

Matthew J Kramer

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L-index

#	Paper	IF	Citations
432	Highly optimized embedded-atom-method potentials for fourteen fcc metals. <i>Physical Review B</i> , 2011 , 83,	3.3	340
431	Using atomistic computer simulations to analyze x-ray diffraction data from metallic glasses. <i>Journal of Applied Physics</i> , 2007 , 102, 043501	2.5	251
430	Cerium: an unlikely replacement of dysprosium in high performance Nd-Fe-B permanent magnets. <i>Advanced Materials</i> , 2015 , 27, 2663-7	24	224
429	Prospects for Non-Rare Earth Permanent Magnets for Traction Motors and Generators. <i>Jom</i> , 2012 , 64, 752-763	2.1	201
428	Current progress and future challenges in rare-earth-free permanent magnets. <i>Acta Materialia</i> , 2018 , 158, 118-137	8.4	199
427	Structural heterogeneity and medium-range order in Zr_xCu_{100-x} metallic glasses. <i>Physical Review B</i> , 2009 , 80,	3.3	190
426	Hole filling, charge transfer and superconductivity in $Nd_{1+x}Ba_{2-x}Cu_3O_{7+\delta}$. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 219, 145-155	1.3	166
425	On-the-fly machine-learning for high-throughput experiments: search for rare-earth-free permanent magnets. <i>Scientific Reports</i> , 2014 , 4, 6367	4.9	160
424	Boron-doped molybdenum silicides for structural applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 261, 16-23	5.3	148
423	Nanoscale structure and structural relaxation in $Zr_{50}Cu_{45}Al_5$ bulk metallic glass. <i>Physical Review Letters</i> , 2012 , 108, 195505	7.4	136
422	Compressive creep behavior of Mo_5Si_3 with the addition of boron. <i>Intermetallics</i> , 1996 , 4, 273-281	3.5	122
421	Processing and mechanical properties of a molybdenum silicide with the composition $Mo_{1-2}Si_{18.5}B$ (at.%). <i>Intermetallics</i> , 2001 , 9, 25-31	3.5	121
420	Controlled Anisotropic Growth of Co-Fe-P from Co-Fe-O Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9642-5	16.4	119
419	Nature of the cubic to rhombohedral structural transformation in $(AgSbTe_2)_{15}(GeTe)_{85}$ thermoelectric material. <i>Journal of Applied Physics</i> , 2007 , 101, 053715	2.5	118
418	Architecture and magnetism of alnico. <i>Acta Materialia</i> , 2014 , 74, 224-233	8.4	105
417	Fatigue-resistant high-performance elastocaloric materials made by additive manufacturing. <i>Science</i> , 2019 , 366, 1116-1121	33.3	103
416	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		95

415	Analysis of Nanostructuring in High Figure-of-Merit $\text{Ag}_{1-x}\text{PbmSbTe}_{2+m}$ Thermoelectric Materials. <i>Advanced Functional Materials</i> , 2009 , 19, 1254-1259	15.6	94
414	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	1.7	91
413	Experimental and ab initio molecular dynamics simulation studies of liquid $\text{Al}_{60}\text{Cu}_{40}$ alloy. <i>Physical Review B</i> , 2009 , 79,	3.3	91
412	Relating Dynamic Properties to Atomic Structure in Metallic Glasses. <i>Jom</i> , 2012 , 64, 856-881	2.1	89
411	Fabrication of bulk nanocomposite magnets via severe plastic deformation and warm compaction. <i>Applied Physics Letters</i> , 2010 , 96, 102513	3.4	89
410	Crystalline surface structures induced by ion sputtering of Al-rich icosahedral quasicrystals. <i>Physical Review B</i> , 1998 , 58, 9961-9971	3.3	89
409	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, 053511	2.5	85
408	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. <i>Acta Materialia</i> , 2016 , 103, 211-216	8.4	82
407	One-pot synthesis of urchin-like $\text{FePd-Fe}_3\text{O}_4$ and their conversion into exchange-coupled $\text{L1}(0)\text{-FePd-Fe}$ nanocomposite magnets. <i>Nano Letters</i> , 2013 , 13, 4975-9	11.5	82
406	Systematic mapping of icosahedral short-range order in a melt-spun $\text{Zr}_{36}\text{Cu}_{64}$ metallic glass. <i>Physical Review Letters</i> , 2013 , 110, 205505	7.4	79
405	Exploring the structural complexity of intermetallic compounds by an adaptive genetic algorithm. <i>Physical Review Letters</i> , 2014 , 112, 045502	7.4	78
404	Stabilization of an ambient-pressure collapsed tetragonal phase in CaFe_2As_2 and tuning of the orthorhombic-antiferromagnetic transition temperature by over 70 K via control of nanoscale precipitates. <i>Physical Review B</i> , 2011 , 83,	3.3	76
403	Synthesis of $\text{Cu}_{47}\text{Ti}_{34}\text{Zr}_{11}\text{Ni}_8$ Bulk Metallic Glass by Warm Extrusion of Gas Atomized Powders. <i>Journal of Materials Research</i> , 2002 , 17, 186-198	2.5	74
402	Short- and medium-range order in $\text{Zr}_{80}\text{Pt}_{20}$ liquids. <i>Physical Review B</i> , 2011 , 83,	3.3	71
401	Effect of composition and heat treatment on MnBi magnetic materials. <i>Acta Materialia</i> , 2014 , 79, 374-388.	4	66
400	Rapid chemical and topological ordering in supercooled liquid $\text{Cu}_{46}\text{Zr}_{54}$. <i>Physical Review B</i> , 2011 , 83,	3.3	66
399	Spatially resolved distribution function and the medium-range order in metallic liquid and glass. <i>Scientific Reports</i> , 2011 , 1, 194	4.9	61
398	Applications of an extended Miedema's model for ternary alloys. <i>Journal of Alloys and Compounds</i> , 2010 , 489, 357-361	5.7	59

397	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		59
396	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	1-3	59
395	Atomic-scale chemical imaging and quantification of metallic alloy structures by energy-dispersive X-ray spectroscopy. <i>Scientific Reports</i> , 2014 , 4, 3945	4-9	57
394	Chemical synthesis of hard magnetic SmCo nanoparticles. <i>Journal of Materials Chemistry</i> , 2011 , 21, 16873		55
393	Superheat-dependent microstructure of molten AlBi alloys of different compositions studied by small angle neutron scattering. <i>Journal of Alloys and Compounds</i> , 2013 , 550, 9-22	5-7	54
392	Computer simulation and experimental study of elastic properties of amorphous Cu-Zr alloys. <i>Journal of Applied Physics</i> , 2007 , 102, 093518	2-5	54
391	Microstructure and oxidation behavior of NbMoSiB alloys. <i>Intermetallics</i> , 2006 , 14, 24-32	3-5	54
390	A study on the role of Nb in melt-spun nanocrystalline NdFeB magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 268, 105-113	2-8	51
389	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	1-7	51
388	Medium-range structure and glass forming ability in ZrCuAl bulk metallic glasses. <i>Acta Materialia</i> , 2016 , 109, 103-114	8-4	50
387	Thermal stability of MnBi magnetic materials. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 064212	1-8	50
386	Characterization and oxidation behavior of silicide coating on multiphase MoSiB alloy. <i>Intermetallics</i> , 2008 , 16, 1125-1133	3-5	49
385	Structure of molten AlBi alloys. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 3005-3010	3-9	49
384	Rapid solidification and metallic glass formation [Experimental and theoretical limits. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 3633-3639	3-9	49
383	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	5-7	49
382	Atomic size and chemical effects on the local order of Zr ₂ M (M=Co, Ni, Cu, and Ag) binary liquids. <i>Physical Review B</i> , 2010 , 81,	3-3	48
381	Theoretical calculations and experimental measurements of the structure of Ti ₅ Si ₃ with interstitial additions. <i>Intermetallics</i> , 2000 , 8, 937-943	3-5	48
380	Achieving large uniform tensile ductility in nanocrystalline metals. <i>Physical Review Letters</i> , 2010 , 105, 215502	7-4	47

- 379 Anointing chemicals and hematophagous arthropods: responses by ticks and mosquitoes to citrus (Rutaceae) peel exudates and monoterpene components. *Journal of Chemical Ecology*, **2011**, 37, 348-59 2-7 46
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- 377 Self-nanoscaling of the soft magnetic phase in bulk SmCo/Fe nanocomposite magnets. *Journal of Materials Science*, **2011**, 46, 6065-6074 4-3 45
- 376 Structural aspects of the fivefold quasicrystalline Al₇₀Fe surface from STM and dynamical LEED studies. *Surface Science*, **2001**, 495, 19-34 1-8 45
- 375 Reactive gas atomization processing for Fe-based ODS alloys. *Journal of Nuclear Materials*, **2012**, 428, 65-75 3-3 44
- 374 Oxidation behavior of Mo₅SiB alloys in wet air. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 371, 335-342 5-3 44
- 373 The thermal, magnetic, and structural characterization of the crystallization kinetics of Fe/sub 88/Zr/sub 7/B/sub 4/Cu/sub 1/, an amorphous soft magnetic ribbon. *IEEE Transactions on Magnetics*, **2002**, 38, 3039-3044 2 44
- 372 Effects of sub-T_g annealing on Cu_{64.5}Zr_{35.5} glasses: A molecular dynamics study. *Applied Physics Letters*, **2014**, 104, 061905 3-4 43
- 371 Oxygen-stabilized glass formation in Zr₈₀Pt₂₀ melt-spun ribbons. *Applied Physics Letters*, **2003**, 83, 69-71 3-4 43
- 370 Origins of coercivity in the amorphous alloy Nd-Fe-Al. *IEEE Transactions on Magnetics*, **2001**, 37, 2497-2499 4 43
- 369 Self-nanoscaling in FeCo alloys prepared via severe plastic deformation. *Journal of Alloys and Compounds*, **2012**, 521, 55-59 5-7 42
- 368 Suppression of superconductivity in the R(Ba_{1-x}R_x)₂Cu₃O₇+δ (R=Pr,Nd) system. *Physical Review B*, **1997**, 56, 5512-5517 3-3 42
- 367 Innovative applications of genetic algorithms to problems in accelerator physics. *Physical Review Special Topics: Accelerators and Beams*, **2013**, 16, 043301 4-1 41
- 366 On the growth of icosahedral Al₇₀Pd₂₀Mn quasicrystals from the ternary melt. *The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties*, **1999**, 79, 1673-1684 4-0 40
- 365 Optimization of strength and ductility in nanotwinned ultra-fine grained Ag: Twin density and grain orientations. *Acta Materialia*, **2015**, 96, 378-389 8-4 39
- 364 'Crystal Genes' in Metallic Liquids and Glasses. *Scientific Reports*, **2016**, 6, 23734 4-9 39
- 363 High thermal stability of carbon-coated L10-FePt nanoparticles prepared by salt-matrix annealing. *Journal of Applied Physics*, **2008**, 103, 07E131 2-5 39
- 362 Cooling rates dependence of medium-range order development in Cu_{64.5}Zr_{35.5} metallic glass. *Physical Review B*, **2015**, 91, 044111 3-3 38

361	Short- and medium-range order in a Zr ₇₃ Pt ₂₇ glass: Experimental and simulation studies. <i>Physical Review B</i> , 2008 , 78,	3.3	38
360	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, 17818-21	11.5	38
359	Local chemical and topological order in Al ₇₅ Bi and its role in controlling nanocrystal formation. <i>Acta Materialia</i> , 2012 , 60, 994-1003	8.4	37
358	Stripe-like nanoscale structural phase separation in superconducting BaPb(1-x)Bi(x)O ₃ . <i>Nature Communications</i> , 2015 , 6, 8231	17.4	36
357	Effect of oxygen partial pressure on the lower solubility limit of Nd _{1+x} Ba _{2-x} Cu ₃ O ₇ . <i>Physica C: Superconductivity and Its Applications</i> , 1997 , 290, 252-264	1.3	36
356	In-situ elevated-temperature TEM study of (AgSbTe ₂) ₁₅ (GeTe) ₈₅ . <i>Journal of Materials Science</i> , 2007 , 42, 7643-7646	4.3	36
355	A LEED comparison of structural stabilities of the three high-symmetry surfaces of Al ₁₃ Pd ₁₇ Mn bulk quasicrystals. <i>Surface Science</i> , 2000 , 450, 1-11	1.8	36
354	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	2.5	36
353	Understanding the phase relations and cation disorder in LRE _{1+x} Ba _{2-x} Cu ₃ O ₇ + δ . <i>Journal of Electronic Materials</i> , 1995 , 24, 1931-1935	1.9	36
352	Processing of MnBi bulk magnets with enhanced energy product. <i>AIP Advances</i> , 2016 , 6, 056004	1.5	36
351	Local structure in marginal glass forming Al ₇₅ Bi alloy. <i>Intermetallics</i> , 2010 , 18, 1676-1682	3.5	35
350	Solidification, microstructural refinement and magnetism in Nd ₂ Fe ₁₄ B. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 241, 144-155	2.8	35
349	Microstructural and magnetic property evolution with different heat-treatment conditions in an alnico alloy. <i>Acta Materialia</i> , 2017 , 133, 73-80	8.4	34
348	Anisotropic magnetocaloric response in AlFe ₂ B ₂ . <i>Journal of Alloys and Compounds</i> , 2018 , 745, 505-512	5.7	34
347	Size-induced chemical and magnetic ordering in individual Fe-Au nanoparticles. <i>ACS Nano</i> , 2014 , 8, 8113-207	2.0	34
346	Experimental and ab initio structural studies of liquid Zr ₂ Ni. <i>Physical Review B</i> , 2009 , 79,	3.3	34
345	Nearest-neighbor coordination and chemical ordering in multicomponent bulk metallic glasses. <i>Applied Physics Letters</i> , 2007 , 90, 211908	3.4	34
344	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	3.3	34

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- 342 Magnetic aspects of the ferromagnetic Bulk metallic glass alloy system NdBeAl. *Journal of Magnetism and Magnetic Materials*, **2006**, 299, 265-280 2.8 33
- 341 In situ Growth of SiC Whisker in Pyrolyzed Monolithic Mixture of AHPCS and SiC. *Journal of the American Ceramic Society*, **2000**, 83, 2961-2966 3.8 33
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- 335 Microstructure analysis of a SmCo/Fe exchange spring bilayer. *Applied Physics Letters*, **2008**, 93, 192502 3.4 30
- 334 High-energy X-ray measurements of structural anisotropy and excess free volume in a homogeneously deformed Zr-based metallic glass. *Acta Materialia*, **2006**, 54, 2463-2471 8.4 30
- 333 Solubility of boron in Mo_{5+y}Si_{3-y}. *Intermetallics*, **2000**, 8, 143-150 3.5 30
- 332 Plastic deformation in icosahedral AlBdMn alloys. *Journal of Materials Research*, **1994**, 9, 343-347 2.5 30
- 331 Magnetic properties of Nd³⁺ in NdBaCuD-compounds. *European Physical Journal B*, **1994**, 95, 301-310 1.2 30
- 330 Subsurface Cooling Rates and Microstructural Response during Laser Based Metal Additive Manufacturing. *Scientific Reports*, **2020**, 10, 1981 4.9 29
- 329 Development of MnBi permanent magnet: Neutron diffraction of MnBi powder. *Journal of Applied Physics*, **2014**, 115, 17A743 2.5 29
- 328 Crustal deformation, the earthquake cycle, and models of viscoelastic flow in the asthenosphere. *Geophysical Journal International*, **1984**, 78, 735-750 2.6 29
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- 325 Atomically Intimate Contact between Solid Electrolytes and Electrodes for Li Batteries. *Matter*, **2019**, 1, 1001-1016 12.7 27
- 324 Combinatorial exploration of rare-earth-free permanent magnets: Magnetic and microstructural properties of Fe-Co-W thin films. *Applied Physics Letters*, **2013**, 102, 022419 3.4 27
- 323 Oxidation mechanism of W substituted Mo-Si-B alloys. *Intermetallics*, **2017**, 87, 38-44 3.5 26
- 322 Toward Phase and Catalysis Control: Tracking the Formation of Intermetallic Nanoparticles at Atomic Scale. *CheM*, **2019**, 5, 1235-1247 16.2 26
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- 318 Ordering, Incommensuration, and Phase Transitions in Pyrrhotite. *Journal of Solid State Chemistry*, **1996**, 124, 264-271 3.3 26
- 317 Uncompensated Polarization in Incommensurate Modulations of Perovskite Antiferroelectrics. *Physical Review Letters*, **2019**, 123, 217602 7.4 26
- 316 Crystallization Kinetics and Phase Transformation Mechanisms in $\text{Cu}_{56}\text{Zr}_{44}$ Glassy Alloy. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2015**, 46, 3356-3364 2.3 25
- 315 Phase and Elemental Distributions in Alnico Magnetic Materials. *IEEE Transactions on Magnetics*, **2013**, 49, 3314-3317 2 25
- 314 High temperature magnetic properties of $\text{SmCo}_5/\text{Fe}(\text{Co})$ bulk nanocomposite magnets. *Applied Physics Letters*, **2012**, 101, 152401 3.4 25
- 313 Crystal structure of the hexagonal Zn_3MgY phase. *Journal of Alloys and Compounds*, **2004**, 373, 156-160 5.7 25
- 312 Influence of oxygen content in phase selection during quenching of $\text{Zr}_{80}\text{Pt}_{20}$ melt spun ribbons. *Intermetallics*, **2004**, 12, 1211-1217 3.5 25
- 311 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 0.5 25
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307	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	3.9	24
306	Heat capacity data of doped NdBa ₂ Cu ₃ O _x . <i>Journal of Applied Physics</i> , 1993 , 73, 6317-6319	2.5	24
305	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	3.4	24
304	Laser-Induced Keyhole Defect Dynamics during Metal Additive Manufacturing. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900455	3.5	23
303	Formation of multilayered scale during the oxidation of NiAl/Mo alloy. <i>Applied Surface Science</i> , 2014 , 301, 107-111	6.7	23
302	Effect of selective Co addition on magnetic properties of Nd ₂ (FeCo) ₁₄ B/Fe nanocomposite magnets. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 045001	3	23
301	Bulk SmCo ₅ /Fe nanocomposite permanent magnets fabricated by mould-free Joule-heating compaction. <i>Journal of Applied Physics</i> , 2011 , 109, 07A735	2.5	23
300	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	23
299	Mechanism for flux pinning in NdBa ₂ Cu ₃ O _{7-δ} melt-textured in low oxygen partial pressure. <i>Applied Physics Letters</i> , 1997 , 71, 3572-3574	3.4	23
298	The surface structure of a FeAl(Cu _{1-x} Fe _x)-(110) film formed on an AlCuFe quasicrystal substrate, analyzed by dynamical LEED. <i>Surface Science</i> , 1998 , 411, 86-98	1.8	23
297	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, 123532	2.5	23
296	Bulk FePt/Fe ₃ Pt nanocomposite magnets prepared by spark plasma sintering. <i>Journal of Applied Physics</i> , 2007 , 101, 09K515	2.5	23
295	A high-throughput investigation of Fe-Cr-Al as a novel high-temperature coating for nuclear cladding materials. <i>Nanotechnology</i> , 2015 , 26, 274003	3.4	22
294	Composition-dependent stability of the medium-range order responsible for metallic glass formation. <i>Acta Materialia</i> , 2014 , 81, 337-344	8.4	22
293	Exchange-coupled nanoscale SmCo/NdFeB hybrid magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 2836-2839	2.8	22
292	Advances in Characterization of Non-Rare-Earth Permanent Magnets: Exploring Commercial Alnico Grades 5 and 9. <i>Jom</i> , 2013 , 65, 862-869	2.1	22
291	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	2.3	22
290	Extrinsic origin of the insulating behavior of polygrain icosahedral Al ₁₀ Re quasicrystals. <i>Physical Review B</i> , 2006 , 74,	3.3	22

289	Plastic deformation in an AlCuBe icosahedral alloy. <i>Journal of Materials Research</i> , 1993 , 8, 1199-1202	2.5	22
288	Deformation twinning in a face-centred icosahedral AlCuFe quasicrystal. <i>Philosophical Magazine Letters</i> , 1994 , 69, 115-121	1	22
287	Local structure order in Pd ₇₈ Cu ₆ Si ₁₆ liquid. <i>Scientific Reports</i> , 2015 , 5, 8277	4.9	21
286	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	2.8	21
285	Effects of interstitial additions on the structure of Ti ₅ Si ₃ . <i>Journal of Materials Research</i> , 2000 , 15, 1773-1779	3.9	21
284	Valence determination as a function of doping in PrBa ₂ Cu ₃ O ₇ . <i>Physical Review B</i> , 2000 , 61, 1548-1554	3.3	21
283	Enhanced superconductivity in Nd _{1+x} Ba _{2-x} Cu ₃ O _{7-y} by low oxygen partial pressure annealing. <i>Journal of Electronic Materials</i> , 1994 , 23, 1117-1120	1.9	21
282	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	5.7	21
281	Novel pre-alloyed powder processing of modified alnico 8: Correlation of microstructure and magnetic properties. <i>Journal of Applied Physics</i> , 2015 , 117, 17D138	2.5	20
280	Development of a deep machine learning interatomic potential for metalloid-containing Pd-Si compounds. <i>Physical Review B</i> , 2019 , 100,	3.3	20
279	Structural and magnetic evolution of bimetallic MnAu clusters driven by asymmetric atomic migration. <i>Nano Letters</i> , 2014 , 14, 1362-8	11.5	20
278	Controlled Anisotropic Growth of Co-Fe-P from Co-Fe-O Nanoparticles. <i>Angewandte Chemie</i> , 2015 , 127, 9778-9781	3.6	20
277	Novel processing of high-performance MnBi magnets. <i>Materials Research Express</i> , 2014 , 1, 036108	1.7	20
276	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	2.5	20
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