# Katsushi Tanaka

List of Publications by Year
in descending order



| 169 | 11,131 | 109137 | 29081 |
|---|---|---|---|
| papers | citations | 35 h-index | 104 g-index |

| 170 | 170 | 170 | 7453 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Average stress in matrix and average elastic energy of materials with misfitting inclusions. Acta Metallurgica, 1973, 21, 571-574. | 2.1 | 6,655 |
| 2 | Size effect, critical resolved shear stress, stacking fault energy, and solid solution strengthening in the CrMnFeCoNi high-entropy alloy. Scientific Reports, 2016, 6, 35863. | 1.6 | 316 |
| 3 | A comparative study of elastic constants of Tiâ€“Ni-based alloys prior to martensitic transformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 312, 196-206. | 2.6 | 249 |
| 4 | Effects of quaternary alloying elements on the Î³â€² solvus temperature of Coâ€“Alâ€“W based alloys with fcc/L12 two-phase microstructures. Journal of Alloys and Compounds, 2010, 508, 71-78. | 2.8 | 190 |
| 5 | Atomic displacement in the CrMnFeCoNi high-entropy alloy â€“ A scaling factor to predict solid solution strengthening. AIP Advances, 2016, 6, . | 0.6 | 183 |
| 6 | Thermoelectric properties and crystallographic shear structures in titanium oxides of the MagnÃ¨li phases. Journal of Applied Physics, 2010, 108, . | 1.1 | 155 |
| 7 | Physical and mechanical properties of single crystals of the T2 phase in the Moâ€“Siâ€“B system. Intermetallics, 2001, 9, 591-602. | 1.8 | 138 |
| 8 | Anisotropic elastic constants and thermal expansivities in monocrystal CrB2, TiB2, and ZrB2. Acta Materialia, 2010, 58, 76-84. | 3.8 | 134 |
| 9 | Single-crystal elastic constants of intermetallic compounds. Intermetallics, 1996, 4, S29-S39. | 1.8 | 129 |
| 10 | Temperature dependence of thermal expansion and elastic constants of single crystals of ZrB2 and the suitability of ZrB2 as a substrate for GaN film. Journal of Applied Physics, 2003, 93, 88-93. | 1.1 | 126 |
| 11 | Elastic constants and their temperature dependence for the intermetallic compound Ti<sub>3</sub>Al. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1996, 73, 1475-1488. | 0.8 | 112 |
| 12 | Creep deformation of single crystals of new Coâ€“Alâ€“W-based alloys with fcc/L1<sub>2</sub>two-phase microstructures. Philosophical Magazine, 2012, 92, 4011-4027. | 0.7 | 108 |
| 13 | Single-crystal elastic constants of gamma-TiAl. Philosophical Magazine Letters, 1996, 73, 71-78. | 0.5 | 106 |
| 14 | Mechanical properties of Mo5SiB2 single crystals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 329-331, 222-227. | 2.6 | 98 |
| 15 | Elastic constants of Al-based icosahedral quasicrystals. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1996, 73, 1715-1723. | 0.8 | 92 |
| 16 | Rafting mechanism for Ni-base superalloy under external stress: elastic or elasticâ€“plastic phenomena?. Acta Materialia, 2003, 51, 4033-4044. | 3.8 | 89 |
| 17 | Single-crystal elastic constants of Co3(Al,W) with the L12 structure. Applied Physics Letters, 2007, 91, 181907. | 1.5 | 86 |
| 18 | Refinement of crystallographic parameters in transition metal disilicides with the C11b, C40 and C54 structures. Intermetallics, 2001, 9, 603-607. | 1.8 | 78 |

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| 19 | Effect of external fields on ordering of FePd. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 312, 118-127. | 2.6 | 68 |
| 20 | High thermoelectric performance of type-III clathrate compounds of the Baâ€“Geâ€“Ga system. Acta Materialia, 2006, 54, 2057-2062. | 3.8 | 68 |
| 21 | Plastic deformation of single crystals of Ti5Si3 with the hexagonal D88 structure. Acta Materialia, 2010, 58, 846-857. | 3.8 | 62 |
| 22 | Crystal Structure, Solubility, and Mutarotation of the Rare Monosaccharide <scp>d</scp>-Psicose. Bulletin of the Chemical Society of Japan, 2010, 83, 1193-1197. | 2.0 | 60 |
| 23 | Understanding the martensitic transformations in TiNi-based alloys by elastic constants measurement. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 273-275, 190-194. | 2.6 | 56 |
| 24 | Microstructures and hydrogen permeability of directionally solidified Nbâ€“Niâ€“Ti alloys with the Nbâ€“NiTi eutectic microstructure. Intermetallics, 2008, 16, 88-95. | 1.8 | 55 |
| 25 | Atomic structures and energetics ofLaNi5â^'Hsolid solution and hydrides. Physical Review B, 2001, 64, . | 1.1 | 54 |
| 26 | Crystal structure and thermoelectric properties of chimneyâ€“ladder compounds in the Ru2Si3â€“Mn4Si7 pseudobinary system. Acta Materialia, 2009, 57, 5036-5045. | 3.8 | 54 |
| 27 | Kinetics of cubic to tetragonal transformation under external field by the time-dependent Ginzburg-Landau approach. Physical Review B, 2000, 62, 5435-5441. | 1.1 | 53 |
| 28 | Lattice dynamics and migration enthalpies inCoPt3and FePd. Physical Review B, 2004, 69, . | 1.1 | 53 |
| 29 | Glass-liquid transition in a less-stable metallic glass. Physical Review B, 2005, 72, . | 1.1 | 53 |
| 30 | Crystal structure and thermoelectric properties of type-I clathrate compounds in the Baâ€“Gaâ€“Ge system. Journal of Applied Physics, 2006, 100, 073504. | 1.1 | 51 |
| 31 | Effect of In additions on the thermoelectric properties of the type-I clathrate compound Ba8Ga16Ge30. Journal of Applied Physics, 2007, 101, 113525. | 1.1 | 48 |
| 32 | Elastic constants of Ti<sub>50</sub>Ni<sub>30</sub>Cu<sub>20</sub>alloy prior to martensitic transformation. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1999, 79, 31-41. | 0.8 | 47 |
| 33 | Elastic and anelastic behavior of Zr55Al10Ni5Cu30 bulk metallic glass around the glass transition temperature under ultrasonic excitation. Scripta Materialia, 2003, 49, 267-271. | 2.6 | 46 |
| 34 | Re-examination of Phase Diagram of Fe-Pt System. Materials Transactions, 2003, 44, 2723-2731. | 0.4 | 41 |
| 35 | Chemical Diffusion in L1<SUB>0</SUB>-Ordered FePt. Materials Transactions, 2003, 44, 59-62. | 0.4 | 35 |
| 36 | Effects of lattice misfit on plastic deformation behavior of single-crystalline micropillars of Ni-based superalloys. Acta Materialia, 2017, 138, 119-130. | 3.8 | 35 |

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| 37 | Evaluation of elastic strain energy associated with the formation of hydride precipitates in LaNi5. Intermetallics, 2000, 8, 613-618. | 1.8 | 33 |
| 38 | Effect of Applied Stress on fcc-L1<SUB>0</SUB> Transformation of FePd Single Crystal. Materials Transactions, JIM, 1998, 39, 24-30. | 0.9 | 32 |
| 39 | Single-crystal elastic constants of disordered and ordered FePd. Journal of Applied Physics, 2004, 96, 6220-6223. | 1.1 | 31 |
| 40 | Directional atomic bonds in MoSi2 and other transition-metal disilicides with the C11b, C40 and C54 structures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 261, 158-164. | 2.6 | 30 |
| 41 | Elastic anisotropy of rafted Ni-base superalloy at high temperatures. Acta Materialia, 2003, 51, 4863-4869. | 3.8 | 30 |
| 42 | Effects of annealing on hardness, yield strength and dislocation structure in single crystals of the equiatomic Cr-Mn-Fe-Co-Ni high entropy alloy. Scripta Materialia, 2021, 191, 173-178. | 2.6 | 29 |
| 43 | Single-crystal elastic constants of MoSi2 with the C11b structure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 239-240, 188-194. | 2.6 | 28 |
| 44 | Structure refinement of the Î´<sub>1<i>p</i></sub>phase in the Feâ€“Zn system by single-crystal X-ray diffraction combined with scanning transmission electron microscopy. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 275-282. | 0.5 | 28 |
| 45 | Formation of Mono-variant L1<SUB>0</SUB> Structure on Ordering of FePd under Magnetic Fields. Materials Transactions, JIM, 2000, 41, 917-922. | 0.9 | 27 |
| 46 | Mechanical and thermal properties of single crystals of the type-I clathrate compounds Ba8Ga16Ge30 and Sr8Ga16Ge30. Journal of Applied Physics, 2008, 104, . | 1.1 | 27 |
| 47 | Self-Diffusion in L1<sub>2</sub>-Type Intermetallic Compounds Ni<sub>3</sub>Ge and Ni<sub>3</sub>Ga. Defect and Diffusion Forum, 1997, 143-147, 269-274. | 0.4 | 26 |
| 48 | Crystal structure refinement of a type-I clathrate compound BaGe with an ordered arrangement of germanium vacancies. Acta Materialia, 2006, 54, 173-178. | 3.8 | 26 |
| 49 | Crystal structure and thermoelectric properties of the type-I clathrate compound Ba8Ge43 with an ordered arrangement of Ge vacancies. Journal of Applied Physics, 2006, 99, 033513. | 1.1 | 26 |
| 50 | Monocrystalline elastic constants and their temperature dependences for equi-atomic Cr-Mn-Fe-Co-Ni high-entropy alloy with the face-centered cubic structure. Journal of Alloys and Compounds, 2019, 777, 1313-1318. | 2.8 | 25 |
| 51 | Elastic Properties of High-Temperature Intermetallics. High Temperature Materials and Processes, 1999, 18, 323-336. | 0.6 | 24 |
| 52 | Atomic migration and ordering energies in FePd: Measurement and modeling. Scripta Materialia, 2005, 53, 435-440. | 2.6 | 24 |
| 53 | Splitting of guest atom sites and lattice thermal conductivity of type-I and type-III clathrate compounds in the Baâ€“Gaâ€“Ge system. Acta Materialia, 2006, 54, 5519-5528. | 3.8 | 24 |
| 54 | Elastic constants and chemical bonding of LaNi5and LaNi5H7by first principles calculations. Journal of Physics Condensed Matter, 2003, 15, 6549-6561. | 0.7 | 23 |

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| 55 | Enantiomorph identification of transition-metal disilicides with the C40 structure (the space group) Tj ETQq1 1 0.784314 rgBT /Overlock 41-52. | 3.8 | 23 |
| 56 | Microstructure of the LiCoO2 (cathode)/La2/3â^'xLi3xTiO3 (electrolyte) interface and its influences on the electrochemical properties. Acta Materialia, 2007, 55, 4713-4722. | 3.8 | 23 |
| 57 | Thermoelectric properties of ternary and Al-containing quaternary Ru1â^'xRexSiy chimneyâ€"ladder compounds. Acta Materialia, 2009, 57, 2010-2019. | 3.8 | 23 |
| 58 | Elastic constant measurement of Ni-base superalloy with the RUS and mode selective EMAR methods. Ultrasonics, 2002, 40, 211-215. | 2.1 | 21 |
| 59 | New electron diffraction method to identify the chirality of enantiomorphic crystals. Acta Crystallographica Section B: Structural Science, 2003, 59, 802-810. | 1.8 | 21 |
| 60 | Formation of a series of chimneyâ€"ladder compounds in the Ruâ€"Reâ€"Si system. Acta Materialia, 2006, 54, 2857-2865. | 3.8 | 21 |
| 61 | Defect structures in TaSi2 thin films produced by co-sputtering. Acta Materialia, 2003, 51, 2285-2296. | 3.8 | 20 |
| 62 | Physical and mechanical properties of single crystals of the Mo5Si3C phase. Intermetallics, 2003, 11, 835-840. | 1.8 | 20 |
| 63 | Elasticity and anelasticity of metallic glass near the glass transition temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 442, 278-282. | 2.6 | 18 |
| 64 | Temperature dependence of single-crystal elastic constants of Mo(Si,Al)2. Intermetallics, 1998, 6, 607-611. | 1.8 | 17 |
| 65 | Elastic Constants of Ti-48 at%Ni-2 at%Fe Single Crystal Prior to B2→R Transformation. Materials Transactions, JIM, 1999, 40, 385-388. | 0.9 | 17 |
| 66 | Interpretation in elastic regime for rafting of Ni-base superalloy based on the external-stress-free dimensional change due to internal-stress equilibration. Acta Materialia, 2005, 53, 4497-4504. | 3.8 | 17 |
| 67 | Crystal structure and thermoelectric properties of type-III clathrate compounds in the Baâ€"Inâ€"Ge system. Journal of Applied Physics, 2007, 102, . | 1.1 | 17 |
| 68 | Defect and electronic structures in TiSi2 thin films produced by co-sputtering Part 1: Defect analysis by transmission electron microscopy. Acta Materialia, 2001, 49, 83-92. | 3.8 | 15 |
| 69 | Crystal and Defect Structures of La2/3 xLi3xTiO3 (x Â 0.1) Produced by a Melt Process. Journal of Electron Microscopy, 2007, 56, 225-234. | 0.9 | 14 |
| 70 | Compression of Micropillars of TiAl Coexisting with Ti3Al. Materials Research Society Symposia Proceedings, 2011, 1295, 201. | 0.1 | 14 |
| 71 | Diffusion of Al and Al-Substituting Elements in Ni<sub>3</sub>Al at Elevated Temperatures. Materials Transactions, 2012, 53, 2111-2118. | 0.4 | 14 |
| 72 | Monocrystalline elastic constants of fcc-CrMnFeCoNi high entropy alloy. MRS Advances, 2017, 2, 1429-1434. | 0.5 | 14 |

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| 73 | Thermoelectric properties and crystal structure of type-III clathrate compounds in the Baâ€“Alâ€“Ge system. Journal of Applied Physics, 2007, 102, . | 1.1 | 13 |
| 74 | The effect of Nb and W alloying additions to the thermal expansion anisotropy and elastic properties of Mo5Si3. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2005, 36, 533-538. | 1.1 | 12 |
| 75 | Elastic instability condition of the raft structure during creep deformation in nickel-base superalloys. Acta Materialia, 2008, 56, 3786-3790. | 3.8 | 12 |
| 76 | Low-temperature elastic moduli of a Pd-based metallic glass showing positive phonon dispersion. Physical Review B, 2008, 78, . | 1.1 | 12 |
| 77 | Pressure induced phase transformation of Ba8Ga16Ge30 clathrate studied by x-ray diffraction and Raman spectroscopy. Journal of Applied Physics, 2010, 107, 013517. | 1.1 | 12 |
| 78 | Role of Annealing Twin in the Formation of Variant Structure of bct Martensite in Fe–Pd Alloy. Materials Transactions, JIM, 1991, 32, 325-330. | 0.9 | 11 |
| 79 | Shape memory characteristics in the L1 0 -fcc order-disorder transformation of FePd. Philosophical Magazine, 2003, 83, 1797-1806. | 0.7 | 11 |
| 80 | Evolution of Internal Stress Field in Ni-Base Superalloy through Creep Deformation. Materials Science Forum, 2005, 475-479, 619-622. | 0.3 | 11 |
| 81 | 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. Intermetallics, 2007, 15, 245-252. | 1.8 | 10 |
| 82 | Crystal structure refinement of ReSi<sub>1.75</sub>with an ordered arrangement of silicon vacancies. Philosophical Magazine, 2011, 91, 3108-3127. | 0.7 | 10 |
| 83 | Geometry and energy barrier of martensite in the initial stage martensitic transformation in B19â€™ TiNi shape memory alloy. Acta Materialia, 2020, 201, 94-101. | 3.8 | 10 |
| 84 | Origin of Tetragonality of BCT Martensite in Substitutional Fe–Pd(–Ni) Disordered Alloys. Materials Transactions, JIM, 1992, 33, 215-219. | 0.9 | 9 |
| 85 | Evolution of orientation distributions of Î³ and Î³â€² phases during creep deformation of Ni-base single crystal superalloys. Acta Materialia, 2009, 57, 1078-1085. | 3.8 | 9 |
| 86 | Configurational free energy in order-disorder transitions from Monte Carlo calculations for systems under external fields. Physical Review B, 1999, 60, 9198-9201. | 1.1 | 8 |
| 87 | Effects of External Magnetic Field on FePt Films during Heat Treatment. Japanese Journal of Applied Physics, 2004, 43, 273-276. | 0.8 | 8 |
| 88 | Thermal fluctuation for the time-dependent Ginzburg-Landau simulation. Physical Review E, 2001, 63, 060101. | 0.8 | 7 |
| 89 | Crystal structure and thermoelectric properties of ReSi<sub>1.75</sub> silicide. Materials Research Society Symposia Proceedings, 2002, 753, 1. | 0.1 | 7 |
| 90 | Structural and Thermoelectric Properties of Chimneyâ€“Ladder Compounds in the Ru-Mn-Si System. Journal of Electronic Materials, 2010, 39, 1640-1644. | 1.0 | 7 |

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| 91 | Mechanical Properties of the Ternary L1<sub>2</sub> Compound Co<sub>3</sub>(Al,W) in Single and Polycrystalline Forms. Advanced Materials Research, 0, 278, 1-6. | 0.3 | 7 |
| 92 | Reduction of the C49â†'C54 phase transformation temperature in co-sputtered TiSi2 thin films by ternary alloying. Intermetallics, 2003, 11, 417-424. | 1.8 | 6 |
| 93 | Crystal Structure and Thermoelectric Properties of ReSi<sub>1.75</sub> Based Alloys. Advanced Materials Research, 2007, 26-28, 197-200. | 0.3 | 6 |
| 94 | Enantiomorph identification of crystals belonging to the point groups of 622 and 6 by convergent-beam electron diffraction method. Intermetallics, 2007, 15, 154-167. | 1.8 | 6 |
| 95 | Physical and Mechanical Properties of Single Crystals of Co-Al-W Based Alloys with L1<sub>2</sub> Single-Phase and L1<sub>2</sub>/fcc Two-Phase Microstructures. Materials Science Forum, 2010, 638-642, 1342-1347. | 0.3 | 6 |
| 96 | Physical and Mechanical Properties of Co<sub>3</sub>(Al,W) with the L1<sub>2</sub> Structure in Single and Polycrystalline Forms. Key Engineering Materials, 0, 465, 9-14. | 0.4 | 6 |
| 97 | Elastic and Thermal Expansion Anisotropy of Mo-Based 5-3 Silicides. Materials Science Forum, 2005, 475-479, 695-698. | 0.3 | 5 |
| 98 | Morphology change of Î³â€² precipitates in Î³/Î³â€² two-phase microstructure in Co-based superalloys by higher-order alloying. Materials Research Society Symposia Proceedings, 2011, 1295, 423. | 0.1 | 5 |
| 99 | Direct Observation of Vacancies and Local Thermal Vibration in Thermoelectric Rhenium Silicide. Applied Physics Express, 2012, 5, 035203. | 1.1 | 5 |
| 100 | Appropriate zone-axis orientations for the determination of crystal polarity by convergent-beam electron diffraction. Journal of Applied Crystallography, 2015, 48, 736-746. | 1.9 | 5 |
| 101 | Distribution of Alloying Quadrivalent Zirconium in TiO<sub>2â^'</sub><i><sub>x</sub></i> MagnÃ¨li Phase. Materials Transactions, 2019, 60, 2199-2203. | 0.4 | 5 |
| 102 | Elastic constants of some intermetallic compounds as determined by the rectangular parallelepiped resonance method. Journal of Alloys and Compounds, 1994, 211-212, 585-588. | 2.8 | 4 |
| 103 | Thermoelectric Properties of Ru<sub>2</sub>Si<sub>3</sub>-Based Chimney-Ladder Phases. Materials Science Forum, 2007, 561-565, 463-466. | 0.3 | 4 |
| 104 | Atomic Migration in Bulk and Thin Film L1<sub>0</sub> Alloys: Experiments and Molecular Dynamics Simulations. Defect and Diffusion Forum, 2007, 263, 41-50. | 0.4 | 4 |
| 105 | Mechanical Properties of Cr5Si3 with the D8m Structure. Materials Research Society Symposia Proceedings, 2011, 1295, 213. | 0.1 | 4 |
| 106 | Arrangements of Fe-Centered Zn12 Icosahedra in Fe-Zn Intermetallic Compounds Determined by Ultra-High Resolution Scanning Transmission Electron Microscopy. Materials Research Society Symposia Proceedings, 2015, 1760, 13. | 0.1 | 4 |
| 107 | Inelastic neutron scattering and migration energies in FePd. Catalysis Today, 2004, 89, 313-318. | 2.2 | 3 |
| 108 | Enantiomorph identification of crystals belonging to the point groups 321 and 312 by convergent-beam electron diffraction. Journal of Applied Crystallography, 2007, 40, 241-249. | 1.9 | 3 |

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| 109 | Diffusion of Ti, V and Nb in Ni<sub>3</sub>Al at Elevated Temperatures. Defect and Diffusion Forum, 2010, 297-301, 384-389. | 0.4 | 3 |
| 110 | Evolution of Raft Structure during Creep Deformation of the Ni-Based Single-Crystal Superalloy TMS-138. Advanced Materials Research, 0, 278, 19-24. | 0.3 | 3 |
| 111 | Crystal Structure, Solubility, and Mutarotation of the Rare Monosaccharide <scp>d</scp>-Psicose. Bulletin of the Chemical Society of Japan, 2011, 84, 678-678. | 2.0 | 3 |
| 112 | Effects of Alloying Elements on Physical and Mechanical Properties of Co-Al-W-Based L1<sub>2</sub>/fcc Two-Phase Alloys. Materials Science Forum, 0, 783-786, 1195-1200. | 0.3 | 3 |
| 113 | Improvement in High Temperature Oxidation Resistance of Co-Al-W Based Superalloys. Materials Research Society Symposia Proceedings, 2015, 1760, 222. | 0.1 | 3 |
| 114 | Experimental determination of effective atomic radii of constituent elements in CrMnFeCoNi high-entropy alloy. Philosophical Magazine Letters, 2022, 102, 100-110. | 0.5 | 3 |
| 115 | Madelung energy of metalâ€“metalloid compounds. Computational Materials Science, 1999, 14, 62-66. | 1.4 | 2 |
| 116 | Identification of Chirality of Enantiomorphic TaSi<sub>2</sub> Crystallites by Convergent-Beam Electron Diffraction. Materials Science Forum, 2003, 426-432, 1783-1788. | 0.3 | 2 |
| 117 | Thermoelectric properties of Ba-Ge based Type-III Clathrate Compounds. Materials Research Society Symposia Proceedings, 2006, 980, 5. | 0.1 | 2 |
| 118 | Microstructure Evolution during Lithiation and Delithiation of Ni<sub>3</sub>Sn<sub>2</sub> Anode for Lithium Secondary Batteries. Advanced Materials Research, 2007, 26-28, 225-228. | 0.3 | 2 |
| 119 | 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 |
| 120 | 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 |
| 121 | Enantiomorph identification and stacking faults in Î²-(BEDT-TTF)2Cu(NCS)2by convergent-beam electron diffraction. Journal of Applied Crystallography, 2009, 42, 433-441. | 1.9 | 2 |
| 122 | Investigations of the Co-Pt alloy phase diagram with neutron diffuse scattering, inverse cluster variation method, and Monte Carlo simulations. Physical Review B, 2020, 102, . | 1.1 | 2 |
| 123 | Elastic interaction energy analysis during twin plane formation in the martensitic transformation process of Î±"-martensite in Ti-Nb-Al. Materialia, 2022, 22, 101420. | 1.3 | 2 |
| 124 | Mechanical and thermal properties of single crystals of ZrB2. Materials Research Society Symposia Proceedings, 2002, 753, 1. | 0.1 | 1 |
| 125 | Fe tracer diffusion in L10 ordered FePt. Materials Research Society Symposia Proceedings, 2002, 753, 1. | 0.1 | 1 |
| 126 | Effects of elastic strain energies on a hydride precipitation in LaNi5-based compounds. Materials Research Society Symposia Proceedings, 2002, 753, 1. | 0.1 | 1 |

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| 127 | twins in Mo-doped TiSi 2 thin films with the C54 structure. Philosophical Magazine, 2003, 83, 1463-1478. | 0.7 | 1 |
| 128 | Shape Memory Effect through L10-fcc Order-Disorder Transition. Materials Research Society Symposia Proceedings, 2004, 842, 166. | 0.1 | 1 |
| 129 | Defect structures in cosputtered thin films of transition-metal disilicides with C11 b , C40 and C54 structures. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 2229-2238. | 1.1 | 1 |
| 130 | Internal Stress Field in Ultrafine Grained Aluminium Fabricated by Accumulative Roll-Bonding. Materials Science Forum, 2006, 512, 123-128. | 0.3 | 1 |
| 131 | Control of the Si Vacancy Concentration and Arrangement in ReSi1.75 by Al and P Additions. Materials Research Society Symposia Proceedings, 2006, 980, 40. | 0.1 | 1 |
| 132 | Synthesis of Magnetic Nanoparticles by Sputtering. Materials Research Society Symposia Proceedings, 2006, 980, 45. | 0.1 | 1 |
| 133 | Microstructures and Hydrogen Permeability of Nb-NiTi Eutectic Alloys Prepared by Directional Solidification. Materials Research Society Symposia Proceedings, 2006, 980, 52. | 0.1 | 1 |
| 134 | Elastic Properties of L1<sub>0</sub>-Ordered Single Crystals. Advanced Materials Research, 2007, 26-28, 221-224. | 0.3 | 1 |
| 135 | Effect of Creep Deformation on the Crystallographic Orientation Distribution in Ni Base Superalloy. Advanced Materials Research, 2007, 26-28, 213-216. | 0.3 | 1 |
| 136 | Crystal Structure Variation of Ru<sub>2</sub>Si<sub>3</sub> Upon Alloying with Mn. Advanced Materials Research, 2007, 26-28, 229-232. | 0.3 | 1 |
| 137 | Plastic Deformations in L1<sub>0</sub>-Ordered Single Crystals with their c/a Ratios Less than Unity. Materials Science Forum, 2007, 561-565, 459-462. | 0.3 | 1 |
| 138 | Mechanical and Thermal Properties of Single Crystals of Some Thermoelectric Clathrate Compounds. Materials Research Society Symposia Proceedings, 2008, 1128, 11101. | 0.1 | 1 |
| 139 | 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 |
| 140 | Plastic Deformations in Single Crystals of FePd with the L10 Structure. Materials Research Society Symposia Proceedings, 2008, 1128, 90701. | 0.1 | 1 |
| 141 | Improvement of the Thermoelectric Properties of the Chimneyâ€“Ladder Compounds in the Ru-Mn-Si System. Materials Research Society Symposia Proceedings, 2009, 1218, 1. | 0.1 | 1 |
| 142 | Effect of Elastic Driving Force on the Evolution of Microstructures in the Secondary Creep Stage. Advanced Materials Research, 0, 278, 126-131. | 0.3 | 1 |
| 143 | Improvement of Thermoelectric Properties of Chimney-ladder Compounds through the Introduction of PBET Interfaces. Materia Japan, 2011, 50, 149-151. | 0.1 | 1 |
| 144 | Composition dependence of positive temperature dependence of yield stress for Co3(Al, W)â€“Co3Ti pseudo-binary alloy with the L12 structure. Intermetallics, 2021, 136, 107250. | 1.8 | 1 |

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| 145 | Elastic constants of Ti50Ni30Cu20 alloy prior to martensitic transformation. , 0, . | | 1 |
| 146 | Microstructural change of monocrystalline Co-Al-W-based Î³/Î³â€² two phase alloys by high temperature creep. , 2013, , 409-414. | | 1 |
| 147 | Physical and Mechanical Properties of Mo5X3+Î± (X=Si, B, C) Single Crystals. Materials Research Society Symposia Proceedings, 2002, 753, 1. | 0.1 | 0 |
| 148 | Crystallographic Features of Rhenium Disilicide. Materials Research Society Symposia Proceedings, 2003, 793, 332. | 0.1 | 0 |
| 149 | Identification of the chirality of intermetallic compounds by electron diffraction. Materials Research Society Symposia Proceedings, 2004, 842, 405. | 0.1 | 0 |
| 150 | Study of local order in FePd by neutron diffuse scattering. Journal of Alloys and Compounds, 2004, 378, 294-297. | 2.8 | 0 |
| 151 | Effect of Ga-doping on the Thermoelectric Properties of Ba-Ge Type-III Clathrate Compounds. Materials Research Society Symposia Proceedings, 2005, 886, 1. | 0.1 | 0 |
| 152 | Splitting of Guest Atom Sites and Lattice Thermal Conductivity in Ba-Ga-Ge Clathrate Compounds. Materials Research Society Symposia Proceedings, 2005, 886, 1. | 0.1 | 0 |
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