

Matthew J Kramer

List of Publications by Year in descending order

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papers

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39113

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442
all docs

442
docs citations

442
times ranked

10490
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of tensile loading during annealing of alnico melt spun ribbons. AIP Advances, 2022, 12, 035338.	0.6	1
2	Microstructural evolutions, phase transformations and hard magnetic properties in polycrystalline Ce-Co-Fe-Cu alloys. Materials Chemistry and Physics, 2022, 286, 126179.	2.0	0
3	Additively Manufactured High-Performance Elastocaloric Materials with Long Fatigue Life. , 2022, , .		0
4	Distilling physical origins of hardness in multi-principal element alloys directly from ensemble neural network models. Npj Computational Materials, 2022, 8, .	3.5	14
5	Uniaxial compression of [001]-oriented CaFe ₂ As ₂ single crystals: the effects of microstructure and temperature on superelasticity Part I: Experimental observations. Acta Materialia, 2021, 203, 116464.	3.8	4
6	Magnetic and mechanical properties of grain-refined Dy-free Nd-Fe-B sintered magnets. Journal of Magnetism and Magnetic Materials, 2021, 521, 167533.	1.0	8
7	Effect of Processing Hydrogen Pressure on Magnetic Properties of HDDR Nd-Fe-B Magnet. IEEE Transactions on Magnetics, 2021, 57, 1-4.	1.2	4
8	Effects of Solidification Cooling Rates on Microstructures and Physical Properties of Fe-6.5%Si Alloys. Acta Materialia, 2021, 205, 116575.	3.8	30
9	Unveiling the mechanism of phase and morphology selections during the devitrification of Al-Sm amorphous ribbon. Physical Review Materials, 2021, 5, .	0.9	3
10	Structural and magnetic properties of hard magnetic system Ce(Co _{1-x} Fe _x) _{4.4} Cu _{0.6} (0 ≤ x ≤ 0.19). Journal of Alloys and Compounds, 2021, 883, 160866.	2.8	3
11	Near net shape fabrication of anisotropic Fe-6.5%Si soft magnetic materials. Acta Materialia, 2020, 201, 209-216.	3.8	25
12	Changes in short- and medium-range order in metallic liquids during undercooling. MRS Bulletin, 2020, 45, 943-950.	1.7	14
13	Development of interatomic potential for Al-Tb alloys using a deep neural network learning method. Physical Chemistry Chemical Physics, 2020, 22, 18467-18479.	1.3	28
14	Reinvestigation of the intrinsic magnetic properties of $\text{Fe}_{1-x}\text{Co}_x$ alloys. Journal of Magnetism and Magnetic Materials, 2020, 513, 167214.	1.0	5
15	Monitoring eutectoid decomposition process of metastable phases in Al-Sm alloy via in-situ X-ray scattering and ex-situ transmission electron microscopy. Materials Characterization, 2020, 170, 110665.	1.9	1
16	Dynamic Observation of Dendritic Quasicrystal Growth upon Laser-Induced Solid-State Transformation. Physical Review Letters, 2020, 125, 195503.	2.9	7
17	Vacancy-mediated complex phase selection in high entropy alloys. Acta Materialia, 2020, 194, 540-546.	3.8	31
18	Functionalizing magnet additive manufacturing with in-situ magnetic field source. Additive Manufacturing, 2020, 34, 101289.	1.7	8

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19	Mechanisms of Skyrmion and Skyrmion Crystal Formation from the Conical Phase. Nano Letters, 2020, 20, 4731-4738.	4.5	14
20	Subsurface Cooling Rates and Microstructural Response during Laser Based Metal Additive Manufacturing. Scientific Reports, 2020, 10, 1981.	1.6	64
21	Development of Mischmetal-Fe-Co-B Permanent Magnet Alloys via High-Throughput Methods. ACS Combinatorial Science, 2020, 22, 248-254.	3.8	7
22	In-situ Observation of Magnetic Skyrmion Crystal Growth from the Conical Phase. Microscopy and Microanalysis, 2020, 26, 1764-1765.	0.2	0
23	In-situ TEM analysis of the phase transformation mechanism of a Cu-Al-Ni shape memory alloy. Journal of Alloys and Compounds, 2019, 808, 151743.	2.8	9
24	Microstructure and Magnetic Properties of Grain Refined Pr ₂ Co ₁₄ B Melt-Spun Ribbons. Magnetochemistry, 2019, 5, 6.	1.0	2
25	Atomically Intimate Contact between Solid Electrolytes and Electrodes for Li Batteries. Matter, 2019, 1, 1001-1016.	5.0	52
26	Laser-Induced Keyhole Defect Dynamics during Metal Additive Manufacturing. Advanced Engineering Materials, 2019, 21, 1900455.	1.6	45
27	Development of a deep machine learning interatomic potential for metalloid-containing Pd-Si compounds. Physical Review B, 2019, 100, .	1.1	39
28	Tracking Metastable Phase Selection during Devitrification in a Metallic Glass. Microscopy and Microanalysis, 2019, 25, 1874-1875.	0.2	0
29	Formation and Relaxation Dynamics of Magnetic Skyrmion. Microscopy and Microanalysis, 2019, 25, 36-37.	0.2	2
30	Single-Crystal Permanent Magnets: Extraordinary Magnetic Behavior in the Ta-, Cu-, and Fe-Substituted CeCo ₅ Systems. Physical Review Applied, 2019, 11, .	1.5	15
31	Observation of $\hat{\Gamma}$ -Al ₄₁ Sm ₅ reveals motif-aware structural evolution in Al-Sm alloys. Scientific Reports, 2019, 9, 6692.	1.6	4
32	Designing oxidation resistant ultra-high temperature ceramics through the development of an adherent native thermal barrier. Journal of Alloys and Compounds, 2019, 790, 1119-1126.	2.8	10
33	Lattice-driven magnetic transitions in Al(Fe,T) ₂ X ₂ compounds. Journal of Magnetism and Magnetic Materials, 2019, 481, 262-267.	1.0	8
34	Effects of High Magnetic Fields on Phase Transformations in Amorphous Nd ₂ Fe ₁₄ B. Magnetochemistry, 2019, 5, 16.	1.0	6
35	Toward Phase and Catalysis Control: Tracking the Formation of Intermetallic Nanoparticles at Atomic Scale. Chem, 2019, 5, 1235-1247.	5.8	45
36	Fatigue-resistant high-performance elastocaloric materials made by additive manufacturing. Science, 2019, 366, 1116-1121.	6.0	229

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37	Uncompensated Polarization in Incommensurate Modulations of Perovskite Antiferroelectrics. <i>Physical Review Letters</i> , 2019, 123, 217602.	2.9	50
38	Thermodynamic and kinetic analysis of the melt spinning process of Fe-6.5 wt.% Si alloy. <i>Journal of Alloys and Compounds</i> , 2019, 771, 643-648.	2.8	33
39	Oxidation resistance of a Mo-W-Si-B alloy at 1000–1300°C: The effect of a multicomponent Mo-Si-B coating. <i>Applied Surface Science</i> , 2019, 470, 289-295.	3.1	24
40	An abnormal meta-stable nanoscale eutectic reaction revealed by in-situ observations. <i>Acta Materialia</i> , 2019, 164, 697-703.	3.8	7
41	Low-Field Alignment of Anisotropic Bonded Magnets for Additive Manufacturing of Permanent Magnet Motors. <i>Jom</i> , 2019, 71, 626-632.	0.9	12
42	Enhanced room-temperature magnetocaloric effect and tunable magnetic response in Ga- and Ge-substituted AlFe ₂ B ₂ . <i>Journal of Alloys and Compounds</i> , 2019, 777, 1030-1038.	2.8	36
43	Microstructure and coercivity in alnico 9. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 471, 142-147.	1.0	10
44	Effects of Al and Fe solubility on the magnetofunctional properties of AlFe ₂ B ₂ . <i>Physical Review Materials</i> , 2019, 3, .	0.9	7
45	Anisotropic magnetocaloric response in AlFe ₂ B ₂ . <i>Journal of Alloys and Compounds</i> , 2018, 745, 505-512.	2.8	49
46	Rapid Assessment of the Ce-Co-Fe-Cu System for Permanent Magnetic Applications. <i>Jom</i> , 2018, 70, 872-878.	0.9	13
47	Texture development and coercivity enhancement in cast alnico 9 magnets. <i>AIP Advances</i> , 2018, 8, 056215.	0.6	2
48	From Quasicrystals to Crystals with Interpenetrating Icosahedra in Ca–Au–Al: In Situ Variable-Temperature Transformation. <i>Journal of the American Chemical Society</i> , 2018, 140, 1337-1347.	6.6	5
49	Novel mechanisms for solid-state processing and grain growth with microstructure alignment in alnico-8 based permanent magnets. <i>AIP Advances</i> , 2018, 8, .	0.6	6
50	Local structure orders and glass forming ability of Ni-Nb liquids. <i>Intermetallics</i> , 2018, 98, 131-138.	1.8	7
51	An instrument for in situ time-resolved X-ray imaging and diffraction of laser powder bed fusion additive manufacturing processes. <i>Review of Scientific Instruments</i> , 2018, 89, 055101.	0.6	123
52	On spinodal decomposition in alnico - A transmission electron microscopy and atom probe tomography study. <i>Acta Materialia</i> , 2018, 153, 15-22.	3.8	24
53	Investigation of partitionless growth of μ -Al ₆₀ Sm ₁₁ phase in Al-10 at% Sm liquid. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2018, 26, 015006.	0.8	7
54	Microstructural Development in Melt-spun Nd ₂ Fe ₁₄ B Under High Magnetic Field Annealing. <i>Microscopy and Microanalysis</i> , 2018, 24, 958-959.	0.2	1

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55	Relaxation Dynamics of Zero-Field Skyrmions over a Wide Temperature Range. Nano Letters, 2018, 18, 7777-7783.	4.5	22
56	A first-principles based description of the Hf-Ni system supported by high-temperature synchrotron experiments. Thermochemica Acta, 2018, 668, 142-151.	1.2	9
57	Current progress and future challenges in rare-earth-free permanent magnets. Acta Materialia, 2018, 158, 118-137.	3.8	351
58	Spatially-correlated site occupancy in the nonstoichiometric meta-stable μ_0 -Al ₆₀ Sm ₁₁ phase during devitrification of Al-10.2at.% Sm glasses. Acta Materialia, 2018, 156, 97-103.	3.8	5
59	Magnetic field control of microstructural development in melt-spun μ_0 -Al ₆₀ Sm ₁₁ phase during devitrification of Al-10.2at.% Sm glasses. Journal of Magnetism and Magnetic Materials, 2017, 430, 85-89.	0.9	24
60	Magnetic properties of single crystalline itinerant ferromagnet μ_0 -Al ₆₀ Fe ₂ B ₂ . Physical Review Materials, 2018, 2, .	0.9	30
61	Magnetic field control of microstructural development in melt-spun μ_0 -Al ₆₀ Fe ₂ B ₂ . Journal of Magnetism and Magnetic Materials, 2017, 430, 85-89.		
62	Development of controlled solid-state alignment for alnico permanent magnets in near-final shape. AIP Advances, 2017, 7, .	0.6	6
63	Microstructural and magnetic property evolution with different heat-treatment conditions in an alnico alloy. Acta Materialia, 2017, 133, 73-80.	3.8	51
64	Pressureless Sintering of Mo-Si-B Alloys with Fe Additive. Journal of Materials Engineering and Performance, 2017, 26, 2417-2422.	1.2	6
65	Combinatorial study of Fe-Co-V hard magnetic thin films. Science and Technology of Advanced Materials, 2017, 18, 231-238.	2.8	22
66	Oxidation mechanism of W substituted Mo-Si-B alloys. Intermetallics, 2017, 87, 38-44.	1.8	38
67	Role of polyhedral order in glass to crystal transition dynamics in Zr ₆₀ Cu ₁₀ Al ₁₅ Ni ₁₅ glass forming alloy. Journal of Non-Crystalline Solids, 2017, 471, 256-263.	1.5	2
68	Cooperative and noncooperative magnetization reversal in alnicos. AIP Advances, 2017, 7, 056222.	0.6	2
69	Electronic structure and magnetic properties in μ_0 -Al ₆₀ Fe ₂ B ₂ (μ_0 -Al ₆₀ Fe ₂ B ₂) Tj ETQq1 1 0.7843144rgBT/Over		
70	Si-centered capped trigonal prism ordering in liquid Pd ₈₂ Si ₁₈ alloy study by first-principles calculations. RSC Advances, 2017, 7, 18093-18098.	1.7	9
71	Generation of high-density biskyrmions by electric current. Npj Quantum Materials, 2017, 2, .	1.8	30
72	Cluster-Expansion Model for Complex Quinary Alloys: Application to Alnico Permanent Magnets. Physical Review Applied, 2017, 8, .	1.5	7

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73	The solidification of Al-Pd-Mn studied by high-energy X-ray diffraction from electrostatically levitated samples. Zeitschrift Fur Kristallographie - Crystalline Materials, 2017, 232, 619-627.	0.4	0
74	Highly responsive ground state of PbTaSe_2 : Structural phase transition and evolution of superconductivity under pressure. Physical Review B, 2017, 95, .	1.1	13
75	Studies on in situ magnetic alignment of bonded anisotropic Nd-Fe-B alloy powders. Journal of Magnetism and Magnetic Materials, 2017, 422, 168-173.	1.0	29
76	Applications and limitations of electron correlation microscopy to study relaxation dynamics in supercooled liquids. Ultramicroscopy, 2017, 178, 125-130.	0.8	11
77	Structural ordering at solid-liquid interfaces in Al-Sm system: A molecular-dynamics study. Materials Letters, 2017, 186, 26-29.	1.3	18
78	Simulation of alnico coercivity. Applied Physics Letters, 2017, 111, .	1.5	27
79	Atomistic understanding of structural evolution in alnico alloys using advanced AC-STEM. Microscopy and Microanalysis, 2017, 23, 382-383.	0.2	0
80	Structural hierarchy as a key to complex phase selection in Al-Sm. Physical Review Materials, 2017, 1, .	0.9	14
81	Effect of AlN Substitutions on the Oxidation Behavior of ZrB_2 -SiC Composites at 1600°C. Journal of the American Ceramic Society, 2016, 99, 3389-3397.	1.9	14
82	Processing of alnico permanent magnets by advanced directional solidification methods. Journal of Magnetism and Magnetic Materials, 2016, 420, 152-157.	1.0	14
83	High-Temperature Oxidation of ZrB_2 -SiC-AlN Composites at 1600°C. Journal of the American Ceramic Society, 2016, 99, 808-813.	1.9	18
84	Correlative Energy-Dispersive X-Ray Spectroscopic Tomography and Atom Probe Tomography of the Phase Separation in an Alnico 8 Alloy. Microscopy and Microanalysis, 2016, 22, 1251-1260.	0.2	29
85	The solidification products of levitated Fe ₈₃ B ₁₇ studied by high-energy x-ray diffraction. Journal of Applied Physics, 2016, 120, 175104.	1.1	3
86	Processing of MnBi bulk magnets with enhanced energy product. AIP Advances, 2016, 6, .	0.6	48
87	Thermodynamic database for the Co-Pr system. Data in Brief, 2016, 6, 492-494.	0.5	1
88	Magnetic BiMn phase synthesis prediction: First-principles calculation, thermodynamic modeling and nonequilibrium chemical partitioning. Computational Materials Science, 2016, 120, 117-126.	1.4	5
89	The Different Roles of Entropy and Solubility in High Entropy Alloy Stability. ACS Combinatorial Science, 2016, 18, 596-603.	3.8	26
90	Effects of Oxygen Impurities on Glass-Formation Ability in Zr_2Cu Alloy. Journal of Physical Chemistry B, 2016, 120, 9223-9229.	1.2	18

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91	Role of chemically and thermally induced crystal lattice distortion in enhancing the Seebeck coefficient in complex tellurides. CrystEngComm, 2016, 18, 6632-6639.	1.3	2
92	Large energy product enhancement in perpendicularly coupled MnBi/CoFe magnetic bilayers. Physical Review B, 2016, 94, .	1.1	15
93	Stabilization of a Metastable Fibrous Bi _{21.2} (1)(Mn _{1-x} Cox) ₂₀ Phase with Pseudo-Pentagonal Symmetry Prepared Using a Bi Self-Flux. Chemistry of Materials, 2016, 28, 8484-8488.	3.2	2
94	â€ˆCrystal Genesâ€™™ in Metallic Liquids and Glasses. Scientific Reports, 2016, 6, 23734.	1.6	52
95	Characterizing Alnico Alloy by Correlative STEM-EDS Tomography and Atom Probe Tomography. Microscopy and Microanalysis, 2016, 22, 668-669.	0.2	0
96	Ab initiomolecular dynamics simulations of short-range order in Zr ₅₀ Cu ₄₅ Al ₅ and Cu ₅₀ Zr ₄₅ Al ₅ metallic glasses. Journal of Physics Condensed Matter, 2016, 28, 085102.	0.7	14
97	Medium-range structure and glass forming ability in Zrâ€™Cuâ€™Al bulk metallic glasses. Acta Materialia, 2016, 109, 103-114.	3.8	76
98	Magnetic properties of bulk, and rapidly solidified nanostructured (Nd _{1-x} Ce _x) ₂ Fe _{14-y} Co _y B ribbons. Acta Materialia, 2016, 103, 211-216.	3.8	104
99	Electron Correlation Microscopy: A New Technique for Studying Local Atom Dynamics Applied to a Supercooled Liquid. Microscopy and Microanalysis, 2015, 21, 1026-1033.	0.2	21
100	Structural and Ferromagnetic Properties of an Orthorhombic Phase of MnBi Stabilized with Rh Additions. Physical Review Applied, 2015, 4, .	1.5	21
101	Comparative study of local atomic structures in Zr ₂ Cu _x Ni _{1-x} (x=0, 0.5, 1) metallic glasses. Journal of Applied Physics, 2015, 118, .	1.1	11
102	Microstructural characterization of alnico 9 alloy. Microscopy and Microanalysis, 2015, 21, 1343-1344.	0.2	2
103	A computational study of diffusion in a glass-forming metallic liquid. Scientific Reports, 2015, 5, 10956.	1.6	11
104	Controlled Anisotropic Growth of Coâ€™Feâ€™P from Coâ€™Feâ€™O Nanoparticles. Angewandte Chemie - International Edition, 2015, 54, 9642-9645.	7.2	132
105	Local structure order in Pd ₇₈ Cu ₆ Si ₁₆ liquid. Scientific Reports, 2015, 5, 8277.	1.6	26
106	Diffusion in a Cu-Zr metallic glass studied by microsecond-scale molecular dynamics simulations. Physical Review B, 2015, 91, .	1.1	28
107	Magnetic Hardening of CeFe ₁₁ Ti and the Effect of TiC Addition. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	3
108	New alnico magnets fabricated from pre-alloyed gas atomization powder through diverse consolidation techniques. , 2015, , .		0

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109	New Alnico Magnets Fabricated From Pre-Alloyed Gas-Atomized Powder Through Diverse Consolidation Techniques. IEEE Transactions on Magnetics, 2015, 51, 1-3.	1.2	7
110	Bio-corrosion and Cytotoxicity Studies on Novel Zr ₅₅ Co ₃₀ Ti ₁₅ and Cu ₆₀ Zr ₂₀ Ti ₂₀ Metallic Glasses. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 2422-2430.	1.1	15
111	Dependence of medium-range order development in $Cu_{60}Zr_{20}Ti_{20}$ metallic glass on cooling rate. $Cu_{64}Zr_{20}Ti_{16}$ metallic glass. $Cu_{50}Zr_{50}$ alloy.	1.1	47
112	Appearance of metastable B2 phase during solidification of Ni ₅₀ Zr ₅₀ alloy: electrostatic levitation and molecular dynamics simulation studies. Journal of Physics Condensed Matter, 2015, 27, 085004.	0.7	17
113	Solute-solute correlations responsible for the prepeak in structure factors of undercooled Al-rich liquids: a molecular dynamics study. Journal of Physics Condensed Matter, 2015, 27, 205701.	0.7	7
114	Crystallization Kinetics and Phase Transformation Mechanisms in Cu ₅₆ Zr ₄₄ Glassy Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 3356-3364.	1.1	26
115	Effect of Temperature on the Nano/Microstructure and Mechanical Behavior of Nanotwinned Ag Films. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 4078-4085.	1.1	17
116	A high-throughput investigation of Fe-Cr-Al as a novel high-temperature coating for nuclear cladding materials. Nanotechnology, 2015, 26, 274003.	1.3	28
117	Cerium: An Unlikely Replacement of Dysprosium in High Performance Nd-Fe-B Permanent Magnets. Advanced Materials, 2015, 27, 2663-2667.	11.1	283
118	Stripe-like nanoscale structural phase separation in superconducting BaPb _{1-x} Bi _x O ₃ . Nature Communications, 2015, 6, 8231.	5.8	44
119	Discovery of a metastable Al ₂₀ Sm ₄ phase. Applied Physics Letters, 2015, 106, .	1.5	18
120	Novel pre-alloyed powder processing of modified alnico 8: Correlation of microstructure and magnetic properties. Journal of Applied Physics, 2015, 117, .	1.1	23
121	Magnetic hardening of Ce _{1+x} Fe _{11-y} Co _y Ti with ThMn ₁₂ structure by melt spinning. Journal of Applied Physics, 2015, 117, .	1.1	16
122	Optimization of strength and ductility in nanotwinned ultra-fine grained Ag: Twin density and grain orientations. Acta Materialia, 2015, 96, 378-389.	3.8	50
123	Improving the Spatial Resolution of Atomic-Scale EDS Mapping for Chemical Imaging and Quantification of Metallic Alloy Structures. Microscopy and Microanalysis, 2014, 20, 130-131.	0.2	0
124	Medium-range Order of Zr ₅₄ Cu ₃₈ Al ₈ Bulk Metallic Glass. Materials Research Society Symposia Proceedings, 2014, 1649, 1.	0.1	3
125	Class transition in a marginal glass-forming alloy studied by dynamic mechanical analysis. Journal of Applied Physics, 2014, 116, .	1.1	5
126	Anisotropic hot deformed magnets prepared from Zn-coated MRE-Fe-B ribbon powder (MRE = Nd ₂ Y ₃ Dy). Journal of Applied Physics, 2014, 115, 17A725.	1.1	3

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127	Strong correlations of dynamical and structural heterogeneities with localized soft modes in a Cu-Zr metallic glass. <i>Applied Physics Letters</i> , 2014, 105, 151910.	1.5	22
128	Impact of deformation on the atomic structures and dynamics of a Cu-Zr metallic glass: A molecular dynamics study. <i>Physical Review B</i> , 2014, 90, .	1.1	13
129	Novel processing of high-performance MnBi magnets. <i>Materials Research Express</i> , 2014, 1, 036108.	0.8	21
130	Thermal stability of MnBi magnetic materials. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 064212.	0.7	68
131	Role of the Applied Magnetic Field on the Microstructural Evolution in Alnico 8 Alloys. <i>Metallurgical and Materials Transactions E</i> , 2014, 1, 27-35.	0.5	12
132	Effects of sub- T_g annealing on Cu _{64.5} Zr _{35.5} glasses: A molecular dynamics study. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	51
133	Effect of composition and heat treatment on MnBi magnetic materials. <i>Acta Materialia</i> , 2014, 79, 374-381.	3.8	83
134	Structural and Magnetic Evolution of Bimetallic MnAu Clusters Driven by Asymmetric Atomic Migration. <i>Nano Letters</i> , 2014, 14, 1362-1368.	4.5	20
135	Structural modeling of liquid and amorphous Al ₉₁ Tb ₉ by Monte Carlo simulations. <i>Journal of Non-Crystalline Solids</i> , 2014, 405, 27-32.	1.5	7
136	Composition-dependent stability of the medium-range order responsible for metallic glass formation. <i>Acta Materialia</i> , 2014, 81, 337-344.	3.8	24
137	Development of MnBi permanent magnet: Neutron diffraction of MnBi powder. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	32
138	Local composition and carrier concentration in Pb _{0.7} Ge _{0.3} Te and Pb _{0.5} Ge _{0.5} Te alloys from ¹²⁵ Te NMR and microscopy. <i>Journal of Physics and Chemistry of Solids</i> , 2014, 75, 1269-1276.	1.9	1
139	Size-Induced Chemical and Magnetic Ordering in Individual Fe@Au Nanoparticles. <i>ACS Nano</i> , 2014, 8, 8113-8120.	7.3	36
140	Exploring the Structural Complexity of Intermetallic Compounds by an Adaptive Genetic Algorithm. <i>Physical Review Letters</i> , 2014, 112, 045502.	2.9	97
141	Formation of multilayered scale during the oxidation of NiAl-Mo alloy. <i>Applied Surface Science</i> , 2014, 301, 107-111.	3.1	32
142	Architecture and magnetism of alnico. <i>Acta Materialia</i> , 2014, 74, 224-233.	3.8	135
143	On-the-fly machine-learning for high-throughput experiments: search for rare-earth-free permanent magnets. <i>Scientific Reports</i> , 2014, 4, 6367.	1.6	212
144	Atomic-scale Chemical Imaging and Quantification of Metallic Alloy Structures by Energy-Dispersive X-ray Spectroscopy. <i>Scientific Reports</i> , 2014, 4, 3945.	1.6	64

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145	Solubility extension and phase formation in gas-condensed Co-W nanoclusters. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	8
146	Advances in Characterization of Non-Rare-Earth Permanent Magnets: Exploring Commercial Alnico Grades 5-7 and 9. Jom, 2013, 65, 862-869.	0.9	24
147	Systematic Mapping of Icosahedral Short-Range Order in a Melt-Spun $Zr_{36}Cu_{64}$ Glass. Physical Review Letters, 2013, 110, 205505.	2.9	93
148	Nucleation-Suppressed Phase Stabilization in Fe-Au Nanoparticles. Journal of Physical Chemistry C, 2013, 117, 24071-24078.	1.5	7
149	Phase and Elemental Distributions in Alnico Magnetic Materials. IEEE Transactions on Magnetics, 2013, 49, 3314-3317.	1.2	33
150	One-Pot Synthesis of Urchin-like FePd-Fe ₃ O ₄ and Their Conversion into Exchange-Coupled L10-FePd-Fe Nanocomposite Magnets. Nano Letters, 2013, 13, 4975-4979.	4.5	87
151	Combinatorial exploration of rare-earth-free permanent magnets: Magnetic and microstructural properties of Fe-Co-W thin films. Applied Physics Letters, 2013, 102, .	1.5	39
152	Structure of molten Al and eutectic Al-Si alloy studied by neutron diffraction. Journal of Non-Crystalline Solids, 2013, 361, 63-69.	1.5	22
153	Superheat-dependent microstructure of molten Al-Si alloys of different compositions studied by small angle neutron scattering. Journal of Alloys and Compounds, 2013, 550, 9-22.	2.8	63
154	Atomic dynamics in molten AlCu alloys of different compositions and at different temperatures by cold neutron scattering. Physica B: Condensed Matter, 2013, 412, 50-60.	1.3	20
155	Formation of non-equilibrium Fe-Au solid solutions in nanoclusters. Applied Physics Letters, 2013, 102, .	1.5	12
156	Effects of strontium impurity on the structure and dynamics of Al ₈₈ Si ₁₂ liquid. Journal of Physics Condensed Matter, 2013, 25, 245102.	0.7	6
157	Innovative applications of genetic algorithms to problems in accelerator physics. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	56
158	Effect of selective Co addition on magnetic properties of Nd ₂ (FeCo) ₁₄ B _{1±} -Fe nanocomposite magnets. Journal Physics D: Applied Physics, 2013, 46, 045001.	1.3	28
159	Reply to a Comment on "Rapid chemical and topological ordering in supercooled liquid Cu ₄₆ Zr ₅₄ ". Physical Review B, 2012, 85, .	1.1	1
160	L10 structure formation in slow-cooled Fe-Au nanoclusters. Applied Physics Letters, 2012, 100, 211911. Field-tuned superconductor-insulator transition in BaPb _{1-x} Bi _x O ₃ .	1.5	16
161	Effects of Ag additions on melt-spun RE ₂ Fe ₁₄ B microstructure and texture. Journal of Applied Physics, 2012, 111, .	1.1	20
162	Effects of Ag additions on melt-spun RE ₂ Fe ₁₄ B microstructure and texture. Journal of Applied Physics, 2012, 111, .	1.1	0

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181	Spatially Resolved Distribution Function and the Medium-Range Order in Metallic Liquid and Glass. <i>Scientific Reports</i> , 2011, 1, 194.	1.6	69
182	Highly optimized embedded-atom-method potentials for fourteen fcc metals. <i>Physical Review B</i> , 2011, 83, .	1.1	422
183	Self-nanoscaling of the soft magnetic phase in bulk SmCo/Fe nanocomposite magnets. <i>Journal of Materials Science</i> , 2011, 46, 6065-6074.	1.7	49
184	Anointing Chemicals and Hematophagous Arthropods: Responses by Ticks and Mosquitoes to Citrus (Rutaceae) Peel Exudates and Monoterpene Components. <i>Journal of Chemical Ecology</i> , 2011, 37, 348-359.	0.9	52
185	High-Accuracy X-Ray Diffraction Analysis of Phase Evolution Sequence During Devitrification of Cu ₅₀ Zr ₅₀ Metallic Glass. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 1144-1153.	1.1	32
186	Correlation between microstructure and first-order magnetization reversal in the SmCo ₅ /Fe nanocomposite magnets. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 1329-1332.	0.9	26
187	Studies of microstructure and magnetic properties in sintered mixed rare earth (MRE) -Fe-B magnets (MRE = Nd+La+Dy). <i>Journal of Applied Physics</i> , 2011, 109, 07A704.	1.1	22
188	Effective grain pinning revealed by nanoscale electron tomography. <i>Journal of Applied Physics</i> , 2011, 109, 07A705.	1.1	3
189	Medium-range order in Zr ₈₀ Pt ₂₀ liquid. <i>Physical Review B</i> , 2011, 84, .	1.1	89
190	Rapid chemical and topological ordering in supercooled liquid Cu ₄₆ Zr ₅₄ liquid. <i>Physical Review B</i> , 2011, 84, .	1.1	75
191	Bulk SmCo ₅ /Fe nanocomposite permanent magnets fabricated by mould-free Joule-heating compaction. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	25
192	Stabilization of an ambient-pressure collapsed tetragonal phase in CaFe ₂ As ₂ . <i>Physical Review B</i> , 2011, 84, .	1.1	81
193	Medium-range order in quasicrystal-forming Zr ₈₀ Si ₂₀ binary metallic glass. <i>Physical Review B</i> , 2011, 84, .	1.1	29
194	Medium-range icosahedral order in quasicrystal-forming Zr ₂ Pd binary metallic glass. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	13
195	Transmission electron microscopy study on Co/Fe interdiffusion in SmCo ₅ /Fe and Sm ₂ Co ₇ /Fe/Sm ₂ Co ₇ thin films. <i>Journal of Applied Physics</i> , 2011, 110, 053914.	1.1	10
196	Reliability of methods of computer simulation of structure of amorphous alloys. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	17
197	Atomistic comparison of volume-dependent melt properties from four models of aluminum. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2010, 18, 074001.	0.8	24
198	Composition dependent phase transformation of Pt _{0.5} Mn _{0.5+x} from A1 to L10 phase. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 99, 471-475.	1.1	0

#	ARTICLE	IF	CITATIONS
199	A multi-stage hierarchical approach to alloy design. <i>Jom</i> , 2010, 62, 25-29.	0.9	14
200	Influence of surface oxidation on transmission electron microscopy characterization of Fe-Ga alloys. <i>Materials Characterization</i> , 2010, 61, 598-602.	1.9	5
201	Microscopic origin of slow dynamics at the good glass forming composition range in $Zr_{1-x}Cu_x$ metallic liquids. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	92
202	<i>In Situ</i> Observation of Antisite Defect Formation during Crystal Growth. <i>Physical Review Letters</i> , 2010, 105, 245501.	2.9	12
203	Atomic size and chemical effects on the local order of Zr_2 alloy. <i>Physical Review Letters</i> , 2010, 105, 215502.	1.1	55
204	Achieving Large Uniform Tensile Ductility in Nanocrystalline Metals. <i>Physical Review Letters</i> , 2010, 105, 215502.	2.9	54
205	Computational and Experimental Design of Novel High Temperature Alloys. <i>Advances in Science and Technology</i> , 2010, 72, 31-39.	0.2	0
206	Improved energy product in grained aligned and sintered MRE ₂ Fe ₁₄ B magnets (MRE=Y+Dy+Nd). <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	17
207	In situ observation of thermal expansion of tetragonal C11b phase in $Zr_2Cu(1-x)Pdx$ alloys. <i>Intermetallics</i> , 2010, 18, 8-13.	1.8	6
208	Local structure in marginal glass forming Al-Sm alloy. <i>Intermetallics</i> , 2010, 18, 1676-1682.	1.8	40
209	Initial crystallization in a nanostructured Al-Sm rare earth alloy. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 1416-1424.	1.5	31
210	Applications of an extended Miedema's model for ternary alloys. <i>Journal of Alloys and Compounds</i> , 2010, 489, 357-361.	2.8	72
211	Observation of two separate charge density wave transitions in Gd ₂ Te ₅ via transmission electron microscopy and high-resolution X-ray diffraction. <i>Journal of Alloys and Compounds</i> , 2010, 489, 332-335.	2.8	3
212	Short- and medium-range order in amorphous Zr_2 alloy. <i>Physical Review B</i> , 2010, 81, .	1.1	38
213	Microstructure and intergranular diffusion in exchange-coupled Sm-Co/Fe nanocomposites. <i>Applied Physics Letters</i> , 2010, 97, 032506.	1.5	35
214	Fabrication of bulk nanocomposite magnets via severe plastic deformation and warm compaction. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	96
215	Early stages of direct L10 FePt nanocluster formation: The effects of plasma characteristics. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010, 28, 273-276.	0.6	9
216	10.1063/1.3358390.1. , 2010, , .		5

#	ARTICLE	IF	CITATIONS
217	Strain dependence of peak widths of reciprocal- and real-space distribution functions of metallic glasses from <i>in situ</i> x-ray scattering and molecular dynamics simulations. <i>Physical Review B</i> , 2009, 80, .	1.1	6
218	Magnetic properties and microstructure of gas atomized MRE ₂ (Fe,Co) ₁₄ B powder with ZrC addition (MRE=Nd+Y+Dy). <i>Journal of Applied Physics</i> , 2009, 105, 07A728.	1.1	5
219	Experimental and <i>ab initio</i> molecular dynamics simulation studies of liquid $Al_{60}Si_{40}$. <i>Physical Review B</i> , 2009, 79, .	1.1	106
220	Determining strain in amorphous alloys: Uncertainties with analyzing structural changes during deformation. <i>Journal of Applied Physics</i> , 2009, 105, 023509.	1.1	1
221	In situ high energy x-ray synchrotron diffraction study of the synthesis and stoichiometry of LaFeAsO and LaFeAsO _{1-x} F _y . <i>Journal of Applied Physics</i> , 2009, 105, 123912.	1.1	10
222	Correlation of the energy product with evolution of the nanostructure in the Y,Dy,Nd-(Fe, Co)-B magnetic alloy. <i>Journal of Applied Physics</i> , 2009, 105, 07A720.	1.1	5
223	Analysis of Nanostructuring in High Figure-of-Merit Ag _x Pb _m SbTe _{2+m} Thermoelectric Materials. <i>Advanced Functional Materials</i> , 2009, 19, 1254-1259.	7.8	106
224	Influence of oxygen on the structure and devitrification pathways in Zr _{66.7} Ni _{33.3} and Zr _{66.7} Cu _{33.3} amorphous systems. <i>Journal of Alloys and Compounds</i> , 2009, 484, 914-919.	2.8	13
225	Experimental and <i>ab initio</i> structural studies of liquid $Zr_{20}Ti_{80}$. <i>Physical Review B</i> , 2009, 79, .	1.1	35
226	Structural heterogeneity and medium-range order in $Zr_{20}Ti_{80}$ glasses. <i>Physical Review B</i> , 2009, 80, .	1.1	225
227	Intra-cluster exchange-coupled high-performance permanent magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, 2576-2583.	1.0	18
228	Anelastic strain and structural anisotropy in homogeneously deformed Cu _{64.5} Zr _{35.5} metallic glass. <i>Acta Materialia</i> , 2008, 56, 5575-5583.	3.8	18
229	Time-resolved studies of the order-disorder phase transformations in rare-earth-transition metal intermetallics with 2-17 stoichiometry. <i>Journal of Materials Research</i> , 2008, 23, 2886-2896.	1.2	5
230	Microstructure analysis of a SmCo/Fe exchange spring bilayer. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	35
231	Phase formation in rapidly solidified R ₂ T ₁₇ intermetallics. <i>Journal of Alloys and Compounds</i> , 2008, 463, 207-212.	2.8	6
232	Evaluation of phase equilibria in the Nb-rich portion of Nb-B system. <i>Intermetallics</i> , 2008, 16, 255-261.	1.8	12
233	Characterization and oxidation behavior of silicide coating on multiphase Mo-Si-B alloy. <i>Intermetallics</i> , 2008, 16, 1125-1133.	1.8	60
234	Bioinspired synthesis of self-assembled calcium phosphate nanocomposites using block copolymer-peptide conjugates. <i>Journal of Materials Research</i> , 2008, 23, 3196-3212.	1.2	22

#	ARTICLE	IF	CITATIONS
235	Deformation behavior of an amorphous Cu _{64.5} Zr _{35.5} alloy: A combined computer simulation and experimental study. Journal of Applied Physics, 2008, 104, .	1.1	24
236	Short- and medium-range order in a $Zr_{1-x}Te_x$ system. Experimental and simulation studies. Physical Review B, 2008, 78, http://www.w3.org/1998/Math/MathML	1.1	73
237	Short- and medium-range order in a $Zr_{1-x}Te_x$ system. Experimental and simulation studies. Physical Review B, 2008, 78, http://www.w3.org/1998/Math/MathML	1.1	14
238	High thermal stability of carbon-coated L10-FePt nanoparticles prepared by salt-matrix annealing. Journal of Applied Physics, 2008, 103, .	1.1	43
239	Nearest-neighbor coordination and chemical ordering in multicomponent bulk metallic glasses. Applied Physics Letters, 2007, 90, 211908.	1.5	46
240	Structural phase transition and ferromagnetism in monodisperse 3 nm FePt particles. Journal of Applied Physics, 2007, 102, .	1.1	35
241	Reply to "Comment on "Extrinsic origin of the insulating behavior of polygrain icosahedral Al-Pd-Re quasicrystals". Physical Review B, 2007, 76, .	1.1	4
242	Order-disorder transformations in Sm ₂ Co and SmCo ₂ ZrC systems with 2-17 stoichiometry. Journal of Applied Physics, 2007, 101, 09K521.	1.1	5
243	Anisotropic atomic structure in a homogeneously deformed metallic glass. Journal of Materials Research, 2007, 22, 382-388.	1.2	13
244	Structure of molten Al ₂ Si alloys. Journal of Non-Crystalline Solids, 2007, 353, 3005-3010.	1.5	54
245	Diffusion of Cu in AlCu alloys of different composition by quasielastic neutron scattering. Journal of Non-Crystalline Solids, 2007, 353, 3295-3299.	1.5	29
246	Metastable phase formation in rapidly quenched Zr ₈₀ Pt ₂₀ alloys: Linkage to oxygen. Journal of Non-Crystalline Solids, 2007, 353, 3439-3443.	1.5	0
247	Rapid solidification and metallic glass formation " Experimental and theoretical limits. Journal of Non-Crystalline Solids, 2007, 353, 3633-3639.	1.5	55
248	Nature of the cubic to rhombohedral structural transformation in (AgSbTe ₂) ₁₅ (GeTe) ₈₅ thermoelectric material. Journal of Applied Physics, 2007, 101, 053715.	1.1	122
249	Computer simulation and experimental study of elastic properties of amorphous Cu-Zr alloys. Journal of Applied Physics, 2007, 102, .	1.1	64
250	Bulk FePt ₂ Fe ₃ Pt nanocomposite magnets prepared by spark plasma sintering. Journal of Applied Physics, 2007, 101, 09K515.	1.1	24
251	Comparison of microstructure and magnetic properties of gas-atomized and melt-spun MRE ₂ Fe ₂ Co ₂ M ₂ B (MRE=Y+Dy+Nd, M=Zr+TiC). Journal of Applied Physics, 2007, 101, 09K510.	1.1	2
252	Using atomistic computer simulations to analyze x-ray diffraction data from metallic glasses. Journal of Applied Physics, 2007, 102, .	1.1	300

#	ARTICLE	IF	CITATIONS
253	Theoretical and experimental studies of devitrification pathways in the $Zr_2Cu_{1-x}Pdx$ metallic glass system. <i>Acta Materialia</i> , 2007, 55, 5901-5909.	3.8	13
254	Critical bond lengths and their role in spontaneous magnetostriction of $R_2Fe_{17}CX$ ($R=Y, Nd, Gd, Tb$). <i>Journal of Applied Physics</i> , 2007, 100, 104301.	1.0	3
255	A strategy for rapid analysis of the variations in the reduced distribution function of liquid metals and metallic glasses. <i>Journal of Applied Crystallography</i> , 2007, 40, 77-86.	1.9	10
256	In-situ elevated-temperature TEM study of $(AgSbTe_2)_{15}(GeTe)_{85}$. <i>Journal of Materials Science</i> , 2007, 42, 7643-7646.	1.7	41
257	A common pumiliotoxin from poison frogs exhibits enantioselective toxicity against mosquitoes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 17818-17821.	3.3	41
258	Extrinsic origin of the insulating behavior of polygrain icosahedral $Al_{70}Pd_{30}$ quasicrystals. <i>Physical Review B</i> , 2006, 74, .	1.1	24
259	Microstructure and Magnetic Properties of Rapidly Quenched $Pr_9Fe_{91-x}B_x$ ($x=4-12$) Nanocomposite Magnets. <i>Journal of Iron and Steel Research International</i> , 2006, 13, 177-182.	1.4	3
260	Superstructure in $RE_2-xFe_4Si_{14-y}$ ($RE = Y, Gd-Lu$) Characterized by Diffraction, Electron Microscopy, and Mössbauer Spectroscopy. <i>Inorganic Chemistry</i> , 2006, 45, 10503-10519.	1.9	12
261	Microstructure and oxidation behavior of $Nb-Mo-Si-B$ alloys. <i>Intermetallics</i> , 2006, 14, 24-32.	1.8	64
262	High-energy X-ray measurements of structural anisotropy and excess free volume in a homogeneously deformed Zr-based metallic glass. <i>Acta Materialia</i> , 2006, 54, 2463-2471.	3.8	32
263	Magnetic aspects of the ferromagnetic bulk metallic glass alloy system $Nd-Fe-Al$. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 299, 265-280.	1.0	35
264	High-resolution XANES study of $Eu(Ba_{1-x}R_x)_2Cu_3O_{7+\delta}$ ($R = Eu, Pr$). <i>New Journal of Physics</i> , 2006, 8, 215-215.	1.2	3
265	Quasicrystal formation in Zr-Cu-Ni-Al-Ta metallic glasses and composites. <i>Philosophical Magazine</i> , 2006, 86, 299-307.	0.7	2
266	Glass formation and crystallization in binary $Zr-Pt$ systems. <i>Philosophical Magazine</i> , 2006, 86, 443-449.	0.7	9
267	Synthesis and characterization of hexagonal $Cd_{51}Yb_{14}$ single crystals. <i>Philosophical Magazine</i> , 2006, 86, 381-387.	0.7	4
268	Influence of Pd on formation of amorphous and quasicrystal phases in rapidly quenched $Zr_2Cu_{(1-x)}Pdx$. <i>Philosophical Magazine</i> , 2006, 86, 389-395.	0.7	6
269	The mechanism of magnetic properties improvement and microstructure refinement of Zr in $Nd_2Fe_{14}B$. <i>Journal of Applied Physics</i> , 2006, 99, 08B511.	1.1	6
270	Microanalytical characterization of multi-rare-earth nanocrystalline magnets by transmission electron microscopy and atom probe tomography. <i>Journal of Applied Physics</i> , 2006, 99, 08B515.	1.1	5

#	ARTICLE	IF	CITATIONS
271	Phase-separated alloys for bulk exchange-biased permanent magnets. <i>Journal of Applied Physics</i> , 2006, 99, 08E908.	1.1	7
272	Effect of TiC addition on microstructure and magnetic properties for MRE ₂ (Fe,Co) ₁₄ B melt-spun ribbons (MRE=Nd+Y+Dy). <i>Journal of Applied Physics</i> , 2006, 99, 08B510.	1.1	21
273	Superconductivity in MgB ₂ doped with Ti and C. <i>Physica C: Superconductivity and Its Applications</i> , 2005, 418, 160-167.	0.6	21
274	Organochlorines and dioxin-like compounds in green-lipped mussels <i>Perna viridis</i> from Hong Kong mariculture zones. <i>Marine Pollution Bulletin</i> , 2005, 51, 677-687.	2.3	27
275	Spontaneous magnetostriction in R ₂ Fe ₁₄ B (R=Y, Nd, Gd, Tb, Er). <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 295, 65-76.	1.0	25
276	A comparative study on the microstructure and magnetic properties of melt-spun RE ₂ /Fe ₁₄ B//spl alpha-/Fe and RE ₂ /Fe ₁₄ B/Fe ₃ B (RE=Nd, Pr) nanocomposites. <i>IEEE Transactions on Magnetics</i> , 2005, 41, 3862-3864.	1.2	2
277	Oxidation behavior of multiphase Nb-Mo-Si-B intermetallics. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005, 36, 601-607.	1.1	18
278	Chlorination treatment to improve the oxidation resistance of Nb-Mo-Si-B alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005, 36, 609-615.	1.1	11
279	Solid and liquid thermal expansion and structural observations in the quasicrystalline Cd ₈₄ Yb ₁₆ compound. <i>Philosophical Magazine Letters</i> , 2005, 85, 151-162.	0.5	4
280	Effect of Zr substitution on microstructure and magnetic properties of YDy-based R ₂ Fe ₁₄ B magnets (R=Y+Dy+Nd). <i>Journal of Applied Physics</i> , 2005, 97, 10H106.	1.1	6
281	New YDy-Based R ₂ (Fe,Co) ₁₄ B Melt-Spun Magnets (R=Y+Dy+Nd). <i>Materials Science Forum</i> , 2005, 475-479, 2155-2160.	0.3	16
282	Formation and magnetic properties of the RE-based compounds of type RE ₆ Fe ₁₃ Al _{1+x} (RE = Pr, Sm, Gd). <i>Journal of Alloys and Compounds</i> , 2005, 388, 104-108.	2.8	5
283	Polymorphism in the short-range order of Zr ₇₀ Pd ₃₀ metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 1586-1593.	1.5	8
284	Absence of crystallization during cylindrical indentation of a Zr-based metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 2159-2165.	1.5	12
285	Magnetic properties of single grain R-Mg-Cd primitive icosahedral quasicrystals (R=Y, Gd, Tb or Dy). <i>Philosophical Magazine</i> , 2004, 84, 1029-1037.	0.7	23
286	Behavior of Nb Atoms in Nb Substituted Nd ₂ Fe ₁₄ B Nanocrystalline Alloys Investigated by Atom Probe Tomography. <i>IEEE Transactions on Magnetics</i> , 2004, 40, 2886-2888.	1.2	12
287	Microstructure and Oxidation Behavior of Plasma Sprayed Mo-Si-B Intermetallic Coatings. <i>Key Engineering Materials</i> , 2004, 264-268, 509-512.	0.4	2
288	A study on the role of Nb in melt-spun nanocrystalline Nd-Fe-B magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 268, 105-113.	1.0	58

#	ARTICLE	IF	CITATIONS
289	Oxidation behavior of Mo–Si–B alloys in wet air. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 371, 335-342.	2.6	51
290	Growth and physical properties of the decagonal Al–Cu–Co quasicrystal grown from the ternary melt. <i>Philosophical Magazine</i> , 2004, 84, 1291-1302.	0.7	15
291	Crystal structure of the hexagonal Zn ₃ MgY phase. <i>Journal of Alloys and Compounds</i> , 2004, 373, 156-160.	2.8	26
292	Influence of oxygen content in phase selection during quenching of Zr ₈₀ Pt ₂₀ melt spun ribbons. <i>Intermetallics</i> , 2004, 12, 1211-1217.	1.8	26
293	Influence of short-range order on devitrification in Zr ₇₀ Pd ₂₀ Cu ₁₀ metallic glasses. <i>Intermetallics</i> , 2004, 12, 1119-1124.	1.8	10
294	Microstructure evolution in Pr-Co-C-Ti nanophase magnets. <i>Applied Physics A: Materials Science and Processing</i> , 2003, 76, 987-989.	1.1	1
295	On the control of microstructure in rapidly solidified Nd–Fe–B alloys through melt treatment. <i>Journal of Magnetism and Magnetic Materials</i> , 2003, 267, 307-315.	1.0	14
296	Nanostructural aspects, free volume and phase constitution of rapidly solidified Nd–Fe–B. <i>Journal of Non-Crystalline Solids</i> , 2003, 315, 256-270.	1.5	4
297	Devitrification studies of Zr–Pd and Zr–Pd–Cu metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2003, 317, 62-70.	1.5	21
298	Consolidation of gas atomized Cu ₄₇ Ti ₃₄ Zr ₁₁ Ni ₈ amorphous powders. <i>Journal of Non-Crystalline Solids</i> , 2003, 317, 137-143.	1.5	28
299	Microstructures and phase formation in rapidly solidified Sm–Fe alloys. <i>Journal of Alloys and Compounds</i> , 2003, 351, 106-113.	2.8	14
300	Microstructural control of Nb addition in nanocrystalline hard magnets with different Nd content. <i>IEEE Transactions on Magnetics</i> , 2003, 39, 2935-2937.	1.2	17
301	Discovery of Critical Oxygen Content for Glass Formation in Zr ₈₀ Pt ₂₀ Melt Spun Ribbons. <i>Materials Science Forum</i> , 2003, 426-432, 1903-1908.	0.3	0
302	Local Order in Single Grain Cd-Yb Icosahedral Phase. <i>Materials Research Society Symposia Proceedings</i> , 2003, 805, 20.	0.1	1
303	Metastable States During Devitrification of a Zr ₇₀ Pd ₂₀ Cu ₁₀ Metallic Glass. <i>Materials Research Society Symposia Proceedings</i> , 2003, 805, 218.	0.1	0
304	Effects of Oxygen on Meta-stable Phase Formation in Zr ₈₀ Pt ₂₀ Melt Spun Ribbons. <i>Materials Research Society Symposia Proceedings</i> , 2003, 805, 62.	0.1	0
305	Structural Relationships between QC and Meta-stable Crystalline Phases in Melt Spun Zr ₈₀ Pt ₂₀ Ribbons. <i>Materials Research Society Symposia Proceedings</i> , 2003, 805, 260.	0.1	0
306	Oxygen-stabilized glass formation in Zr ₈₀ Pt ₂₀ melt-spun ribbons. <i>Applied Physics Letters</i> , 2003, 83, 69-71.	1.5	45

#	ARTICLE	IF	CITATIONS
307	Formation of metastable Pr ₂ /Fe ₂₃ /B ₃ phase and its effect on magnetic properties in rapidly quenched Pr ₉ /Fe _{91-X} /B _X nanocomposites. IEEE Transactions on Magnetics, 2003, 39, 2938-2940.	1.2	19
308	High hysteresis in a homogeneous metallic glass. Journal of Applied Physics, 2003, 93, 7969-7971.	1.1	3
309	Role of the Fe sublattice on the Invar anomaly in R ₂ Fe ₁₄ B compounds. Journal of Applied Physics, 2003, 93, 7990-7992.	1.1	7
310	Processing induced changes in Curie temperature of Nd ₂ Fe ₁₄ B melt-spun ribbons. Journal of Applied Physics, 2003, 93, 7993-7995.	1.1	1
311	Development of improved powder for bonded permanent magnets. IEEE Transactions on Magnetics, 2003, 39, 2971-2973.	1.2	5
312	In situ determination of Nd-Fe-B crystallization pathways. Journal of Applied Physics, 2002, 91, 8156.	1.1	2
313	Synthesis route-dependent formation of quasicrystals in Zr ₇₀ Pd ₃₀ and Zr ₇₀ Pd ₂₀ Cu ₁₀ amorphous alloys. Applied Physics Letters, 2002, 80, 4735-4737.	1.5	22
314	The thermal, magnetic, and structural characterization of the crystallization kinetics of Fe ₈₈ /Zr ₇ /B ₄ /Cu ₁ , an amorphous soft magnetic ribbon. IEEE Transactions on Magnetics, 2002, 38, 3039-3044.	1.2	48
315	The electrical conductivity of single-grain Al-Pd-Re quasicrystals. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 1089-1098.	0.6	5
316	The electrical conductivity of single-grain Al-Pd-Re quasicrystals. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 1089-1098.	0.6	12
317	Synthesis of Cu ₄₇ Ti ₃₄ Zr ₁₁ Ni ₈ Bulk Metallic Glass by Warm Extrusion of Gas Atomized Powders. Journal of Materials Research, 2002, 17, 186-198.	1.2	79
318	Optimization of Mo-Si-B Intermetallics. Materials Research Society Symposia Proceedings, 2002, 753, 1.	0.1	0
319	The local atomic structure of R-Mg-Zn (R=Y, Gd, Dy and Tb). Journal of Alloys and Compounds, 2002, 342, 82-86.	2.8	11
320	Measuring crystal structure dynamics during polymorphic phase transitions. Journal of Alloys and Compounds, 2002, 338, 235-241.	2.8	9
321	Formation of quasicrystals in Zr-Pd-(Cu) melt spun ribbons and mechanically milled powders. Intermetallics, 2002, 10, 1233-1240.	1.8	13
322	Solidification, microstructural refinement and magnetism in Nd ₂ Fe ₁₄ B. Journal of Magnetism and Magnetic Materials, 2002, 241, 144-155.	1.0	37
323	Magnetic force microscopy study of magnetization reversal in sputtered FeSiAl(N) films. Journal of Applied Physics, 2001, 89, 2868-2872.	1.1	6
324	Origins of coercivity in the amorphous alloy Nd-Fe-Al. IEEE Transactions on Magnetics, 2001, 37, 2497-2499.	1.2	46

#	ARTICLE	IF	CITATIONS
325	Processing and mechanical properties of a molybdenum silicide with the composition $\text{Mo}_{12}\text{Si}_{8.5}\text{B}$ (at.%). <i>Intermetallics</i> , 2001, 9, 25-31.	1.8	137
326	Time-resolved studies of $\text{Ti}_{34}\text{Cu}_{47}\text{Zr}_{11}\text{Ni}_8\text{Si}_6$ metallic glass devitrification using high temperature X-ray powder diffraction. <i>Journal of Non-Crystalline Solids</i> , 2001, 290, 163-172.	1.5	20
327	Structural aspects of the fivefold quasicrystalline Al-Cu-Fe surface from STM and dynamical LEED studies. <i>Surface Science</i> , 2001, 495, 19-34.	0.8	54
328	Solidification, quenching gas and magnetic properties in melt-spun $\text{Nd}_{2/3}\text{Fe}_{1/3}$. <i>IEEE Transactions on Magnetics</i> , 2001, 37, 2486-2488.	1.2	3
329	Determination of Auger sensitivity factors for Al-rich quasicrystals. <i>Applied Surface Science</i> , 2001, 180, 57-64.	3.1	13
330	Magnetic and Microstructural Aspects of the Bulk Metallic Glassy Materials $\text{Nd}_{60}\text{Fe}_{30}\text{Al}_{10}$. <i>Materials Research Society Symposia Proceedings</i> , 2001, 674, 1.	0.1	5
331	Reentrant behavior in the temperature dependence of metamagnetic transitions in single crystal $\text{Nd}_{6/13-x}\text{Fe}_{13-x}\text{Al}_{1+x}$. <i>IEEE Transactions on Magnetics</i> , 2001, 37, 2147-2149.	1.2	7
332	Site-specific electronic structure of Pr in $\text{Pr}_{1+x}\text{Ba}_{2-x}\text{Cu}_3\text{O}_{7-\delta}$. <i>Physical Review B</i> , 2001, 63, .	1.1	5
333	Achieving optimum loop shapes in quaternary Pr-Co alloys. <i>Journal of Applied Physics</i> , 2000, 87, 6737-6739.	1.1	13
334	The Thermal Stability of a Single-Grain Mg-Zn-Y Icosahedral Quasicrystal. <i>Materials Research Society Symposia Proceedings</i> , 2000, 643, 941.	0.1	1
335	Substitution for Ba by Pr, La, and Eu in $\text{Eu}(\text{Ba}_{1-x}\text{R}_x)_2\text{Cu}_3\text{O}_{7-\delta}$ solid solutions. <i>Physica C: Superconductivity and Its Applications</i> , 2000, 333, 195-206.	0.6	22
336	<i>In situ</i> Growth of SiC Whisker in Pyrolyzed Monolithic Mixture of AHPCS and SiC. <i>Journal of the American Ceramic Society</i> , 2000, 83, 2961-2966.	1.9	39
337	Engineering magnetic nanocomposite microstructures. <i>Journal of Materials Science</i> , 2000, 35, 3459-3466.	1.7	8
338	Microstructure of a Plasma-Sprayed Mo-Si-B Alloy. <i>Journal of Thermal Spray Technology</i> , 2000, 9, 90-94.	1.6	8
339	Time resolved studies of phase transformations using high temperature powder diffraction. <i>AIP Conference Proceedings</i> , 2000, , .	0.3	2
340	Effects of Interstitial Additions on the Structure of Ti_5Si_3 . <i>Journal of Materials Research</i> , 2000, 15, 1773-1779.	1.2	30
341	Compositional clustering in $\text{Nd}_2\text{Fe}_{14}\text{B}$ melt-spun ribbons. <i>Journal of Applied Physics</i> , 2000, 87, 4735-4737.	1.1	3
342	Valence determination as a function of doping in $\text{PrBa}_2\text{Cu}_3\text{O}_7$. <i>Physical Review B</i> , 2000, 61, 1548-1554.	1.1	23

#	ARTICLE	IF	CITATIONS
343	Thermal Expansion of Ti_5Si_3 with Ce, B, C, N, or O Additions. Journal of Materials Research, 2000, 15, 1780-1785.	1.2	38
344	Nd-Fe-B alloys containing NdAu nano particles. Journal of Alloys and Compounds, 2000, 308, 244-249.	2.8	1
345	Theoretical calculations and experimental measurements of the structure of Ti_5Si_3 with interstitial additions. Intermetallics, 2000, 8, 937-943.	1.8	57
346	Solubility of boron in $Mo_{5+y}Si_3$. Intermetallics, 2000, 8, 143-150.	1.8	34
347	A LEED comparison of structural stabilities of the three high-symmetry surfaces of Al-Pd-Mn bulk quasicrystals. Surface Science, 2000, 450, 1-11.	0.8	38
348	METAL RICH STRUCTURAL SILICIDES. , 2000, , .		1
349	New high temperature furnace for structure refinement by powder diffraction in controlled atmospheres using synchrotron radiation. Review of Scientific Instruments, 1999, 70, 3554-3561.	0.6	51
350	Maximizing loop squareness by minimizing gradients in the microstructure. Journal of Applied Physics, 1999, 85, 5923-5925.	1.1	17
351	Atomic structure of the amorphous state of TiC-modified $Nd_2Fe_{14}B$ as revealed by positron annihilation spectroscopy. Journal of Applied Physics, 1999, 85, 5929-5931.	1.1	3
352	Superconductivity suppression of $R(Ba_{1-x}R_z)2Cu3O7$ ($R=Nd,Pr$) probed by soft-x-ray absorption spectroscopy. Physical Review B, 1999, 59, 3855-3861.	1.1	11
353	On the growth of icosahedral Al-Pd-Mn quasicrystals from the ternary melt. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 1673-1684.	0.6	43
354	On the growth of decagonal Al-Ni-Co quasicrystals from the ternary melt. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 425-434.	0.6	67
355	Boron-doped molybdenum silicides for structural applications. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 261, 16-23.	2.6	160
356	The Dislocation Structure of a Single-Crystal $\beta + \beta'$ Two-Phase Alloy After Tensile Deformation. Materials Characterization, 1999, 43, 293-301.	1.9	3
357	Effects of Quenching Environment on the Structure of Melt- Spun $Nd_2Fe_{14}B$. Materials Research Society Symposia Proceedings, 1999, 577, 57.	0.1	8
358	Superconductivity Suppression in $(Nd_{1.05-x}Pr_x)Ba_{1.95}Cu_3O_7$ Studied By X-Ray Absorption Spectroscopy. , 1999, , 211-216.		0
359	Soft X-ray absorption study of $(Nd_{1.05-x}Pr_x)Ba_{1.95}Cu_3O_7$ using synchrotron radiation. Chemical Physics Letters, 1998, 294, 209-216.	1.2	4
360	Functionally gradient superconducting foils by plasma spraying. Journal of Materials Science, 1998, 33, 3121-3129.	1.7	3

#	ARTICLE	IF	CITATIONS
361	Solubility limits of $\text{La}_{1-x}\text{Ba}_x\text{Cu}_3\text{O}_{7-\delta}$. Applied Superconductivity, 1998, 6, 87-107.	0.5	27
362	Superconductivity in reduced and then reoxidized $\text{Nd}_{1.05}\text{Ba}_{1.95}(\text{Cu}_{1-x}\text{Fe}_x)_3\text{O}_{7-\delta}$. Physica C: Superconductivity and Its Applications, 1998, 294, 194-202.	0.6	2
363	The surface structure of a $\text{Al}(\text{Cu}_{1-x}\text{Fe}_x)$ -(110) film formed on an AlCuFe quasicrystal substrate, analyzed by dynamical LEED. Surface Science, 1998, 411, 86-98.	0.8	23
364	Effect of TiC additions to the microstructure and magnetic properties of $\text{Nd}_{9.5}\text{Fe}_{84.5}\text{B}_6$ melt-spun ribbons. Journal of Applied Physics, 1998, 83, 6631-6633.	1.1	14
365	Growth of large-grain R-Mg-Zn quasicrystals from the ternary melt (R = Y, Er, Ho, Dy and Tb). The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 1601-1615.	0.6	100
366	Crystalline surface structures induced by ion sputtering of Al-rich icosahedral quasicrystals. Physical Review B, 1998, 58, 9961-9971.	1.1	89
367	High Temperature X-Ray Diffraction in Transmission Under Controlled Environment. Materials Research Society Symposia Proceedings, 1998, 524, 139.	0.1	0
368	Hydrogen absorption and storage in quasicrystalline and related Ti-Zr-Ni alloys. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1998, 78, 131-141.	0.8	11
369	Suppression of superconductivity in the $\text{R}(\text{Ba}_{1-x}\text{R}_x)_2\text{Cu}_3\text{O}_{7-\delta}$ (R=Pr,Nd) system. Physical Review B, 1997, 56, 5512-5517.	1.1	44
370	Mechanism for flux pinning in $\text{NdBa}_2\text{Cu}_3\text{O}_{7-\delta}$ melt-textured in low oxygen partial pressure. Applied Physics Letters, 1997, 71, 3572-3574.	1.5	26
371	Soft-x-ray absorption spectroscopy of $\text{Nd}_{1-x}\text{Ba}_x\text{Cu}_3\text{O}_{7-\delta}$ ($x=0\text{--}0.6$). Physical Review B, 1997, 55, 3186-3191.	1.1	17
372	Deformation-induced planar defects in Al-Cu-Fe quasicrystals. Journal of Materials Research, 1997, 12, 300-303.	1.2	13
373	Deformation Characteristics of Quasicrystalline Al-Cu-Fe Alloys. Journal of Materials Research, 1997, 12, 2043-2047.	1.2	14
374	A generalized solidification model and microstructural verification for the Nd-Fe-B-Ti-C system processed by rapid solidification. Journal of Applied Physics, 1997, 81, 4459-4461.	1.1	22
375	Precipitation from $\text{Gd}_{1-x}\text{Ba}_x\text{Cu}_3\text{O}_{7-\delta}$ superconductor in low oxygen partial pressure. IEEE Transactions on Applied Superconductivity, 1997, 7, 1731-1734.	1.1	8
376	Partial melting during formation of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. Journal of Materials Science Letters, 1997, 16, 988-990.	0.5	2
377	Effect of oxygen partial pressure on the lower solubility limit of $\text{Nd}_{1-x}\text{Ba}_x\text{Cu}_3\text{O}_7$. Physica C: Superconductivity and Its Applications, 1997, 290, 252-264.	0.6	40
378	Time-of-flight neutron scattering study of hydrogen dynamics in icosahedral $\text{Ti}_{45}\text{Zr}_{38}\text{Ni}_{17}\text{H}_{150}$ quasicrystals. Solid State Communications, 1997, 104, 179-182.	0.9	11

#	ARTICLE	IF	CITATIONS
379	Compressive creep behavior of Mo ₅ Si ₃ with the addition of boron. <i>Intermetallics</i> , 1996, 4, 273-281.	1.8	129
380	Transition metal carbide formation in the Nd ₂ Fe ₁₄ B system and potential as alloying additions. <i>Journal of Alloys and Compounds</i> , 1996, 244, 27-39.	2.8	51
381	Phase equilibria in the Pr _{1-x} Ba _x Cu _{1-y} O system under varied oxygen partial pressures. <i>Physica C: Superconductivity and Its Applications</i> , 1996, 259, 43-53.	0.6	37
382	Boron-doped molybdenum silicides. <i>Advanced Materials</i> , 1996, 8, 85-88.	11.1	81
383	Ordering, Incommensuration, and Phase Transitions in Pyrrhotite. <i>Journal of Solid State Chemistry</i> , 1996, 124, 264-271.	1.4	27
384	The effect of carbon on the peritectic melting of Bi ₂ 212 and Bi ₂ 212 + Ag. <i>Physica C: Superconductivity and Its Applications</i> , 1996, 264, 133-136.	0.6	11
385	Effect of P(O ₂) and Ag content on the decomposition pathway of Bi ₂ Sr ₂ CaCu ₂ O _x . <i>Physica C: Superconductivity and Its Applications</i> , 1996, 266, 62-74.	0.6	22
386	Effects of boron on the solidification structure of an Al-Cu-Fe alloy. <i>Journal of Materials Science Letters</i> , 1996, 15, 935.	0.5	17
387	Comparison of superconducting flux pinning due to ion irradiation and fishtail effects. <i>Physical Review B</i> , 1996, 53, 5815-5817.	1.1	15
388	Growth of nucleation sites on Pb-doped Bi ₂ Sr ₂ Ca ₁ Cu ₂ O _{8+δ} . <i>Applied Physics Letters</i> , 1996, 68, 556-558.	1.5	7
389	Comment on "Implications of Abrikosov-Gor'kov exchange scattering for theories of high temperature superconductivity" by Blackstead and Dow. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995, 206, 111-115.	0.9	7
390	Effect of starting powders on the control of microstructural development of Al-Cu-Fe quasi-crystalline plasma-sprayed coatings. <i>Journal of Thermal Spray Technology</i> , 1995, 4, 235-244.	1.6	42
391	Understanding the phase relations and cation disorder in LRE _{1-x} Ba _{2x} Cu ₃ O _{7+δ} . <i>Journal of Electronic Materials</i> , 1995, 24, 1931-1935.	1.0	37
392	Comparison between the magnetic specific heat of NdBa ₂ Cu ₃ O _x and DyBa ₂ Cu ₃ O _x . <i>European Physical Journal B</i> , 1995, 96, 455-464.	0.6	20
393	Reversible magnetization, critical fields, and vortex structure in grain-aligned YBa ₂ Cu ₄ O ₈ . <i>Physical Review B</i> , 1995, 51, 6035-6040.	1.1	37
394	Phase transformations in melt-spun Y-Ba-Cu-O bulk superconductor. <i>IEEE Transactions on Applied Superconductivity</i> , 1995, 5, 1615-1618.	1.1	1
395	Deformation Studies of Quasicrystals. , 1995, , 99-108.		0
396	Disks of YBa ₂ Cu ₃ O ₇ shocked to 10 GPa pressures. <i>AIP Conference Proceedings</i> , 1994, , .	0.3	1

#	ARTICLE	IF	CITATIONS
397	Plastic deformation in icosahedral Al-Pd-Mn alloys. <i>Journal of Materials Research</i> , 1994, 9, 343-347.	1.2	31
398	Effects of oxygen partial pressure on the crystallization of amorphous Bi-Sr-Ca-Cu-O and Bi-Sr-Ca-Cu-O + Ag. <i>Journal of Materials Research</i> , 1994, 9, 1661-1671.	1.2	9
399	Hole filling, charge transfer and superconductivity in Nd _{1+x} Ba _{2-x} Cu ₃ O _{7+δ} . <i>Physica C: Superconductivity and Its Applications</i> , 1994, 219, 145-155.	0.6	177
400	Effects of shock-induced defects and subsequent heat treatment on flux pinning in melt-textured YBa ₂ Cu ₃ O _{7-δ} . <i>Physica C: Superconductivity and Its Applications</i> , 1994, 228, 265-278.	0.6	12
401	Effects of shock-induced defect density on flux pinning in melt-textured YBa ₂ Cu ₃ O _{7-δ} . <i>Journal of Electronic Materials</i> , 1994, 23, 1111-1115.	1.0	3
402	Enhanced superconductivity in Nd _{1+x} Ba _{2-x} Cu ₃ O _{7+δ} by low oxygen partial pressure annealing. <i>Journal of Electronic Materials</i> , 1994, 23, 1117-1120.	1.0	21
403	Magnetic properties of Nd ³⁺ in Nd ₂ BaCu ₂ O ₇ -compounds. <i>European Physical Journal B</i> , 1994, 95, 301-310.	0.6	30
404	Deformation twinning in a face-centred icosahedral Al ₁₃ Cu ₃ Fe quasicrystal. <i>Philosophical Magazine Letters</i> , 1994, 69, 115-121.	0.5	22
405	Preparation of fine powders for electron microscopy investigations. <i>Materials Characterization</i> , 1993, 31, 33-38.	1.9	3
406	Techniques for texturing ceramic superconductors from an amorphous precursor. <i>Journal of Electronic Materials</i> , 1993, 22, 1269-1274.	1.0	4
407	Critical current enhancement in YBa ₂ /Cu ₃ O _{7-δ} / single crystal by 200 MeV proton irradiation. <i>IEEE Transactions on Applied Superconductivity</i> , 1993, 3, 1495-1497.	1.1	2
408	Phase diagram effects in rapid thermal processing of REBa ₂ /Cu ₃ O _{7-δ} /. <i>IEEE Transactions on Applied Superconductivity</i> , 1993, 3, 1147-1149.	1.1	8
409	Recrystallization of amorphous and nanocrystalline NdBa ₂ /Cu ₃ O _{7-x} / and GdBa ₂ /Cu ₃ O _{7-x} /. <i>IEEE Transactions on Applied Superconductivity</i> , 1993, 3, 1150-1153.	1.1	3
410	Superconductivity and flux pinning in Nd _{1+x} /Ba _{2-x} /Cu ₃ O _{7+δ} /. <i>IEEE Transactions on Applied Superconductivity</i> , 1993, 3, 1232-1235.	1.1	9
411	Rapidly textured Bi ₂ Sr ₂ CaCu ₂ O ₈ . <i>Journal of Materials Research</i> , 1993, 8, 1247-1257.	1.2	10
412	Heat capacity data of doped NdBa ₂ Cu ₃ O _x . <i>Journal of Applied Physics</i> , 1993, 73, 6317-6319.	1.1	24
413	Critical current enhancement by neutron irradiation of rapidly textured Bi ₂ /Sr ₂ /CaCu ₂ O ₈ /. <i>IEEE Transactions on Applied Superconductivity</i> , 1993, 3, 1186-1189.	1.1	4
414	Plastic deformation in an Al-Cu-Fe icosahedral alloy. <i>Journal of Materials Research</i> , 1993, 8, 1199-1202.	1.2	25

#	ARTICLE	IF	CITATIONS
415	Oxygen Deficiencies at Defects in YBa ₂ Cu ₃ O _{7-δ} as Determined by High Resolution Parallel Electron Energy Loss. Materials Research Society Symposia Proceedings, 1992, 275, 35.	0.1	0
416	Recrystallization of Amorphous or Nanocrystalline NdBa ₂ Cu ₃ O _{7-x} and GdBa ₂ Cu ₃ O _{7-x} . Materials Research Society Symposia Proceedings, 1992, 275, 335.	0.1	0
417	Characterization of the phase relations and solid solution range of the Bi ₂ Sr ₂ Ca ₁ Cu ₂ O _y superconductor. Physica C: Superconductivity and Its Applications, 1992, 202, 109-120.	0.6	62
418	Time evolved defects in proton-irradiated single-crystal YBa ₂ Cu ₃ O _{7-δ} . Physica C: Superconductivity and Its Applications, 1992, 203, 83-90.	0.6	7
419	Melt-spin processing of YBa ₂ Cu ₃ O _{7-x} . Journal of Materials Research, 1991, 6, 2035-2040.	1.2	12
420	Processing controlled stacking faults in YBa ₂ Cu ₃ O _{7-δ} and their effect on flux pinning. Applied Physics Letters, 1991, 58, 1086-1088.	1.5	24
421	Evaluation of techniques for fabricating very fine grained YBa ₂ /Cu ₃ O _{7-δ} /Ag composites. IEEE Transactions on Magnetics, 1991, 27, 920-922.	1.2	3
422	Structural characteristics of grain boundaries in superconducting Bi ₂ /Sr ₂ /Ca ₁ /Cu ₂ O _x fibers. IEEE Transactions on Magnetics, 1991, 27, 939-941.	1.2	0
423	Determination of the Formation of the 1/6[031] Extrinsic Stacking Faults in Deformed YBa ₂ Cu ₃ O _{7-δ} . Materials Research Society Symposia Proceedings, 1990, 183, 375.	0.1	0
424	Understanding process-induced microstructures in RBa ₂ Cu ₃ O ₇ . Jom, 1990, 42, 26-28.	0.9	1
425	Analysis of deformed YBa ₂ Cu ₃ O _{7-δ} . Journal of Materials Science, 1990, 25, 1978-1986.	1.7	20
426	Deformation induced defects in ReBa ₂ Cu ₃ O _{7-δ} . Physica C: Superconductivity and Its Applications, 1990, 166, 115-124.	0.6	21
427	Estimation of twin wall energy by measurement of twin spacing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1990, 124, L19-L21.	2.6	6
428	Increase in the flux pinning energy of YBa ₂ Cu ₃ O _{7-δ} by shock compaction. Applied Physics Letters, 1990, 56, 2042-2044.	1.5	51
429	Measurement and correlation of optical and TEM twins in Y ₁ /Ba ₂ /Cu ₃ O _{7-δ} . IEEE Transactions on Magnetics, 1989, 25, 2337-2340.	1.2	16
430	GENPLOT: A formula-based Pascal program for data manipulation and plotting. Computers and Geosciences, 1988, 14, 645-657.	2.0	0
431	Crustal deformation, the earthquake cycle, and models of viscoelastic flow in the asthenosphere. Geophysical Journal International, 1984, 78, 735-750.	1.0	34
432	High-Accuracy X-Ray Diffraction Analysis of Phase Evolution Sequence During Devitrification of Cu ₅₀ Zr ₅₀ Metallic Glass. , 0, .		1

#	ARTICLE	IF	CITATIONS
433	On the growth of icosahedral Al-Pd-Mn quasicrystals from the ternary melt. , 0, .		2