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List of Publications by Year in descending order

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48 papers	2,533 citations	218677 26 h-index	206112 48 g-index
48 all docs	48 docs citations	48 times ranked	2382 citing authors

#	Article	IF	Citations
1	Power-law scaling and fractal nature of medium-range order in metallic glasses. Nature Materials, 2009, 8, 30-34.	27.5	414
2	Formation of Cuâ€“Zrâ€“Al bulk metallic glass composites with improved tensile properties. Acta Materialia, 2011, 59, 2928-2936.	7.9	290
3	Optimum glass formation at off-eutectic composition and its relation to skewed eutectic coupled zone in the La based Laâ€“Alâ€“(Cu,Ni) pseudo ternary system. Acta Materialia, 2003, 51, 4551-4561.	7.9	169
4	Scallop formation and dissolution of Cuâ€“Sn intermetallic compound during solder reflow. Journal of Applied Physics, 2002, 91, 3312-3317.	2.5	138
5	First-principles and machine learning predictions of elasticity in severely lattice-distorted high-entropy alloys with experimental validation. Acta Materialia, 2019, 181, 124-138.	7.9	113
6	Transformation-induced plasticity in bulk metallic glass composites evidenced by in-situ neutron diffraction. Acta Materialia, 2017, 124, 478-488.	7.9	93
7	Crystallographic texture in an additively manufactured nickel-base superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 684, 47-53.	5.6	89
8	Strategy for pinpointing the best glass-forming alloys. Applied Physics Letters, 2005, 86, 191906.	3.3	88
9	Diffraction and single-crystal elastic constants of Inconel 625 at room and elevated temperatures determined by neutron diffraction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 674, 406-412.	5.6	86
10	Ductilizing Bulk Metallic Glass Composite by Tailoring Stacking Fault Energy. Physical Review Letters, 2012, 109, 245506.	7.8	85
11	Efficient local atomic packing in metallic glasses and its correlation with glass-forming ability. Physical Review B, 2009, 80, .	3.2	65
12	F-enhanced morphological and thermal stability of NiSi films on BF2+-implanted Si(001). Applied Physics Letters, 2002, 81, 5138-5140.	3.3	59
13	Absence of dynamic strain aging in an additively manufactured nickel-base superalloy. Nature Communications, 2018, 9, 2083.	12.8	59
14	Effects of proton irradiation on nanocluster precipitation in ferritic steel containing fcc alloying additions. Acta Materialia, 2012, 60, 3034-3046.	7.9	58
15	Unidirectional solidification of Zn-rich Znâ€“Cu peritectic alloysâ€”I. Microstructure selection. Acta Materialia, 2000, 48, 419-431.	7.9	53
16	Nearest-neighbor coordination and chemical ordering in multicomponent bulk metallic glasses. Applied Physics Letters, 2007, 90, 211908.	3.3	46
17	Ring size distribution in silicate glasses revealed by neutron scattering first sharp diffraction peak analysis. Journal of Non-Crystalline Solids, 2019, 516, 71-81.	3.1	43
18	On secondary dendrite arm coarsening in peritectic solidification. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 390, 52-62.	5.6	42

#	Article	IF	Citations
19	Computational thermodynamics to identify Zrâ€“Tiâ€“Niâ€“Cuâ€“Al alloys with high glass-forming ability. Acta Materialia, 2006, 54, 2975-2982.	7.9	42
20	Temperature-dependent elastic anisotropy and mesoscale deformation in a nanostructured ferritic alloy. Nature Communications, 2014, 5, 5178.	12.8	42
21	Unidirectional solidification of Zn-rich Znâ€“Cu peritectic alloysâ€”II. Microstructural length scales. Acta Materialia, 2000, 48, 1741-1751.	7.9	36
22	Nanoscale Solute Partitioning in Bulk Metallic Glasses. Advanced Materials, 2009, 21, 305-308.	21.0	36
23	Stress relaxation in a nickel-base superalloy at elevated temperatures with in situ neutron diffraction characterization: Application to additive manufacturing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 714, 75-83.	5.6	35
24	Bulkier glass formability enhanced by minor alloying additions. Applied Physics Letters, 2005, 87, 171914.	3.3	33
25	Unusual thermal stability of nano-structured ferritic alloys. Journal of Alloys and Compounds, 2012, 529, 96-101.	5.5	30
26	Effect of weak convection on lamellar spacing of eutectics. Acta Materialia, 1998, 46, 3203-3210.	7.9	29
27	Competitive formation of glasses and glassâ€“matrix composites. Intermetallics, 2007, 15, 253-259.	3.9	29
28	Distilling nanoscale heterogeneity of amorphous silicon using tip-enhanced Raman spectroscopy (TERS) via multiresolution manifold learning. Nature Communications, 2021, 12, 578.	12.8	25
29	Competitive formation of ternary metallic glasses. Acta Materialia, 2006, 54, 1927-1934.	7.9	21
30	Crystallographic orientation-dependent strain hardening in a precipitation-strengthened Al-Cu alloy. Acta Materialia, 2021, 205, 116577.	7.9	21
31	A Combined Variable-Temperature Neutron Diffraction and Thermogravimetric Analysis Study on a Promising Oxygen Electrode, SrCo_{0.9}Nb_{0.1}O_{3â^'Î´}, for Reversible Solid Oxide Fuel Cells. ACS Applied Materials & Interfaces, 2017, 9, 34855-34864.	8.0	18
32	Retarder effect on hydrating oil well cements investigated using in situ neutron/X-ray pair distribution function analysis. Cement and Concrete Research, 2019, 126, 105920.	11.0	18
33	Kinetics of NiSi-to-NiSi2 transformation and morphological evolution in nickel silicide thin films on Si(001). Acta Materialia, 2006, 54, 4905-4911.	7.9	16
34	Structural evolution of fused silica below the glass-transition temperature revealed by in-situ neutron total scattering. Journal of Non-Crystalline Solids, 2020, 528, 119760.	3.1	15
35	Identifying bulk metallic glass-formers from multi-component eutectics. Intermetallics, 2007, 15, 1122-1126.	3.9	14
36	Texture Evolution and Phase Transformation in Titanium Investigated by In-Situ Neutron Diffraction. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 1444-1448.	2.2	14

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37	Unidirectional solidification of a Zn-rich Znâ€“2.17 wt%Cu hypo-peritectic alloy. Science and Technology of Advanced Materials, 2001, 2, 127-130.	6.1	13
38	Heterogeneous nucleation catastrophe on dislocations in superheated crystals. Journal of Physics Condensed Matter, 2000, 12, 9123-9128.	1.8	10
39	Solute redistribution and growth velocity response in directional solidification process. Journal of Crystal Growth, 1996, 169, 170-174.	1.5	9
40	Unidirectional solidification of Alâ€“Cu eutectic with the accelerated crucible rotation technique. Journal of Crystal Growth, 1998, 194, 398-405.	1.5	8
41	In-situ neutron scattering study of crystallization in a Zr-based bulk metallic glass. Applied Physics A: Materials Science and Processing, 2010, 99, 537-542.	2.3	7
42	Direct synchrotron x-ray measurements of local strain fields in elastically and plastically bent metallic glasses. Intermetallics, 2015, 67, 132-137.	3.9	6
43	An approximate method to calculate the solute redistribution in directional solidification specimen with limited length. Journal of Crystal Growth, 1995, 156, 467-472.	1.5	5
44	Distinct Recrystallization Pathways in a Cold-Rolled Al-2%Mg Alloy Evidenced by In-Situ Neutron Diffraction. Quantum Beam Science, 2018, 2, 17.	1.2	3
45	Time and frequency dependent mechanical properties of LaCoO3-based perovskites: Neutron diffraction and domain mobility. Journal of Applied Physics, 2018, 124, .	2.5	3
46	Observation of the periodic fluctuant dendritic structure in an Alâ€“38wt% Cu hypereutectic alloy processed by ACRT-B method. Journal of Crystal Growth, 2000, 210, 777-782.	1.5	2
47	Discontinuous precipitation initiated at interphase boundaries in a Zn-rich Zn-6.3 at.% Ag alloy. Philosophical Magazine Letters, 2000, 80, 467-475.	1.2	2
48	Suppression of crystallization in a Ca-based bulk metallic glass by compression. Journal of Alloys and Compounds, 2018, 765, 595-600.	5.5	1