Mo Li

List of Publications by Year
in descending order

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Version: 2024-02-01

44	919	567281	454955
papers	citations	15 h-index	30 g-index

45	45	45	832
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Atomic scale characterization of shear bands in an amorphous metal. Applied Physics Letters, 2006, 88, 241903.	3.3	139
2	Ab initiocalculations of second-, third-, and fourth-order elastic constants for single crystals. Physical Review B, 2009, 79, .	3.2	117
3	Instability of metastable solid solutions and the crystal to glass transition. Physical Review Letters, 1993, 70, 1120-1123.	7.8	78
4	Disorder-induced amorphization. Journal of Nuclear Materials, 1997, 251, 89-97.	2.7	72
5	Free Volume Evolution in Metallic Glasses Subjected to Mechanical Deformation. Materials Transactions, 2007, 48, 1816-1821.	1.2	54
6	Atomistic simulations of correlations between volumetric change and shear softening in amorphous metals. Physical Review B, 2007, 75, .	3.2	35
7	The crystal to glass transformation in relation to melting. Journal of Non-Crystalline Solids, 1993, 156-158, 481-492.	3.1	34
8	Interpreting the change in shear band inclination angle in metallic glasses. Applied Physics Letters, 2008, 93, .	3.3	33
9	Defect-induced topological order-to-disorder transitions in two-dimensional binary substitutional solid solutions:â€ƒA molecular dynamics study. Physical Review B, 2000, 62, 13979-13995.	3.2	29
10	A constitutive theory and modeling on deviation of shear band inclination angles in bulk metallic glasses. Journal of Materials Research, 2009, 24, 2688-2696.	2.6	27
11	Topological and atomic scale characterization of grain boundary networks in polycrystalline and nanocrystalline materials. Progress in Materials Science, 2011, 56, 864-899.	32.8	26
12	Application of the Debye function to systems of crystallites. Philosophical Magazine, 2010, 90, 3891-3905.	1.6	24
13	Geometric methods for microstructure rendition and atomic characterization of poly- and nano-crystalline materials. Philosophical Magazine, 2010, 90, 2191-2222.	1.6	24
14	Interdiffusion cross crystal-amorphous interface: An atomistic simulation. Acta Materialia, 2016, 112, 378-389.	7.9	21
15	Atomistic calculation of internal stress in nanoscale polycrystalline materials. Philosophical Magazine, 2012, 92, 3064-3083.	1.6	16
16	Key factors affecting mechanical behavior of metallic glass nanowires. Scientific Reports, 2017, 7, 41365.	3.3	16
17	Comparative Study of Elastoplastic Constitutive Models for Deformation of Metallic Glasses. Metals, 2012, 2, 488-507.	2.3	14
18	Introduction to a New Journal: Applied System Innovation. Applied System Innovation, 2018, 1, 1.	4.6	14

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19	Assessing the shear band velocity in metallic glasses using a coupled thermo-mechanical model. Philosophical Magazine Letters, 2011, 91, 705-712.	1.2	13
20	Nonlinear theoretical formulation of elastic stability criterion of crystal solids. Physical Review B, 2012, 85, .	3.2	13
21	Highly choreographed atomic motion and mechanism of interface amorphization. Acta Materialia, 2017, 125, 69-80.	7.9	13
22	Crystallization of Zr₅₅Cu₃₀Al₁₀Ni₅ Bulk Metallic Glass in Laser Welding: Simulation and Experiment. Advanced Engineering Materials, 2015, 17, 483-490.	3.5	12
23	Symmetry breaking and other nonlinear elastic responses of metallic glasses subject to uniaxial loading. Journal of Applied Physics, 2013, 113, 213515.	2.5	11
24	Laser Welding of Zr₄₁Ti₁₄Cu₁₂Ni₁₀Be₂₃ Bulk Metallic Glass: Experiment and Temperature Field Simulation. Advanced Engineering Materials, 2013, 15, 407-413.	3.5	11
25	Hierarchical dislocation nucleation controlled by internal stress in nanocrystalline copper. Applied Physics Letters, 2013, 102, 241910.	3.3	10
26	Existence of fractal packing in metallic glasses: Molecular dynamics simulations of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">u</mml:mi><mml:mn>46</mml:mn></mml:msub><mml:mi mathvariant="normal">Z</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mn>54</mml:mn></mml:msub></mml:mrow></mml:math>. Phys	3.2	8
27	Atomistic modeling of nanocrystalline ferromagnets. Journal of Applied Physics, 2003, 93, 7652-7654.	2.5	6
28	A theory for polymorphic melting in binary solid solutions. Journal of Materials Research, 2011, 26, 997-1005.	2.6	6
29	Manufacturing process and microstructure of copper-coated aluminum wires. International Journal of Minerals, Metallurgy and Materials, 2015, 22, 190-196.	4.9	6
30	Regularities of liquid potassium at different temperatures. AIP Advances, 2019, 9, .	1.3	6
31	Development of one-dimensional periodic packing in metallic glass spheres. Scripta Materialia, 2020, 177, 132-136.	5.2	6
32	Hydrostatic pressure effect on metallic glasses: A theoretical prediction. Journal of Applied Physics, 2019, 126, 145901.	2.5	5
33	Localization and delocationzation of surface disordering in surface mediated melting. Physical Review B, 2021, 104, .	3.2	5
34	Local shear dominance in equation of state of metallic glass under hydrostatic pressure. Journal of Applied Physics, 2018, 124, 165901.	2.5	3
35	Missing information and data fidelity in digital microstructure acquisition. Acta Materialia, 2019, 173, 262-269.	7.9	3
36	From first to second order nonequilibrium phase transition in crystal-amorphous interface: Effects of spatial and kinetic constraints. Journal of Alloys and Compounds, 2021, 850, 156841.	5.5	3

#	Article	IF	Citations
37	A mean-field model for amorphization in crystalline solid solutions. Journal of Applied Physics, 2011, 109, 103507.	2.5	2
38	Development of shear bands in annular shear granular flows. Materials Research Society Symposia Proceedings, 2002, 759, 1.	0.1	1
39	Characterization of magnetization processes in nanostructured rare earth-transition metal films. Journal of Applied Physics, 2003, 93, 8116-8118.	2.5	1
40	Nonlinear stress-strain relations for crystalline solids in initially deformed state. Journal of Applied Physics, 2012, 112, .	2.5	1
41	Spontaneous solid-solid interface melting driven by concentration gradient. Journal of Chemical Physics, 2019, 151, 074501.	3.0	1
42	Macroscopic/Mesoscopic Computational Materials Science Modeling and Engineering. Mathematical Problems in Engineering, 2015, 2015, 1-1.	1.1	0
43	Innovations of systems design. Advances in Mechanical Engineering, 2017, 9, 168781401769369.	1.6	0
44	10.1063/1.4811791.1. , 2013, , .		0