

Matthew J Kramer

List of Publications by Year in descending order

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433
papers

12,576
citations

39113
52
h-index

54771
88
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442
all docs

442
docs citations

442
times ranked

10490
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly optimized embedded-atom-method potentials for fourteen fcc metals. <i>Physical Review B</i> , 2011, 83, .	1.1	422
2	Current progress and future challenges in rare-earth-free permanent magnets. <i>Acta Materialia</i> , 2018, 158, 118-137.	3.8	351
3	Using atomistic computer simulations to analyze x-ray diffraction data from metallic glasses. <i>Journal of Applied Physics</i> , 2007, 102, .	1.1	300
4	Cerium: An Unlikely Replacement of Dysprosium in High Performance Nd–Fe–B Permanent Magnets. <i>Advanced Materials</i> , 2015, 27, 2663-2667.	11.1	283
5	Prospects for Non-Rare Earth Permanent Magnets for Traction Motors and Generators. <i>Jom</i> , 2012, 64, 752-763.	0.9	231
6	Fatigue-resistant high-performance elastocaloric materials made by additive manufacturing. <i>Science</i> , 2019, 366, 1116-1121.	6.0	229
7	Structural heterogeneity and medium-range order in $\text{Zr}_{50}(\text{Cu}_{29}\text{Fe}_{167})_{15}$ glasses. <i>Physical Review B</i> , 2009, 80, .	1.1	225
8	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
9	Hole filling, charge transfer and superconductivity in $\text{Nd}_{1+x}\text{Ba}_{2-x}\text{Cu}_3\text{O}_7+\delta$. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 219, 145-155.	0.6	177
10	Nanoscale Structure and Structural Relaxation in $\text{Zr}_{50}(\text{Cu}_{29}\text{Fe}_{167})_{15}$ Metallic Glass. <i>Physical Review Letters</i> , 2012, 108, 195505.	2.9	167
11	Boron-doped molybdenum silicides for structural applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999, 261, 16-23.	2.6	160
12	Processing and mechanical properties of a molybdenum silicide with the composition Mo–12Si–8.5B (at.%). <i>Intermetallics</i> , 2001, 9, 25-31.	1.8	137
13	Architecture and magnetism of alnico. <i>Acta Materialia</i> , 2014, 74, 224-233.	3.8	135
14	Controlled Anisotropic Growth of Co–Fe–P from Co–Fe–O Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9642-9645.	7.2	132
15	Compressive creep behavior of Mo ₅ Si ₃ with the addition of boron. <i>Intermetallics</i> , 1996, 4, 273-281.	1.8	129
16	An instrument for <i>in situ</i> 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
17	Nature of the cubic to rhombohedral structural transformation in $(\text{AgSbTe}_2)_{15}(\text{GeTe})_{85}$ thermoelectric material. <i>Journal of Applied Physics</i> , 2007, 101, 053715.	1.1	122
18	Relating Dynamic Properties to Atomic Structure in Metallic Glasses. <i>Jom</i> , 2012, 64, 856-881.	0.9	110

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19	Experimental and <i>ab initio</i> molecular dynamics simulation studies of liquid $\text{Al}_{1-x}\text{Mn}_x$. <i>Physical Review B</i> , 2009, 79, .	1.1	106
20	Analysis of Nanostructuring in High Figure-of-Merit $\text{Ag}_{1-x}\text{Pb}_x\text{SbTe}_{2+m}$ Thermoelectric Materials. <i>Advanced Functional Materials</i> , 2009, 19, 1254-1259.	7.8	106
21	Magnetic properties of bulk, and rapidly solidified nanostructured $(\text{Nd}_{1-x}\text{Ce}_x)\text{Fe}_{14-y}\text{Co}_y\text{B}$ ribbons. <i>Acta Materialia</i> , 2016, 103, 211-216.	3.8	104
22	Growth of large-grain R-Mg-Zn quasicrystals from the ternary melt (R = Y, Er, Ho, Dy and Tb). <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1998, 77, 1601-1615.	0.6	100
23	Exploring the Structural Complexity of Intermetallic Compounds by an Adaptive Genetic Algorithm. <i>Physical Review Letters</i> , 2014, 112, 045502.	2.9	97
24	Fabrication of bulk nanocomposite magnets via severe plastic deformation and warm compaction. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	96
25	Systematic Mapping of Icosahedral Short-Range Order in a Melt-Spun $\text{Zr}_{1-x}\text{Cu}_x$ Glass. <i>Physical Review Letters</i> , 2013, 110, 205505.	2.9	93
26	Microscopic origin of slow dynamics at the good glass forming composition range in $\text{Zr}_{1-x}\text{Cu}_x$ metallic liquids. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	92
27	Crystalline surface structures induced by ion sputtering of Al-rich icosahedral quasicrystals. <i>Physical Review B</i> , 1998, 58, 9961-9971.	1.1	89
28	Short- and medium-range order in $\text{Zr}_{1-x}\text{Cu}_x$ metallic liquids. <i>Physical Review B</i> , 1998, 58, 9961-9971.	1.1	89
29	One-Pot Synthesis of Urchin-like $\text{FePd}_{1-x}\text{Fe}_3\text{O}_4$ and Their Conversion into Exchange-Coupled $\text{L10}_{1-x}\text{FePd}_{x}\text{Fe}$ Nanocomposite Magnets. <i>Nano Letters</i> , 2013, 13, 4975-4979.	4.5	87
30	Effect of composition and heat treatment on MnBi magnetic materials. <i>Acta Materialia</i> , 2014, 79, 374-381.	3.8	83
31	Boron-doped molybdenum silicides. <i>Advanced Materials</i> , 1996, 8, 85-88.	11.1	81
32	Stabilization of an ambient-pressure collapsed tetragonal phase in $\text{CaFe}_{1-x}\text{Mn}_x$. <i>Physical Review B</i> , 1998, 58, 9961-9971.	1.1	81
33	Synthesis of $\text{Cu}_{47}\text{Ti}_{34}\text{Zr}_{11}$ Bulk Metallic Glass by Warm Extrusion of Gas Atomized Powders. <i>Journal of Materials Research</i> , 2002, 17, 186-198.	1.2	79
34	Medium-range structure and glass forming ability in $\text{Zr}_{1-x}\text{Cu}_x\text{Al}$ bulk metallic glasses. <i>Acta Materialia</i> , 2016, 109, 103-114.	3.8	76
35	Rapid chemical and topological ordering in supercooled liquid Cu. <i>Physical Review Letters</i> , 1998, 81, 109-112.	1.1	75
36	Applications of an extended Miedema's model for ternary alloys. <i>Journal of Alloys and Compounds</i> , 2010, 489, 357-361.	2.8	72

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37	Spatially Resolved Distribution Function and the Medium-Range Order in Metallic Liquid and Glass. <i>Scientific Reports</i> , 2011, 1, 194.	1.6	69
38	Thermal stability of MnBi magnetic materials. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 064212.	0.7	68
39	On the growth of decagonal Al-Ni-Co quasicrystals from the ternary melt. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1999, 79, 425-434.	0.6	67
40	Microstructure and oxidation behavior of Nbâ€“Moâ€“Siâ€“B alloys. <i>Intermetallics</i> , 2006, 14, 24-32.	1.8	64
41	Computer simulation and experimental study of elastic properties of amorphous Cu-Zr alloys. <i>Journal of Applied Physics</i> , 2007, 102, .	1.1	64
42	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
43	Subsurface Cooling Rates and Microstructural Response during Laser Based Metal Additive Manufacturing. <i>Scientific Reports</i> , 2020, 10, 1981.	1.6	64
44	Chemical synthesis of hard magnetic SmCo nanoparticles. <i>Journal of Materials Chemistry</i> , 2011, 21, 16873.	6.7	63
45	Superheat-dependent microstructure of molten Alâ€“Si alloys of different compositions studied by small angle neutron scattering. <i>Journal of Alloys and Compounds</i> , 2013, 550, 9-22.	2.8	63
46	Characterization of the phase relations and solid solution range of the Bi ₂ Sr ₂ Ca ₁ Cu ₂ O _y superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 1992, 202, 109-120.	0.6	62
47	Characterization and oxidation behavior of silicide coating on multiphase Moâ€“Siâ€“B alloy. <i>Intermetallics</i> , 2008, 16, 1125-1133.	1.8	60
48	Reactive gas atomization processing for Fe-based ODS alloys. <i>Journal of Nuclear Materials</i> , 2012, 428, 65-75.	1.3	60
49	A study on the role of Nb in melt-spun nanocrystalline Ndâ€“Feâ€“B magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 268, 105-113.	1.0	58
50	Theoretical calculations and experimental measurements of the structure of Ti ₅ Si ₃ with interstitial additions. <i>Intermetallics</i> , 2000, 8, 937-943.	1.8	57
51	Innovative applications of genetic algorithms to problems in accelerator physics. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2013, 16, .	1.8	56
52	Rapid solidification and metallic glass formation â€“ Experimental and theoretical limits. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 3633-3639.	1.5	55
53	Atomic size and chemical effects on the local order of $\text{Al}_{1.1}\text{Fe}_{0.55}$. xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block"> $\text{Zr} \in \text{mml:mtext}$	1.1	55
54	Structural aspects of the fivefold quasicrystalline Alâ€“Cuâ€“Fe surface from STM and dynamical LEED studies. <i>Surface Science</i> , 2001, 495, 19-34.	0.8	54

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55	Structure of molten Al-Si alloys. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 3005-3010.	1.5	54
56	Achieving Large Uniform Tensile Ductility in Nanocrystalline Metals. <i>Physical Review Letters</i> , 2010, 105, 215502.	2.9	54
57	Anointing Chemicals and Hematophagous Arthropods: Responses by Ticks and Mosquitoes to Citrus (<i>Rutaceae</i>) Peel Exudates and Monoterpene Components. <i>Journal of Chemical Ecology</i> , 2011, 37, 348-359.	0.9	52
58	â€˜Crystal Genesâ€™ in Metallic Liquids and Glasses. <i>Scientific Reports</i> , 2016, 6, 23734.	1.6	52
59	Atomically Intimate Contact between Solid Electrolytes and Electrodes for Li Batteries. <i>Matter</i> , 2019, 1, 1001-1016.	5.0	52
60	Increase in the fluxâ€¢pinning energy of YBa ₂ Cu ₃ O ₇ by shock compaction. <i>Applied Physics Letters</i> , 1990, 56, 2042-2044.	1.5	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.	2.8	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.	0.6	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.	2.6	51
64	Effects of sub- <i>T_g</i> annealing on Cu _{64.5} Zr _{35.5} glasses: A molecular dynamics study. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	51
65	Microstructural and magnetic property evolution with different heat-treatment conditions in an alnico alloy. <i>Acta Materialia</i> , 2017, 133, 73-80.	3.8	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.	3.8	50
67	Uncompensated Polarization in Incommensurate Modulations of Perovskite Antiferroelectrics. <i>Physical Review Letters</i> , 2019, 123, 217602.	2.9	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.	1.7	49
69	Anisotropic magnetocaloric response in AlFe ₂ B ₂ . <i>Journal of Alloys and Compounds</i> , 2018, 745, 505-512.	2.8	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.	1.2	48
71	Self-nanoscaling in FeCo alloys prepared via severe plastic deformation. <i>Journal of Alloys and Compounds</i> , 2012, 521, 55-59.	2.8	48
72	Processing of MnBi bulk magnets with enhanced energy product. <i>AIP Advances</i> , 2016, 6, .	0.6	48

#	ARTICLE rates dependence of medium-range order development in $\langle\text{mml:math}\text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"}\rangle\langle\text{mml:mrow}\rangle\langle\text{mml:mi}\text{ mathvariant="normal"}\rangle\text{C}\langle/\text{mml:mi}\rangle\langle\text{mml:msub}\rangle\langle\text{mml:mi}\text{ mathvariant="normal"}\rangle\text{u}\langle/\text{mml:mi}\rangle\langle\text{mml:mrow}\rangle\langle\text{mml:mn}\text{ mathvariant="bold"}\rangle\text{64}\langle/\text{mml:mn}\rangle\langle\text{mml:mo}\rangle\langle/\text{mml:mo}\rangle\langle\text{mml:mn}\text{ mathvariant="bold"}\rangle\text{5}\langle/\text{mml:mn}\rangle\langle\text{mml:mrow}\rangle\langle\text{mml:msub}\rangle\langle\text{mml:mi}\text{ mathvariant="normal"}\rangle\text{z}\langle/\text{mml:mi}\rangle\langle\text{mml:math}\rangle$	IF	CITATIONS
73	Origins of coercivity in the amorphous alloy Nd-Fe-Al. IEEE Transactions on Magnetics, 2001, 37, 2497-2499.	1.1	47
74	Nearest-neighbor coordination and chemical ordering in multicomponent bulk metallic glasses. Applied Physics Letters, 2007, 90, 211908.	1.2	46
75	Local chemical and topological order in Al-Tb and its role in controlling nanocrystal formation. Acta Materialia, 2012, 60, 994-1003.	3.8	46
76	Oxygen-stabilized glass formation in Zr80Pt20 melt-spun ribbons. Applied Physics Letters, 2003, 83, 69-71.	1.5	45
77	Laser-induced Keyhole Defect Dynamics during Metal Additive Manufacturing. Advanced Engineering Materials, 2019, 21, 1900455.	1.6	45
78	Toward Phase and Catalysis Control: Tracking the Formation of Intermetallic Nanoparticles at Atomic Scale. CheM, 2019, 5, 1235-1247.	5.8	45
79	Suppression of superconductivity in the R(Ba _{1-x} Rz) ₂ Cu ₃ O ₇ system. Physical Review B, 1997, 56, 5512-5517.	1.1	44
80	Short- and medium-range order in $\langle\text{mml:math}\text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"}\rangle\langle\text{mml:mrow}\rangle\langle\text{mml:msub}\rangle\langle\text{mml:mrow}\rangle\langle\text{mml:mi}\text{ display="block"}\rangle\text{Zr}\langle/\text{mml:mi}\rangle\langle\text{mml:mrow}\rangle\langle\text{mml:mn}\text{ value="43"}\rangle\langle\text{mml:math}\rangle$. Experimental and simulation studies. Physical Review B, 2008, 78, .	1.1	44
81	Stripe-like nanoscale structural phase separation in superconducting BaPb _{1-x} BixO ₃ . Nature Communications, 2015, 6, 8231.	5.8	44
82	On the growth of icosahedral 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
83	High thermal stability of carbon-coated L10-FePt nanoparticles prepared by salt-matrix annealing. Journal of Applied Physics, 2008, 103, .	1.1	43
84	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.	1.6	42
85	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.	3.3	41
86	In-situ elevated-temperature TEM study of (AgSbTe ₂) ₁₅ (GeTe) ₈₅ . Journal of Materials Science, 2007, 42, 7643-7646.	1.7	41
87	Electronic structure and magnetic properties in $\langle\text{mml:math}\text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"}\rangle\langle\text{mml:msub}\rangle\langle\text{mml:mi}\text{ display="block"}\rangle\text{T}\langle/\text{mml:mi}\rangle\langle\text{mml:mn}\text{ value="2"}\rangle\langle\text{mml:msub}\rangle\langle\text{mml:mi}\text{ display="block"}\rangle\text{AlB}\langle/\text{mml:mi}\rangle\langle\text{mml:mn}\text{ value="2"}\rangle\langle\text{mml:msub}\rangle\langle\text{mml:math}\rangle(\langle\text{mml:math}\rangle\text{Tj ETQq0 O}\langle\text{mml:math}\rangle\text{rgBT}\langle\text{mml:math}\rangle\text{Overlock 101}$	0.6	40
88	Effect of oxygen partial pressure on the lower solubility limit of Nd _{1+x} Ba _{2-x} Cu ₃ O ₇ . Physica C: Superconductivity and Its Applications, 1997, 290, 252-264.	1.8	40
89	Local structure in marginal glass forming Al-Sm alloy. Intermetallics, 2010, 18, 1676-1682.	0.6	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.	1.9	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, .	1.5	39
93	Development of a deep machine learning interatomic potential for metalloid-containing Pd-Si compounds. Physical Review B, 2019, 100, .	1.1	39
94	Thermal Expansion of Ti ₅ Si ₃ with Ge, B, C, N, or O Additions. Journal of Materials Research, 2000, 15, 1780-1785.	1.2	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.	0.8	38
96	Short- and medium-range order in amorphous $\text{Zr}_{11}\text{Mn}_{38}$ alloy. Physical Review B, 2010, 81, .		
97	Oxidation mechanism of W substituted Mo-Si-B alloys. Intermetallics, 2017, 87, 38-44.	1.8	38
98	Understanding the phase relations and cation disorder in LRE _{1+x} Ba _{2-x} Cu ₃ O _{7+δ} . Journal of Electronic Materials, 1995, 24, 1931-1935.	1.0	37
99	Reversible magnetization, critical fields, and vortex structure in grain-aligned YBa ₂ Cu ₄ O ₈ . Physical Review B, 1995, 51, 6035-6040.	1.1	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.	0.6	37
101	Solidification, microstructural refinement and magnetism in Nd ₂ Fe ₁₄ B. Journal of Magnetism and Magnetic Materials, 2002, 241, 144-155.	1.0	37
102	Size-Induced Chemical and Magnetic Ordering in Individual Fe-Au Nanoparticles. ACS Nano, 2014, 8, 8113-8120.	7.3	36
103	Enhanced room-temperature magnetocaloric effect and tunable magnetic response in Ga-and Ge-substituted AlFe ₂ B ₂ . Journal of Alloys and Compounds, 2019, 777, 1030-1038.	2.8	36
104	Magnetic aspects of the ferromagnetic bulk metallic glass-alloy system Nd-Fe-Al. Journal of Magnetism and Magnetic Materials, 2006, 299, 265-280.	1.0	35
105	Structural phase transition and ferromagnetism in monodisperse 3 nm FePt particles. Journal of Applied Physics, 2007, 102, .	1.1	35
106	Microstructure analysis of a SmCo/Fe exchange spring bilayer. Applied Physics Letters, 2008, 93, .	1.5	35
107	Experimental and ab initio structural studies of liquid $\text{Zr}_{11}\text{Mn}_{35}$. Physical Review B, 2009, 79, .		
108	Microstructure and intergranular diffusion in exchange-coupled Sm-Co/Fe nanocomposites. Applied Physics Letters, 2010, 97, 032506.	1.5	35

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109	Crustal deformation, the earthquake cycle, and models of viscoelastic flow in the asthenosphere. Geophysical Journal International, 1984, 78, 735-750.	1.0	34
110	Solubility of boron in Mo _{5+y} Si _{3-y} . Intermetallics, 2000, 8, 143-150.	1.8	34
111	Phase and Elemental Distributions in Alnico Magnetic Materials. IEEE Transactions on Magnetics, 2013, 49, 3314-3317.	1.2	33
112	Thermodynamic and kinetic analysis of the melt spinning process of Fe-6.5wt.% Si alloy. Journal of Alloys and Compounds, 2019, 771, 643-648.	2.8	33
113	High-energy X-ray measurements of structural anisotropy and excess free volume in a homogenously deformed Zr-based metallic glass. Acta Materialia, 2006, 54, 2463-2471.	3.8	32
114	High-Accuracy X-Ray Diffraction Analysis of Phase Evolution Sequence During Devitrification of Cu50Zr50 Metallic Glass. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 1144-1153.	1.1	32
115	Development of MnBi permanent magnet: Neutron diffraction of MnBi powder. Journal of Applied Physics, 2014, 115, .	1.1	32
116	Formation of multilayered scale during the oxidation of NiAl-Mo alloy. Applied Surface Science, 2014, 301, 107-111.	3.1	32
117	Plastic deformation in icosahedral Al-Pd-Mn alloys. Journal of Materials Research, 1994, 9, 343-347.	1.2	31
118	Initial crystallization in a nanostructured Al-Sm rare earth alloy. Journal of Non-Crystalline Solids, 2010, 356, 1416-1424.	1.5	31
119	Vacancy-mediated complex phase selection in high entropy alloys. Acta Materialia, 2020, 194, 540-546.	3.8	31
120	Magnetic properties of Nd ³⁺ in Nd _x Ba _y Cu _z O-compounds. European Physical Journal B, 1994, 95, 301-310.	0.6	30
121	Effects of Interstitial Additions on the Structure of Ti ₅ Si ₃ . Journal of Materials Research, 2000, 15, 1773-1779.	1.2	30
122	Generation of high-density biskyrmions by electric current. Npj Quantum Materials, 2017, 2, .	1.8	30
123	Effects of Solidification Cooling Rates on Microstructures and Physical Properties of Fe-6.5%Si Alloys. Acta Materialia, 2021, 205, 116575.	3.8	30
124	Magnetic properties of single crystalline itinerant ferromagnet $\text{AlFe}_{0.9}$ B ₃₀ . Physical Review Materials, 2018, 2, .	0.9	30
125	Diffusion of Cu in AlCu alloys of different composition by quasielastic neutron scattering. Journal of Non-Crystalline Solids, 2007, 353, 3295-3299. Structural and dynamical properties of liquid $\text{Al}_{29}\text{Cu}_{71}$.	1.5	29
126	Physical Review B, 2011, 84, .	1.1	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.	0.2	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.	1.0	29
129	Consolidation of gas atomized Cu47Ti34Zr11Ni8 amorphous powders. <i>Journal of Non-Crystalline Solids</i> , 2003, 317, 137-143.	1.5	28
130	High temperature magnetic properties of SmCo5/ \pm -Fe(Co) bulk nanocomposite magnets. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	28
131	Effect of selective Co addition on magnetic properties of Nd ₂ (FeCo) ₁₄ B/ \pm -Fe nanocomposite magnets. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 045001.	1.3	28
132	Diffusion in a Cu-Zr metallic glass studied by microsecond-scale molecular dynamics simulations. <i>Physical Review B</i> , 2015, 91, .	1.1	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.	1.3	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.	1.3	28
135	Ordering, Incommensuration, and Phase Transitions in Pyrrhotite. <i>Journal of Solid State Chemistry</i> , 1996, 124, 264-271.	1.4	27
136	Solubility limits of LRE _{1+x} Ba _{2-x} Cu ₃ O _{7-y} . <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.	2.3	27
138	Simulation of alnico coercivity. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	27
139	Mechanism for flux pinning in NdBa ₂ Cu ₃ O _{7-y} melt-textured in low oxygen partial pressure. <i>Applied Physics Letters</i> , 1997, 71, 3572-3574.	1.5	26
140	Crystal structure of the hexagonal Zn ₃ MgY phase. <i>Journal of Alloys and Compounds</i> , 2004, 373, 156-160.	2.8	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.	1.8	26
142	Correlation between microstructure and first-order magnetization reversal in the SmCo ₅ / \pm -Fe nanocomposite magnets. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 1329-1332.	0.9	26
143	Effect of pressure loading rate on the crystallographic texture of NdFeB nanocrystalline magnets. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	26
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