of Variant Structure of bct Martensite in Fe&ndash;Pd Alloy. <i>Materials Transactions, JIM</i> , <b>1991</b> , 32, 325-330		9
4	Average stress in matrix and average elastic energy of materials with misfitting inclusions. <i>Acta Metallurgica</i> , <b>1973</b> , 21, 571-574		5553
3	Experimental determination of effective atomic radii of constituent elements in CrMnFeCoNi high-entropy alloy. <i>Philosophical Magazine Letters</i> , 1-11	1	1
2	Elastic constants of Ti50Ni30Cu20 alloy prior to martensitic transformation		1
1	Microstructural Change of Monocrystalline CoAlW-based $\gamma/\delta$ Two Phase Alloys by High Temperature Creep 409-414		