

Matthew J Kramer

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

432
papers

10,326
citations

49
h-index

79
g-index

442
ext. papers

11,380
ext. citations

3.8
avg, IF

6.1
L-index

#	Paper	IF	Citations
432	Effects of tensile loading during annealing of alnico melt spun ribbons. <i>AIP Advances</i> , 2022 , 12, 035338	1.5	
431	Microstructural evolutions, phase transformations and hard magnetic properties in polycrystalline Ce _{1-x} Co _x Be _{1-x} Tu alloys. <i>Materials Chemistry and Physics</i> , 2022 , 286, 126179	4.4	
430	Unveiling the mechanism of phase and morphology selections during the devitrification of Al-Sm amorphous ribbon. <i>Physical Review Materials</i> , 2021 , 5,	3.2	2
429	Uniaxial compression of [001]-oriented CaFe ₂ As ₂ single crystals:the effects of microstructure and temperature on superelasticity Part I: Experimental observations. <i>Acta Materialia</i> , 2021 , 203, 116464	8.4	1
428	Magnetic and mechanical properties of grain-refined Dy-free Nd-Fe-B sintered magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 521, 167533	2.8	3
427	Effect of Processing Hydrogen Pressure on Magnetic Properties of HDDR Nd-Fe-B Magnet. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-4	2	1
426	Effects of Solidification Cooling Rates on Microstructures and Physical Properties of Fe-6.5%Si Alloys. <i>Acta Materialia</i> , 2021 , 205, 116575	8.4	3
425	Structural and magnetic properties of hard magnetic system Ce(Co _{1-x} Fe _x) _{4.4} Cu _{0.6} (0 ≤ x ≤ 0.19). <i>Journal of Alloys and Compounds</i> , 2021 , 883, 160866	5.7	0
424	Monitoring eutectoid decomposition process of metastable phases in Al-Sm alloy via in-situ X-ray scattering and ex-situ transmission electron microscopy. <i>Materials Characterization</i> , 2020 , 170, 110665	3.9	1
423	Dynamic Observation of Dendritic Quasicrystal Growth upon Laser-Induced Solid-State Transformation. <i>Physical Review Letters</i> , 2020 , 125, 195503	7.4	5
422	Vacancy-mediated complex phase selection in high entropy alloys. <i>Acta Materialia</i> , 2020 , 194, 540-546	8.4	13
421	Functionalizing magnet additive manufacturing with in-situ magnetic field source. <i>Additive Manufacturing</i> , 2020 , 34, 101289	6.1	3
420	Mechanisms of Skyrmion and Skyrmion Crystal Formation from the Conical Phase. <i>Nano Letters</i> , 2020 , 20, 4731-4738	11.5	5
419	Subsurface Cooling Rates and Microstructural Response during Laser Based Metal Additive Manufacturing. <i>Scientific Reports</i> , 2020 , 10, 1981	4.9	29
418	Development of Mischmetal-Fe-Co-B Permanent Magnet Alloys via High-Throughput Methods. <i>ACS Combinatorial Science</i> , 2020 , 22, 248-254	3.9	6
417	In-situ Observation of Magnetic Skyrmion Crystal Growth from the Conical Phase. <i>Microscopy and Microanalysis</i> , 2020 , 26, 1764-1765	0.5	
416	Near net shape fabrication of anisotropic Fe-6.5%Si soft magnetic materials. <i>Acta Materialia</i> , 2020 , 201, 209-216	8.4	10

415	Changes in short- and medium-range order in metallic liquids during undercooling. <i>MRS Bulletin</i> , 2020 , 45, 943-950	3.2	8
414	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	3.6	10
413	Reinvestigation of the intrinsic magnetic properties of (Fe _{1-x} Co _x) ₂ B alloys and crystallization behavior of ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 513, 167214	2.8	1
412	Tracking Metastable Phase Selection during Devitrification in a Metallic Glass. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1874-1875	0.5	
411	Formation and Relaxation Dynamics of Magnetic Skyrmion. <i>Microscopy and Microanalysis</i> , 2019 , 25, 36-37.5		1
410	Single-Crystal Permanent Magnets: Extraordinary Magnetic Behavior in the Ta-, Cu-, and Fe-Substituted CeCo ₅ Systems. <i>Physical Review Applied</i> , 2019 , 11,	4.3	9
409	Observation of EISm reveals motif-aware structural evolution in Al-Sm alloys. <i>Scientific Reports</i> , 2019 , 9, 6692	4.9	3
408	Designing oxidation resistant ultra-high temperature ceramics through the development of an adherent native thermal barrier. <i>Journal of Alloys and Compounds</i> , 2019 , 790, 1119-1126	5.7	6
407	Lattice-driven magnetic transitions in Al(Fe,T) ₂ X ₂ compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 481, 262-267	2.8	5
406	Effects of High Magnetic Fields on Phase Transformations in Amorphous Nd ₂ Fe ₁₄ B. <i>Magnetochemistry</i> , 2019 , 5, 16	3.1	5
405	Toward Phase and Catalysis Control: Tracking the Formation of Intermetallic Nanoparticles at Atomic Scale. <i>Chem</i> , 2019 , 5, 1235-1247	16.2	26
404	In-situ TEM analysis of the phase transformation mechanism of a Cu ₃ AlNi shape memory alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 808, 151743	5.7	7
403	Microstructure and Magnetic Properties of Grain Refined Pr ₂ Co ₁₄ B Melt-Spun Ribbons. <i>Magnetochemistry</i> , 2019 , 5, 6	3.1	2
402	Atomically Intimate Contact between Solid Electrolytes and Electrodes for Li Batteries. <i>Matter</i> , 2019 , 1, 1001-1016	12.7	27
401	Laser-Induced Keyhole Defect Dynamics during Metal Additive Manufacturing. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900455	3.5	23
400	Development of a deep machine learning interatomic potential for metalloid-containing Pd-Si compounds. <i>Physical Review B</i> , 2019 , 100,	3.3	20
399	Effects of Al and Fe solubility on the magnetofunctional properties of AlFe ₂ B ₂ . <i>Physical Review Materials</i> , 2019 , 3,	3.2	5
398	Fatigue-resistant high-performance elastocaloric materials made by additive manufacturing. <i>Science</i> , 2019 , 366, 1116-1121	33.3	103

397	Uncompensated Polarization in Incommensurate Modulations of Perovskite Antiferroelectrics. <i>Physical Review Letters</i> , 2019 , 123, 217602	7.4	26
396	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	5.7	20
395	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	6.7	12
394	An abnormal meta-stable nanoscale eutectic reaction revealed by in-situ observations. <i>Acta Materialia</i> , 2019 , 164, 697-703	8.4	4
393	Low-Field Alignment of Anisotropic Bonded Magnets for Additive Manufacturing of Permanent Magnet Motors. <i>Jom</i> , 2019 , 71, 626-632	2.1	9
392	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
391	Microstructure and coercivity in alnico 9. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 471, 142-147	7	
390	Anisotropic magnetocaloric response in AlFe ₂ B ₂ . <i>Journal of Alloys and Compounds</i> , 2018 , 745, 505-512	5.7	34
389	Rapid Assessment of the Ce-Co-Fe-Cu System for Permanent Magnetic Applications. <i>Jom</i> , 2018 , 70, 872-878	9	
388	Texture development and coercivity enhancement in cast alnico 9 magnets. <i>AIP Advances</i> , 2018 , 8, 056215	15	0
387	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	16.4	4
386	Novel mechanisms for solid-state processing and grain growth with microstructure alignment in alnico-8 based permanent magnets. <i>AIP Advances</i> , 2018 , 8, 056206	1.5	6
385	Local structure orders and glass forming ability of Ni-Nb liquids. <i>Intermetallics</i> , 2018 , 98, 131-138	3.5	4
384	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
383	On spinodal decomposition in alnico - A transmission electron microscopy and atom probe tomography study. <i>Acta Materialia</i> , 2018 , 153, 15-22	8.4	11
382	Investigation of partitionless growth of Al ₆₀ Sm ₁₁ phase in Al-10 at% Sm liquid. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2018 , 26, 015006	2	6
381	Current progress and future challenges in rare-earth-free permanent magnets. <i>Acta Materialia</i> , 2018 , 158, 118-137	8.4	199
380	Spatially-correlated site occupancy in the nonstoichiometric meta-stable Al ₆₀ Sm ₁₁ phase during devitrification of Al-10.2 at.% Sm glasses. <i>Acta Materialia</i> , 2018 , 156, 97-103	8.4	5

379	Effects of Al content and annealing on the phases formation, lattice parameters, and magnetization of $\text{Al}_x\text{Fe}_2\text{B}_2$ ($x=1.0, 1.1, 1.2$) alloys. <i>Physical Review Materials</i> , 2018 , 2,	3.2	17
378	Magnetic properties of single crystalline itinerant ferromagnet AlFe_2B_2 . <i>Physical Review Materials</i> , 2018 , 2,	3.2	18
377	Microstructural Development in Melt-spun $\text{Nd}_2\text{Fe}_{14}\text{B}$ Under High Magnetic Field Annealing. <i>Microscopy and Microanalysis</i> , 2018 , 24, 958-959	0.5	0
376	Relaxation Dynamics of Zero-Field Skyrmions over a Wide Temperature Range. <i>Nano Letters</i> , 2018 , 18, 7777-7783	11.5	18
375	A first-principles based description of the Hf-Ni system supported by high-temperature synchrotron experiments. <i>Thermochimica Acta</i> , 2018 , 668, 142-151	2.9	4
374	Magnetic field control of microstructural development in melt-spun $\text{Pr}_2\text{Co}_{14}\text{B}$. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 430, 85-88	2.8	4
373	Development of controlled solid-state alignment for alnico permanent magnets in near-final shape. <i>AIP Advances</i> , 2017 , 7, 056209	1.5	4
372	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
371	Pressureless Sintering of Mo-Si-B Alloys with Fe Additive. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 2417-2422	1.6	6
370	Combinatorial study of Fe-Co-V hard magnetic thin films. <i>Science and Technology of Advanced Materials</i> , 2017 , 18, 231-238	7.1	19
369	Oxidation mechanism of W substituted Mo-Si-B alloys. <i>Intermetallics</i> , 2017 , 87, 38-44	3.5	26
368	Role of polyhedral order in glass to crystal transition dynamics in $\text{Zr}_{60}\text{Cu}_{10}\text{Al}_{15}\text{Ni}_{15}$ glass forming alloy. <i>Journal of Non-Crystalline Solids</i> , 2017 , 471, 256-263	3.9	1
367	Cooperative and noncooperative magnetization reversal in alnicos. <i>AIP Advances</i> , 2017 , 7, 056222	1.5	1
366	Electronic structure and magnetic properties in T_2AlB_2 (T=Fe, Mn, Cr, Co, and Ni) and their alloys. <i>Physical Review B</i> , 2017 , 95,	3.3	28
365	Si-centered capped trigonal prism ordering in liquid $\text{Pd}_{82}\text{Si}_{18}$ alloy study by first-principles calculations. <i>RSC Advances</i> , 2017 , 7, 18093-18098	3.7	7
364	Generation of high-density biskyrmions by electric current. <i>Npj Quantum Materials</i> , 2017 , 2,	5	24
363	Cluster-Expansion Model for Complex Quinary Alloys: Application to Alnico Permanent Magnets. <i>Physical Review Applied</i> , 2017 , 8,	4.3	6
362	The solidification of AlPdMn studied by high-energy X-ray diffraction from electrostatically levitated samples. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2017 , 232, 619-627	1	

361	Highly responsive ground state of PbTaSe ₂ : Structural phase transition and evolution of superconductivity under pressure. <i>Physical Review B</i> , 2017 , 95,	3.3	9
360	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	2.8	19
359	Applications and limitations of electron correlation microscopy to study relaxation dynamics in supercooled liquids. <i>Ultramicroscopy</i> , 2017 , 178, 125-130	3.1	7
358	Structural ordering at solid-liquid interfaces in Al-Sm system: A molecular-dynamics study. <i>Materials Letters</i> , 2017 , 186, 26-29	3.3	14
357	Simulation of alnico coercivity. <i>Applied Physics Letters</i> , 2017 , 111, 022403	3.4	19
356	Atomistic understanding of structural evolution in alnico alloys using advanced AC-STEM. <i>Microscopy and Microanalysis</i> , 2017 , 23, 382-383	0.5	
355	Structural hierarchy as a key to complex phase selection in Al-Sm. <i>Physical Review Materials</i> , 2017 , 1,	3.2	13
354	Large energy product enhancement in perpendicularly coupled MnBi/CoFe magnetic bilayers. <i>Physical Review B</i> , 2016 , 94,	3.3	9
353	Stabilization of a Metastable Fibrous Bi _{21.2} (1)(Mn _{1-x} Co _x) ₂₀ Phase with Pseudo-Pentagonal Symmetry Prepared Using a Bi Self-Flux. <i>Chemistry of Materials</i> , 2016 , 28, 8484-8488	9.6	1
352	'Crystal Genes' in Metallic Liquids and Glasses. <i>Scientific Reports</i> , 2016 , 6, 23734	4.9	39
351	Characterizing Alnico Alloy by Correlative STEM-EDS Tomography and Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2016 , 22, 668-669	0.5	
350	Ab initio molecular dynamics simulations of short-range order in Zr ₂₀ Al ₈₀ and Cu ₂₀ Al ₈₀ metallic glasses. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 085102	1.8	11
349	Medium-range structure and glass forming ability in Zr ₂₀ Al ₈₀ bulk metallic glasses. <i>Acta Materialia</i> , 2016 , 109, 103-114	8.4	50
348	Magnetic properties of bulk, and rapidly solidified nanostructured (Nd _{1-x} Ce _x) ₂ Fe _{14-y} Co _y B ribbons. <i>Acta Materialia</i> , 2016 , 103, 211-216	8.4	82
347	Effect of AlN Substitutions on the Oxidation Behavior of ZrB ₂ /BiC Composites at 1600°C. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 3389-3397	3.8	9
346	Processing of alnico permanent magnets by advanced directional solidification methods. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 420, 152-157	2.8	8
345	High-Temperature Oxidation of ZrB ₂ /BiC/AlN Composites at 1600°C. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 808-813	3.8	14
344	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	0.5	25

343	The solidification products of levitated Fe ₈₃ B ₁₇ studied by high-energy x-ray diffraction. <i>Journal of Applied Physics</i> , 2016 , 120, 175104	2.5	1
342	Processing of MnBi bulk magnets with enhanced energy product. <i>AIP Advances</i> , 2016 , 6, 056004	1.5	36
341	Thermodynamic database for the Co-Pr system. <i>Data in Brief</i> , 2016 , 6, 492-4	1.2	
340	Magnetic BiMn phase synthesis prediction: First-principles calculation, thermodynamic modeling and nonequilibrium chemical partitioning. <i>Computational Materials Science</i> , 2016 , 120, 117-126	3.2	4
339	The Different Roles of Entropy and Solubility in High Entropy Alloy Stability. <i>ACS Combinatorial Science</i> , 2016 , 18, 596-603	3.9	18
338	Effects of Oxygen Impurities on Glass-Formation Ability in Zr ₂ Cu Alloy. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 9223-9	3.4	15
337	Role of chemically and thermally induced crystal lattice distortion in enhancing the Seebeck coefficient in complex tellurides. <i>CrystEngComm</i> , 2016 , 18, 6632-6639	3.3	2
336	Cooling rates dependence of medium-range order development in Cu _{64.5} Zr _{35.5} metallic glass. <i>Physical Review B</i> , 2015 , 91,	3.3	38
335	Appearance of metastable B2 phase during solidification of Ni ₅₀ Zr ₅₀ alloy: electrostatic levitation and molecular dynamics simulation studies. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 085004	1.8	15
334	Solute-solute correlations responsible for the prepeak in structure factors of undercooled Al-rich liquids: a molecular dynamics study. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 205701	1.8	6
333	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	2.3	25
332	Effect of Temperature on the Nano/Microstructure and Mechanical Behavior of Nanotwinned Ag Films. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 4078-4085	2.3	15
331	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
330	Cerium: an unlikely replacement of dysprosium in high performance Nd-Fe-B permanent magnets. <i>Advanced Materials</i> , 2015 , 27, 2663-7	2.4	224
329	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
328	Discovery of a metastable Al ₂₀ Sm ₄ phase. <i>Applied Physics Letters</i> , 2015 , 106, 101903	3.4	17
327	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
326	Magnetic hardening of Ce _{1+x} Fe _{11-x} Co _y Ti with ThMn ₁₂ structure by melt spinning. <i>Journal of Applied Physics</i> , 2015 , 117, 17A741	2.5	13

325	Optimization of strength and ductility in nanotwinned ultra-fine grained Ag: Twin density and grain orientations. <i>Acta Materialia</i> , 2015 , 96, 378-389	8.4	39
324	Electron Correlation Microscopy: A New Technique for Studying Local Atom Dynamics Applied to a Supercooled Liquid. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1026-33	0.5	13
323	Structural and Ferromagnetic Properties of an Orthorhombic Phase of MnBi Stabilized with Rh Additions. <i>Physical Review Applied</i> , 2015 , 4,	4.3	17
322	Comparative study of local atomic structures in Zr ₂ Cu _x Ni _{1-x} (x = 0, 0.5, 1) metallic glasses. <i>Journal of Applied Physics</i> , 2015 , 118, 195902	2.5	10
321	Microstructural characterization of alnico 9 alloy. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1343-1344	0.5	2
320	A computational study of diffusion in a glass-forming metallic liquid. <i>Scientific Reports</i> , 2015 , 5, 10956	4.9	9
319	Controlled Anisotropic Growth of Co-Fe-P from Co-Fe-O Nanoparticles. <i>Angewandte Chemie</i> , 2015 , 127, 9778-9781	3.6	20
318	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
317	Local structure order in Pd ₇₈ Cu ₆ Si ₁₆ liquid. <i>Scientific Reports</i> , 2015 , 5, 8277	4.9	21
316	Diffusion in a Cu-Zr metallic glass studied by microsecond-scale molecular dynamics simulations. <i>Physical Review B</i> , 2015 , 91,	3.3	26
315	Magnetic Hardening of CeFe ₁₁ Ti and the Effect of TiC Addition. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	3
314	New Alnico Magnets Fabricated From Pre-Alloyed Gas-Atomized Powder Through Diverse Consolidation Techniques. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-3	2	7
313	Bio-corrosion and Cytotoxicity Studies on Novel Zr ₅₅ Co ₃₀ Ti ₁₅ and Cu ₆₀ Zr ₂₀ Ti ₂₀ Metallic Glasses. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 2422-2430 ²⁻³	2.3	10
312	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
311	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		9
310	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, 061905	3.4	43
309	Effect of composition and heat treatment on MnBi magnetic materials. <i>Acta Materialia</i> , 2014 , 79, 374-388.	4	66
308	Structural and magnetic evolution of bimetallic MnAu clusters driven by asymmetric atomic migration. <i>Nano Letters</i> , 2014 , 14, 1362-8	11.5	20

307	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	3.9	4
306	Composition-dependent stability of the medium-range order responsible for metallic glass formation. <i>Acta Materialia</i> , 2014 , 81, 337-344	8.4	22
305	Development of MnBi permanent magnet: Neutron diffraction of MnBi powder. <i>Journal of Applied Physics</i> , 2014 , 115, 17A743	2.5	29
304	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	3.9	1
303	Size-induced chemical and magnetic ordering in individual Fe-Au nanoparticles. <i>ACS Nano</i> , 2014 , 8, 8113-207	20.7	34
302	Exploring the structural complexity of intermetallic compounds by an adaptive genetic algorithm. <i>Physical Review Letters</i> , 2014 , 112, 045502	7.4	78
301	Formation of multilayered scale during the oxidation of NiAlMo alloy. <i>Applied Surface Science</i> , 2014 , 301, 107-111	6.7	23
300	Architecture and magnetism of alnico. <i>Acta Materialia</i> , 2014 , 74, 224-233	8.4	105
299	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
298	Improving the Spatial Resolution of Atomic-Scale EDS Mapping for Chemical Imaging and Quantification of Metallic Alloy Structures. <i>Microscopy and Microanalysis</i> , 2014 , 20, 130-131	0.5	
297	Medium-range Order of Zr ₅₄ Cu ₃₈ Al ₈ Bulk Metallic Glass. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1649, 1		1
296	Glass transition in a marginal glass-forming alloy studied by dynamic mechanical analysis. <i>Journal of Applied Physics</i> , 2014 , 116, 223505	2.5	3
295	Anisotropic hot deformed magnets prepared from Zn-coated MRE-Fe-B ribbon powder (MRE = Nd + Y + Dy). <i>Journal of Applied Physics</i> , 2014 , 115, 17A725	2.5	3
294	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	3.4	19
293	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,	3.3	10
292	Novel processing of high-performance MnBi magnets. <i>Materials Research Express</i> , 2014 , 1, 036108	1.7	20
291	Thermal stability of MnBi magnetic materials. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 064212	1.8	50
290	Solubility extension and phase formation in gas-condensed Co _{100-x} nanoclusters. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	8

289	Advances in Characterization of Non-Rare-Earth Permanent Magnets: Exploring Commercial Alnico Grades 5N and 9. <i>Jom</i> , 2013 , 65, 862-869	2.1	22
288	Systematic mapping of icosahedral short-range order in a melt-spun Zr ₃₆ Cu ₆₄ metallic glass. <i>Physical Review Letters</i> , 2013 , 110, 205505	7.4	79
287	Nucleation-Suppressed Phase Stabilization in Fe ₃ Au Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 24071-24078	3.8	7
286	Phase and Elemental Distributions in Alnico Magnetic Materials. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3314-3317	2	25
285	One-pot synthesis of urchin-like FePd-Fe ₃ O ₄ and their conversion into exchange-coupled L1(0)-FePd-Fe nanocomposite magnets. <i>Nano Letters</i> , 2013 , 13, 4975-9	11.5	82
284	Combinatorial exploration of rare-earth-free permanent magnets: Magnetic and microstructural properties of Fe-Co-W thin films. <i>Applied Physics Letters</i> , 2013 , 102, 022419	3.4	27
283	Structure of molten Al and eutectic Al ₈₁ Si alloy studied by neutron diffraction. <i>Journal of Non-Crystalline Solids</i> , 2013 , 361, 63-69	3.9	17
282	Superheat-dependent microstructure of molten Al ₈₁ Si alloys of different compositions studied by small angle neutron scattering. <i>Journal of Alloys and Compounds</i> , 2013 , 550, 9-22	5.7	54
281	Atomic dynamics in molten AlCu alloys of different compositions and at different temperatures by cold neutron scattering. <i>Physica B: Condensed Matter</i> , 2013 , 412, 50-60	2.8	18
280	Formation of non-equilibrium Fe-Au solid solutions in nanoclusters. <i>Applied Physics Letters</i> , 2013 , 102, 243103	3.4	12
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