

Mo Li

List of Publications by Year in descending order

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50
papers

1,531
citations

430874

18
h-index

302126

39
g-index

50
all docs

50
docs citations

50
times ranked

1761
citing authors

#	ARTICLE	IF	CITATIONS
1	High Dielectric Performance of Polymer Composite Films Induced by a Percolating Interparticle Barrier Layer. <i>Advanced Materials</i> , 2007, 19, 1418-1422.	21.0	373
2	Calculation of solid-liquid interfacial free energy: A classical nucleation theory based approach. <i>Journal of Chemical Physics</i> , 2006, 124, 124707.	3.0	158
3	<i>Ab initio</i> calculations of second-, third-, and fourth-order elastic constants for single crystals. <i>Physical Review B</i> , 2009, 79, .	3.2	117
4	Instability of metastable solid solutions and the crystal to glass transition. <i>Physical Review Letters</i> , 1993, 70, 1120-1123.	7.8	78
5	Enhanced Initial Permeability and Dielectric Constant in a Double- Percolating Ni _{0.3} Zn _{0.7} Fe _{1.95} O ₄ -Ni-Polymer Composite. <i>Advanced Functional Materials</i> , 2005, 15, 1100-1103.	14.9	68
6	Topological and statistical properties of a constrained Voronoi tessellation. <i>Philosophical Magazine</i> , 2009, 89, 349-374.	1.6	62
7	Assessing the critical sizes for shear band formation in metallic glasses from molecular dynamics simulation. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	61
8	Ring-diffusion mediated homogeneous melting in the superheating regime. <i>Physical Review B</i> , 2008, 77, .	3.2	57
9	Free Volume Evolution in Metallic Glasses Subjected to Mechanical Deformation. <i>Materials Transactions</i> , 2007, 48, 1816-1821.	1.2	54
10	Toughen and harden metallic glass through designing statistical heterogeneity. <i>Scripta Materialia</i> , 2016, 113, 10-13.	5.2	45
11	Two-zone heterogeneous structure within shear bands of a bulk metallic glass. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	43
12	Correlation between corrosion performance and surface wettability in ZrTiCuNiBe bulk metallic glasses. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	33
13	Understanding colossal barocaloric effects in plastic crystals. <i>Nature Communications</i> , 2020, 11, 4190.	12.8	30
14	A constitutive theory and modeling on deviation of shear band inclination angles in bulk metallic glasses. <i>Journal of Materials Research</i> , 2009, 24, 2688-2696.	2.6	27
15	Mesoscopic theory of shear banding and crack propagation in metallic glasses. <i>Physical Review B</i> , 2009, 80, .	3.2	25
16	Rethinking Lindemann criterion: A molecular dynamics simulation of surface mediated melting. <i>Acta Materialia</i> , 2020, 193, 280-290.	7.9	24
17	Anisotropic crystal-melt interfacial energy and stiffness of aluminum. <i>Journal of Materials Research</i> , 2015, 30, 1827-1835.	2.6	21
18	Interdiffusion cross crystal-amorphous interface: An atomistic simulation. <i>Acta Materialia</i> , 2016, 112, 378-389.	7.9	21

#	ARTICLE	IF	CITATIONS
19	Chemical segregation in metallic glass nanowires. <i>Journal of Chemical Physics</i> , 2014, 141, 194701.	3.0	16
20	Key factors affecting mechanical behavior of metallic glass nanowires. <i>Scientific Reports</i> , 2017, 7, 41365.	3.3	16
21	Changes in short- and medium-range order in metallic liquids during undercooling. <i>MRS Bulletin</i> , 2020, 45, 943-950.	3.5	14
22	Assessing the shear band velocity in metallic glasses using a coupled thermo-mechanical model. <i>Philosophical Magazine Letters</i> , 2011, 91, 705-712.	1.2	13
23	Highly choreographed atomic motion and mechanism of interface amorphization. <i>Acta Materialia</i> , 2017, 125, 69-80.	7.9	13
24	Atomistic simulation of a NiZr model metallic glass under hydrostatic pressure. <i>Applied Physics Letters</i> , 2009, 94, 051901.	3.3	12
25	Equation of state and topological transitions in amorphous solids under hydrostatic compression. <i>Journal of Applied Physics</i> , 2010, 108, 113510.	2.5	11
26	Symmetry breaking and other nonlinear elastic responses of metallic glasses subject to uniaxial loading. <i>Journal of Applied Physics</i> , 2013, 113, 213515.	2.5	11
27	Processing dependence of mechanical properties of metallic glass nanowires. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	11
28	Melting of bcc crystal Ta without the Lindemann criterion. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 095402.	1.8	11
29	From brittle to ductile transition: The influence of oxygen on mechanical properties of metallic glasses. <i>Journal of Alloys and Compounds</i> , 2021, 876, 160023.	5.5	11
30	Crystal-melt coexistence in fcc and bcc metals: a molecular-dynamics study of kinetic coefficients. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2021, 29, 065016.	2.0	10
31	Equation of state of liquid Indium under high pressure. <i>AIP Advances</i> , 2015, 5, .	1.3	8
32	Thermodynamic properties of liquid sodium under high pressure. <i>AIP Advances</i> , 2017, 7, .	1.3	7
33	Electronic and transport properties of zigzag phosphorene nanoribbons with nonmetallic atom terminations. <i>RSC Advances</i> , 2020, 10, 1400-1409.	3.6	7
34	Crystal-melt coexistence in FCC and BCC metals: A molecular-dynamics study of crystal-melt interface free energies. <i>Materialia</i> , 2021, 15, 100962.	2.7	7
35	A theory for polymorphic melting in binary solid solutions. <i>Journal of Materials Research</i> , 2011, 26, 997-1005.	2.6	6
36	Local structural mechanism for frozen-in dynamics in metallic glasses. <i>Physical Review B</i> , 2018, 97, .	3.2	6

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37	Regularities of liquid potassium at different temperatures. AIP Advances, 2019, 9, .	1.3	6
38	Development of one-dimensional periodic packing in metallic glass spheres. Scripta Materialia, 2020, 177, 132-136.	5.2	6
39	Hydrostatic pressure effect on metallic glasses: A theoretical prediction. Journal of Applied Physics, 2019, 126, 145901.	2.5	5
40	Effects of oxygen on local atomic order and diffusion properties in Al-Ni glass-forming liquids. Journal of Alloys and Compounds, 2021, 881, 160521.	5.5	5
41	Localization and delocationization of surface disordering in surface mediated melting. Physical Review B, 2021, 104, .	3.2	5
42	Configurational Frozen Defects, Random Strains and Landau Theory of Crystals to Glass Transition. Materials Science Forum, 1995, 179-181, 855-0.	0.3	4
43	Crystal–melt interface kinetic behaviors of iron. AIP Advances, 2021, 11, 035241.	1.3	4
44	Nonlinearity acoustic parameters from equation of state of liquid sodium under pressure. AIP Advances, 2017, 7, 095322.	1.3	3
45	A mean-field model for amorphization in crystalline solid solutions. Journal of Applied Physics, 2011, 109, 103507.	2.5	2
46	Structural characteristics in deformation mechanism transformation in nanoscale metallic glasses. Journal of Physics Condensed Matter, 2019, 31, 455401.	1.8	1
47	Spontaneous solid-solid interface melting driven by concentration gradient. Journal of Chemical Physics, 2019, 151, 074501.	3.0	1
48	Pure shear deformation and its induced mechanical responses in metallic glasses. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20190486.	2.1	1
49	Linear isotherm regularities of liquid gallium under pressure. AIP Advances, 2021, 11, 125204.	1.3	1
50	From deformation localization to melting and chemical segregation in metallic glass nanoparticles under high strain rate. Journal of Applied Physics, 2020, 128, 115105.	2.5	0