

Matthew J Kramer

List of Publications by Year in descending order

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433
papers

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34100

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442
all docs

442
docs citations

442
times ranked

9318
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly optimized embedded-atom-method potentials for fourteen fcc metals. Physical Review B, 2011, 83, .	3.2	422
2	Current progress and future challenges in rare-earth-free permanent magnets. Acta Materialia, 2018, 158, 118-137.	7.9	351
3	Using atomistic computer simulations to analyze x-ray diffraction data from metallic glasses. Journal of Applied Physics, 2007, 102, .	2.5	300
4	Cerium: An Unlikely Replacement of Dysprosium in High Performance Nd-Fe-B Permanent Magnets. Advanced Materials, 2015, 27, 2663-2667.	21.0	283
5	Prospects for Non-Rare Earth Permanent Magnets for Traction Motors and Generators. Jom, 2012, 64, 752-763.	1.9	231
6	Fatigue-resistant high-performance elastocaloric materials made by additive manufacturing. Science, 2019, 366, 1116-1121.	12.6	229
7	Structural heterogeneity and medium-range order in $Zr_{x}Cu_{1-x}$ metallic glasses. Physical Review B, 2009, 80, .	3.2	225
8	On-the-fly machine-learning for high-throughput experiments: search for rare-earth-free permanent magnets. Scientific Reports, 2014, 4, 6367.	3.3	212
9	Hole filling, charge transfer and superconductivity in $Nd_{1+x}Ba_{2-x}Cu_3O_{7+\delta}$. Physica C: Superconductivity and Its Applications, 1994, 219, 145-155.	1.2	177
10	Nanoscale Structure and Structural Relaxation in $Zr_{50}Cu_{50}$ Metallic Glass. Physical Review Letters, 2012, 108, 195505.	7.8	167
11	Boron-doped molybdenum silicides for structural applications. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 261, 16-23.	5.6	160
12	Processing and mechanical properties of a molybdenum silicide with the composition $Mo_{12}Si_{8.5}B$ (at.%). Intermetallics, 2001, 9, 25-31.	3.9	137
13	Architecture and magnetism of alnico. Acta Materialia, 2014, 74, 224-233.	7.9	135
14	Controlled Anisotropic Growth of Co-Fe-P from Co-Fe-O Nanoparticles. Angewandte Chemie - International Edition, 2015, 54, 9642-9645.	13.8	132
15	Compressive creep behavior of Mo_5Si_3 with the addition of boron. Intermetallics, 1996, 4, 273-281.	3.9	129
16	An instrument for <i>in situ</i> time-resolved X-ray imaging and diffraction of laser powder bed fusion additive manufacturing processes. Review of Scientific Instruments, 2018, 89, 055101.	1.3	123
17	Nature of the cubic to rhombohedral structural transformation in $(AgSbTe_2)_{15}(GeTe)_{85}$ thermoelectric material. Journal of Applied Physics, 2007, 101, 053715.	2.5	122
18	Relating Dynamic Properties to Atomic Structure in Metallic Glasses. Jom, 2012, 64, 856-881.	1.9	110

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19	Experimental and <i>ab initio</i> molecular dynamics simulation studies of liquid Al . Physical Review B, 2009, 79, .	3.2	106
20	Analysis of Nanostructuring in High Figure of Merit $\text{Ag}_x\text{Pb}_y\text{SbTe}_{2+z}$ Thermoelectric Materials. Advanced Functional Materials, 2009, 19, 1254-1259.	14.9	106
21	Magnetic properties of bulk, and rapidly solidified nanostructured $(\text{Nd}_{1-x}\text{Ce}_x)_2\text{Fe}_{14-y}\text{Co}_y\text{B}$ ribbons. Acta Materialia, 2016, 103, 211-216.	7.9	104
22	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
23	Exploring the Structural Complexity of Intermetallic Compounds by an Adaptive Genetic Algorithm. Physical Review Letters, 2014, 112, 045502.	7.8	97
24	Fabrication of bulk nanocomposite magnets via severe plastic deformation and warm compaction. Applied Physics Letters, 2010, 96, .	3.3	96
25	Systematic Mapping of Icosahedral Short-Range Order in a Melt-Spun $\text{Zr}_{36}\text{Cu}_{93}$ Glass. Physical Review Letters, 2013, 110, 205505.	7.8	93
26	Microscopic origin of slow dynamics at the good glass forming composition range in $\text{Zr}_{1-x}\text{Cu}_x$ metallic liquids. Journal of Applied Physics, 2010, 107, .	2.5	92
27	Crystalline surface structures induced by ion sputtering of Al-rich icosahedral quasicrystals. Physical Review B, 1998, 58, 9961-9971.	3.2	89
28	Short- and medium-range order in ZrPt liquids. Physical Review B, 2002, 66, 040401.	3.2	89
29	One-Pot Synthesis of Urchin-like $\text{FePd}/\text{Fe}_3\text{O}_4$ and Their Conversion into Exchange-Coupled $\text{L}_{10}\text{FePd}/\text{Fe}$ Nanocomposite Magnets. Nano Letters, 2013, 13, 4975-4979.	9.1	87
30	Effect of composition and heat treatment on MnBi magnetic materials. Acta Materialia, 2014, 79, 374-381.	7.9	83
31	Boron-doped molybdenum silicides. Advanced Materials, 1996, 8, 85-88. Stabilization of an ambient-pressure collapsed tetragonal phase in CaFeAs .	21.0	81
32	Synthesis of $\text{Cu}_2\text{Ti}_{34}\text{Zr}_{11}\text{Ni}_8$ Bulk Metallic Glass by Warm Extrusion of Gas Atomized Powders. Journal of Materials Research, 2002, 17, 186-198.	3.2	81
33	Medium-range structure and glass forming ability in ZrCuAl bulk metallic glasses. Acta Materialia, 2016, 109, 103-114.	7.9	76
34	Rapid Chemical and Topological ordering in supercooled liquid $\text{Cu}_{46}\text{Zr}_{54}$.	3.2	75
35	Applications of an extended Miedema's model for ternary alloys. Journal of Alloys and Compounds, 2010, 489, 357-361.	5.5	72

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37	Spatially Resolved Distribution Function and the Medium-Range Order in Metallic Liquid and Glass. Scientific Reports, 2011, 1, 194.	3.3	69
38	Thermal stability of MnBi magnetic materials. Journal of Physics Condensed Matter, 2014, 26, 064212.	1.8	68
39	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
40	Microstructure and oxidation behavior of Nb-Mo-Si-B alloys. Intermetallics, 2006, 14, 24-32.	3.9	64
41	Computer simulation and experimental study of elastic properties of amorphous Cu-Zr alloys. Journal of Applied Physics, 2007, 102, .	2.5	64
42	Atomic-scale Chemical Imaging and Quantification of Metallic Alloy Structures by Energy-Dispersive X-ray Spectroscopy. Scientific Reports, 2014, 4, 3945.	3.3	64
43	Subsurface Cooling Rates and Microstructural Response during Laser Based Metal Additive Manufacturing. Scientific Reports, 2020, 10, 1981.	3.3	64
44	Chemical synthesis of hard magnetic SmCo nanoparticles. Journal of Materials Chemistry, 2011, 21, 16873.	6.7	63
45	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.	5.5	63
46	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.	1.2	62
47	Characterization and oxidation behavior of silicide coating on multiphase Mo-Si-B alloy. Intermetallics, 2008, 16, 1125-1133.	3.9	60
48	Reactive gas atomization processing for Fe-based ODS alloys. Journal of Nuclear Materials, 2012, 428, 65-75.	2.7	60
49	A study on the role of Nb in melt-spun nanocrystalline Nd-Fe-B magnets. Journal of Magnetism and Magnetic Materials, 2004, 268, 105-113.	2.3	58
50	Theoretical calculations and experimental measurements of the structure of Ti ₅ Si ₃ with interstitial additions. Intermetallics, 2000, 8, 937-943.	3.9	57
51	Innovative applications of genetic algorithms to problems in accelerator physics. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	56
52	Rapid solidification and metallic glass formation - Experimental and theoretical limits. Journal of Non-Crystalline Solids, 2007, 353, 3633-3639.	3.1	55
53	Atomic size and chemical effects on the local order of $Zr_{3.2}$	3.2	55
54	Structural aspects of the fivefold quasicrystalline Al-Cu-Fe surface from STM and dynamical LEED studies. Surface Science, 2001, 495, 19-34.	1.9	54

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55	Structure of molten Al-Si alloys. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 3005-3010.	3.1	54
56	Achieving Large Uniform Tensile Ductility in Nanocrystalline Metals. <i>Physical Review Letters</i> , 2010, 105, 215502.	7.8	54
57	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.	1.8	52
58	Crystal Genes™ in Metallic Liquids and Glasses. <i>Scientific Reports</i> , 2016, 6, 23734.	3.3	52
59	Atomically Intimate Contact between Solid Electrolytes and Electrodes for Li Batteries. <i>Matter</i> , 2019, 1, 1001-1016.	10.0	52
60	Increase in the flux-pinning energy of YBa ₂ Cu ₃ O _{7-x} by shock compaction. <i>Applied Physics Letters</i> , 1990, 56, 2042-2044.	3.3	51
61	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.	5.5	51
62	New high temperature furnace for structure refinement by powder diffraction in controlled atmospheres using synchrotron radiation. <i>Review of Scientific Instruments</i> , 1999, 70, 3554-3561.	1.3	51
63	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.	5.6	51
64	Effects of sub-T _g annealing on Cu ₆₄ Zr _{35.5} glasses: A molecular dynamics study. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	51
65	Microstructural and magnetic property evolution with different heat-treatment conditions in an alnico alloy. <i>Acta Materialia</i> , 2017, 133, 73-80.	7.9	51
66	Optimization of strength and ductility in nanotwinned ultra-fine grained Ag: Twin density and grain orientations. <i>Acta Materialia</i> , 2015, 96, 378-389.	7.9	50
67	Uncompensated Polarization in Incommensurate Modulations of Perovskite Antiferroelectrics. <i>Physical Review Letters</i> , 2019, 123, 217602.	7.8	50
68	Self-nanoscaling of the soft magnetic phase in bulk SmCo/Fe nanocomposite magnets. <i>Journal of Materials Science</i> , 2011, 46, 6065-6074.	3.7	49
69	Anisotropic magnetocaloric response in AlFe ₂ B ₂ . <i>Journal of Alloys and Compounds</i> , 2018, 745, 505-512.	5.5	49
70	The thermal, magnetic, and structural characterization of the crystallization kinetics of Fe ₈₈ Zr ₇ B ₄ Cu ₁ , an amorphous soft magnetic ribbon. <i>IEEE Transactions on Magnetics</i> , 2002, 38, 3039-3044.	2.1	48
71	Self-nanoscaling in FeCo alloys prepared via severe plastic deformation. <i>Journal of Alloys and Compounds</i> , 2012, 521, 55-59.	5.5	48
72	Processing of MnBi bulk magnets with enhanced energy product. <i>AIP Advances</i> , 2016, 6, .	1.3	48

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73	rates dependence of medium-range order development in C_u	3.2	47
74	Origins of coercivity in the amorphous alloy Nd-Fe-Al. IEEE Transactions on Magnetics, 2001, 37, 2497-2499.	2.1	46
75	Nearest-neighbor coordination and chemical ordering in multicomponent bulk metallic glasses. Applied Physics Letters, 2007, 90, 211908.	3.3	46
76	Local chemical and topological order in $Al_{60}Tb_{40}$ and its role in controlling nanocrystal formation. Acta Materialia, 2012, 60, 994-1003.	7.9	46
77	Oxygen-stabilized glass formation in $Zr_{80}Pt_{20}$ melt-spun ribbons. Applied Physics Letters, 2003, 83, 69-71.	3.3	45
78	Laser-Induced Keyhole Defect Dynamics during Metal Additive Manufacturing. Advanced Engineering Materials, 2019, 21, 1900455.	3.5	45
79	Toward Phase and Catalysis Control: Tracking the Formation of Intermetallic Nanoparticles at Atomic Scale. Chem, 2019, 5, 1235-1247.	11.7	45
80	Suppression of superconductivity in the $R(Ba_{1-x}R_z)2Cu3O7+\delta$ ($R=Pr,Nd$) system. Physical Review B, 1997, 56, 5512-5517.	3.2	44
81	Short- and medium-range order in a Zr Experimental and simulation studies. Physical Review B, 2008, 78, .	3.1	43
82	Stripe-like nanoscale structural phase separation in superconducting $BaPb_{1-x}Bi_xO_3$. Nature Communications, 2015, 6, 8231.	12.8	44
83	On the growth of icosahedral $Al_{60}Pd_{40}Mn$ 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
84	High thermal stability of carbon-coated $LiO-FePt$ nanoparticles prepared by salt-matrix annealing. Journal of Applied Physics, 2008, 103, .	2.5	43
85	Effect of starting powders on the control of microstructural development of Al-Cu-Fe quasi-crystalline plasma-sprayed coatings. Journal of Thermal Spray Technology, 1995, 4, 235-244.	3.1	42
86	A common pumiliotoxin from poison frogs exhibits enantioselective toxicity against mosquitoes. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 17818-17821.	7.1	41
87	In-situ elevated-temperature TEM study of $(AgSbTe_2)_{15}(GeTe)_{85}$. Journal of Materials Science, 2007, 42, 7643-7646.	3.7	41
88	Electronic structure and magnetic properties in AlB_2 (T_j ETQq0 0.2gBT /Overlock 10 T	3.2	41
89	Effect of oxygen partial pressure on the lower solubility limit of $Nd_{1+x}Ba_{2-x}Cu_3O_7$. Physica C: Superconductivity and Its Applications, 1997, 290, 252-264.	1.2	40
90	Local structure in marginal glass forming $Al_{60}Sm$ alloy. Intermetallics, 2010, 18, 1676-1682.	3.9	40

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91	<i>In situ</i> Growth of SiC Whisker in Pyrolyzed Monolithic Mixture of AHPCS and SiC. Journal of the American Ceramic Society, 2000, 83, 2961-2966.	3.8	39
92	Combinatorial exploration of rare-earth-free permanent magnets: Magnetic and microstructural properties of Fe-Co-W thin films. Applied Physics Letters, 2013, 102, .	3.3	39
93	Development of a deep machine learning interatomic potential for metalloid-containing Pd-Si compounds. Physical Review B, 2019, 100, .	3.2	39
94	Thermal Expansion of Ti_5Si_3 with Ge, B, C, N, or O Additions. Journal of Materials Research, 2000, 15, 1780-1785.	2.6	38
95	A LEED comparison of structural stabilities of the three high-symmetry surfaces of Al-Pd-Mn bulk quasicrystals. Surface Science, 2000, 450, 1-11.	1.9	38
96	Short- and medium-range order in amorphous $Zr_{20}Mn_{80}$ alloy. Physical Review B, 2010, 81, .	3.2	38
97	Oxidation mechanism of W substituted Mo-Si-B alloys. Intermetallics, 2017, 87, 38-44.	3.9	38
98	Understanding the phase relations and cation disorder in $LRE_{1-x}Ba_2xCu_3O_{7-\delta}$. Journal of Electronic Materials, 1995, 24, 1931-1935.	2.2	37
99	Reversible magnetization, critical fields, and vortex structure in grain-aligned $YBa_2Cu_4O_8$. Physical Review B, 1995, 51, 6035-6040.	3.2	37
100	Phase equilibria in the Pr-Ba-Cu-O system under varied oxygen partial pressures. Physica C: Superconductivity and Its Applications, 1996, 259, 43-53.	1.2	37
101	Solidification, microstructural refinement and magnetism in $Nd_2Fe_{14}B$. Journal of Magnetism and Magnetic Materials, 2002, 241, 144-155.	2.3	37
102	Size-Induced Chemical and Magnetic Ordering in Individual $Fe_{10}Au$ Nanoparticles. ACS Nano, 2014, 8, 8113-8120.	14.6	36
103	Enhanced room-temperature magnetocaloric effect and tunable magnetic response in Ga- and Ge-substituted $AlFe_2B_2$. Journal of Alloys and Compounds, 2019, 777, 1030-1038.	5.5	36
104	Magnetic aspects of the ferromagnetic bulk metallic glass alloy system $Nd_{1-x}Fe_xAl$. Journal of Magnetism and Magnetic Materials, 2006, 299, 265-280.	2.3	35
105	Structural phase transition and ferromagnetism in monodisperse 3 nm FePt particles. Journal of Applied Physics, 2007, 102, .	2.5	35
106	Microstructure analysis of a SmCo/Fe exchange spring bilayer. Applied Physics Letters, 2008, 93, .	3.3	35
107	Experimental and <i>ab initio</i> structural studies of liquid $Zr_{20}Mn_{80}$. Physical Review B, 2009, 79, .	3.2	35
108	Microstructure and intergranular diffusion in exchange-coupled $Sm_{1-x}Co_x/Fe$ nanocomposites. Applied Physics Letters, 2010, 97, 032506.	3.3	35

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109	Crustal deformation, the earthquake cycle, and models of viscoelastic flow in the asthenosphere. <i>Geophysical Journal International</i> , 1984, 78, 735-750.	2.4	34
110	Solubility of boron in $\text{Mo}_{5+y}\text{Si}_3\text{B}_y$. <i>Intermetallics</i> , 2000, 8, 143-150.	3.9	34
111	Phase and Elemental Distributions in Alnico Magnetic Materials. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 3314-3317.	2.1	33
112	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.	5.5	33
113	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.	7.9	32
114	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.	2.2	32
115	Development of MnBi permanent magnet: Neutron diffraction of MnBi powder. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	32
116	Formation of multilayered scale during the oxidation of NiAl-Mo alloy. <i>Applied Surface Science</i> , 2014, 301, 107-111.	6.1	32
117	Plastic deformation in icosahedral Al-Pd-Mn alloys. <i>Journal of Materials Research</i> , 1994, 9, 343-347.	2.6	31
118	Initial crystallization in a nanostructured Al-Sm rare earth alloy. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 1416-1424.	3.1	31
119	Vacancy-mediated complex phase selection in high entropy alloys. <i>Acta Materialia</i> , 2020, 194, 540-546.	7.9	31
120	Magnetic properties of Nd ³⁺ in Nd ₂ BaCu ₂ O ₇ -compounds. <i>European Physical Journal B</i> , 1994, 95, 301-310.	1.5	30
121	Effects of Interstitial Additions on the Structure of Ti ₅ Si ₃ . <i>Journal of Materials Research</i> , 2000, 15, 1773-1779.	2.6	30
122	Generation of high-density skyrmions by electric current. <i>Npj Quantum Materials</i> , 2017, 2, .	5.2	30
123	Effects of Solidification Cooling Rates on Microstructures and Physical Properties of Fe-6.5%Si Alloys. <i>Acta Materialia</i> , 2021, 205, 116575.	7.9	30
124	Magnetic properties of single crystalline itinerant ferromagnet AlFe_2B . <i>Physical Review Materials</i> , 2018, 2, .	2.4	30
125	Diffusion of Cu in AlCu alloys of different composition by quasielastic neutron scattering. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 3295-3299.	3.1	29
126	Structural and dynamical properties of liquid $\text{Cu}_3\text{Si}_2\text{B}$ alloy studied experimentally and by ab initio calculations. <i>Physical Review B</i> , 2011, 84, .	2.9	29

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127	Correlative Energy-Dispersive X-Ray Spectroscopic Tomography and Atom Probe Tomography of the Phase Separation in an Alnico 8 Alloy. <i>Microscopy and Microanalysis</i> , 2016, 22, 1251-1260.	0.4	29
128	Studies on in situ magnetic alignment of bonded anisotropic Nd-Fe-B alloy powders. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 422, 168-173.	2.3	29
129	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.	3.1	28
130	High temperature magnetic properties of SmCo ₅ /Î±-Fe(Co) bulk nanocomposite magnets. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	28
131	Effect of selective Co addition on magnetic properties of Nd ₂ (FeCo) ₁₄ B/Î±-Fe nanocomposite magnets. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 045001.	2.8	28
132	Diffusion in a Cu-Zr metallic glass studied by microsecond-scale molecular dynamics simulations. <i>Physical Review B</i> , 2015, 91, .	3.2	28
133	A high-throughput investigation of Fe-Cr-Al as a novel high-temperature coating for nuclear cladding materials. <i>Nanotechnology</i> , 2015, 26, 274003.	2.6	28
134	Development of interatomic potential for Al-Tb alloys using a deep neural network learning method. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 18467-18479.	2.8	28
135	Ordering, Incommensuration, and Phase Transitions in Pyrrhotite. <i>Journal of Solid State Chemistry</i> , 1996, 124, 264-271.	2.9	27
136	Solubility limits of LRE _{1-x} Ba _{2x} Cu ₃ O _{7-Î±} . <i>Applied Superconductivity</i> , 1998, 6, 87-107.	0.5	27
137	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.	5.0	27
138	Simulation of alnico coercivity. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	27
139	Mechanism for flux pinning in NdBa ₂ Cu ₃ O _{7-Î±} melt-textured in low oxygen partial pressure. <i>Applied Physics Letters</i> , 1997, 71, 3572-3574.	3.3	26
140	Crystal structure of the hexagonal Zn ₃ MgY phase. <i>Journal of Alloys and Compounds</i> , 2004, 373, 156-160.	5.5	26
141	Influence of oxygen content in phase selection during quenching of Zr ₈₀ Pt ₂₀ melt spun ribbons. <i>Intermetallics</i> , 2004, 12, 1211-1217.	3.9	26
142	Correlation between microstructure and first-order magnetization reversal in the SmCo ₅ /Î±-Fe nanocomposite magnets. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 1329-1332.	2.1	26
143	Effect of pressure loading rate on the crystallographic texture of NdFeB nanocrystalline magnets. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	26
144	Exchange-coupled nanoscale SmCo/NdFeB hybrid magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 2836-2839.	2.3	26

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145	Local structure order in Pd ₇₈ Cu ₆ Si ₁₆ liquid. <i>Scientific Reports</i> , 2015, 5, 8277.	3.3	26
146	Crystallization Kinetics and Phase Transformation Mechanisms in Cu ₅₆ Zr ₄₄ Glassy Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 3356-3364.	2.2	26
147	The Different Roles of Entropy and Solubility in High Entropy Alloy Stability. <i>ACS Combinatorial Science</i> , 2016, 18, 596-603.	3.8	26
148	Plastic deformation in an Al-Cu-Fe icosahedral alloy. <i>Journal of Materials Research</i> , 1993, 8, 1199-1202.	2.6	25
149	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.	2.3	25
150	Bulk SmCo ₅ /Fe nanocomposite permanent magnets fabricated by mould-free Joule-heating compaction. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	25
151	Near net shape fabrication of anisotropic Fe-6.5%Si soft magnetic materials. <i>Acta Materialia</i> , 2020, 201, 209-216.	7.9	25
152	Processing controlled stacking faults in YBa ₂ Cu ₃ O _{7-δ} and their effect on flux pinning. <i>Applied Physics Letters</i> , 1991, 58, 1086-1088.	3.3	24
153	Heat capacity data of doped NdBa ₂ Cu ₃ O _x . <i>Journal of Applied Physics</i> , 1993, 73, 6317-6319.	2.5	24
154	Extrinsic origin of the insulating behavior of polygrain icosahedral Al-Pd-Quasicrystals. <i>Physical Review B</i> , 2006, 74, .	3.2	24
155	Bulk FePt-Fe ₃ Pt nanocomposite magnets prepared by spark plasma sintering. <i>Journal of Applied Physics</i> , 2007, 101, 09K515.	2.5	24
156	Deformation behavior of an amorphous Cu _{64.5} Zr _{35.5} alloy: A combined computer simulation and experimental study. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	24
157	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.	2.0	24
158	Advances in Characterization of Non-Rare-Earth Permanent Magnets: Exploring Commercial Alnico Grades 5 and 9. <i>Jom</i> , 2013, 65, 862-869.	1.9	24
159	Composition-dependent stability of the medium-range order responsible for metallic glass formation. <i>Acta Materialia</i> , 2014, 81, 337-344.	7.9	24
160	On spinodal decomposition in alnico - A transmission electron microscopy and atom probe tomography study. <i>Acta Materialia</i> , 2018, 153, 15-22.	7.9	24
161	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.	6.1	24
162	Effects of Al content and annealing on the phases formation, lattice parameters, and magnetization of	2.4	24

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