Dong

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8690973/publications.pdf

Version: 2024-02-01

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	Crystallographic orientation-dependent strain hardening in a precipitation-strengthened Al-Cu alloy. Acta Materialia, 2021, 205, 116577.	7.9	21
2	Distilling nanoscale heterogeneity of amorphous silicon using tip-enhanced Raman spectroscopy (TERS) via multiresolution manifold learning. Nature Communications, 2021, 12, 578.	12.8	25
3	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
4	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
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	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
7	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
8	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
9	Time and frequency dependent mechanical properties of LaCoO3-based perovskites: Neutron diffraction and domain mobility. Journal of Applied Physics, 2018, 124, .	2.5	3
10	Suppression of crystallization in a Ca-based bulk metallic glass by compression. Journal of Alloys and Compounds, 2018, 765, 595-600.	5.5	1
11	Absence of dynamic strain aging in an additively manufactured nickel-base superalloy. Nature Communications, 2018, 9, 2083.	12.8	59
12	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
13	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
14	Transformation-induced plasticity in bulk metallic glass composites evidenced by in-situ neutron diffraction. Acta Materialia, 2017, 124, 478-488.	7.9	93
15	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
16	Direct synchrotron x-ray measurements of local strain fields in elastically and plastically bent metallic glasses. Intermetallics, 2015, 67, 132-137.	3.9	6
17	Temperature-dependent elastic anisotropy and mesoscale deformation in a nanostructured ferritic alloy. Nature Communications, 2014, 5, 5178.	12.8	42
18	Ductilizing Bulk Metallic Glass Composite by Tailoring Stacking Fault Energy. Physical Review Letters, 2012, 109, 245506.	7.8	85

#	Article	IF	Citations
19	Unusual thermal stability of nano-structured ferritic alloys. Journal of Alloys and Compounds, 2012, 529, 96-101.	5.5	30
20	Effects of proton irradiation on nanocluster precipitation in ferritic steel containing fcc alloying additions. Acta Materialia, 2012, 60, 3034-3046.	7.9	58
21	Formation of Cuâ€“Zrâ€“Al bulk metallic glass composites with improved tensile properties. Acta Materialia, 2011, 59, 2928-2936.	7.9	290
22	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
23	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
24	Efficient local atomic packing in metallic glasses and its correlation with glass-forming ability. Physical Review B, 2009, 80, .	3.2	65
25	Nanoscale Solute Partitioning in Bulk Metallic Glasses. Advanced Materials, 2009, 21, 305-308.	21.0	36
26	Power-law scaling and fractal nature of medium-range order in metallic glasses. Nature Materials, 2009, 8, 30-34.	27.5	414
27	Nearest-neighbor coordination and chemical ordering in multicomponent bulk metallic glasses. Applied Physics Letters, 2007, 90, 211908.	3.3	46
28	Competitive formation of glasses and glassâ€“matrix composites. Intermetallics, 2007, 15, 253-259.	3.9	29
29	Identifying bulk metallic glass-formers from multi-component eutectics. Intermetallics, 2007, 15, 1122-1126.	3.9	14
30	Competitive formation of ternary metallic glasses. Acta Materialia, 2006, 54, 1927-1934.	7.9	21
31	Computational thermodynamics to identify Zrâ€“Tiâ€“Niâ€“Cuâ€“Al alloys with high glass-forming ability. Acta Materialia, 2006, 54, 2975-2982.	7.9	42
32	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
33	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
34	Bulkier glass formability enhanced by minor alloying additions. Applied Physics Letters, 2005, 87, 171914.	3.3	33
35	Strategy for pinpointing the best glass-forming alloys. Applied Physics Letters, 2005, 86, 191906.	3.3	88
36	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

#	Article	IF	Citations
37	F-enhanced morphological and thermal stability of NiSi films on BF2+-implanted Si(001). Applied Physics Letters, 2002, 81, 5138-5140.	3.3	59
38	Scallop formation and dissolution of Cuâ€“Sn intermetallic compound during solder reflow. Journal of Applied Physics, 2002, 91, 3312-3317.	2.5	138
39	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
40	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
41	Unidirectional solidification of Zn-rich Znâ€“Cu peritectic alloysâ€”II. Microstructural length scales. Acta Materialia, 2000, 48, 1741-1751.	7.9	36
42	Unidirectional solidification of Zn-rich Znâ€“Cu peritectic alloysâ€”I. Microstructure selection. Acta Materialia, 2000, 48, 419-431.	7.9	53
43	Heterogeneous nucleation catastrophe on dislocations in superheated crystals. Journal of Physics Condensed Matter, 2000, 12, 9123-9128.	1.8	10
44	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
45	Unidirectional solidification of Alâ€“Cu eutectic with the accelerated crucible rotation technique. Journal of Crystal Growth, 1998, 194, 398-405.	1.5	8
46	Effect of weak convection on lamellar spacing of eutectics. Acta Materialia, 1998, 46, 3203-3210.	7.9	29
47	Solute redistribution and growth velocity response in directional solidification process. Journal of Crystal Growth, 1996, 169, 170-174.	1.5	9
48	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