

# Mo Li

## List of Publications by Year in descending order

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44  
papers

919  
citations

567281

15  
h-index

454955

30  
g-index

45  
all docs

45  
docs citations

45  
times ranked

832  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Localization and delocalization of surface disordering in surface mediated melting. Physical Review B, 2021, 104, .	3.2	5
3	Development of one-dimensional periodic packing in metallic glass spheres. Scripta Materialia, 2020, 177, 132-136.	5.2	6
4	Regularities of liquid potassium at different temperatures. AIP Advances, 2019, 9, .	1.3	6
5	Hydrostatic pressure effect on metallic glasses: A theoretical prediction. Journal of Applied Physics, 2019, 126, 145901.	2.5	5
6	Spontaneous solid-solid interface melting driven by concentration gradient. Journal of Chemical Physics, 2019, 151, 074501.	3.0	1
7	Missing information and data fidelity in digital microstructure acquisition. Acta Materialia, 2019, 173, 262-269.	7.9	3
8	Local shear dominance in equation of state of metallic glass under hydrostatic pressure. Journal of Applied Physics, 2018, 124, 165901.	2.5	3
9	Local shear dominance in equation of state of metallic glasses: Molecular dynamics simulations of $C_{46}Z_{54}$ . Phys	3.2	8
10	Introduction to a New Journal: Applied System Innovation. Applied System Innovation, 2018, 1, 1.	4.6	14
11	Key factors affecting mechanical behavior of metallic glass nanowires. Scientific Reports, 2017, 7, 41365.	3.3	16
12	Highly choreographed atomic motion and mechanism of interface amorphization. Acta Materialia, 2017, 125, 69-80.	7.9	13
13	Innovations of systems design. Advances in Mechanical Engineering, 2017, 9, 168781401769369.	1.6	0
14	Interdiffusion cross crystal-amorphous interface: An atomistic simulation. Acta Materialia, 2016, 112, 378-389.	7.9	21
15	Crystallization of $Zr_{55}Cu_{30}Al_{10}Ni_5$ Bulk Metallic Glass in Laser Welding: Simulation and Experiment. Advanced Engineering Materials, 2015, 17, 483-490.	3.5	12
16	Macroscopic/Mesoscopic Computational Materials Science Modeling and Engineering. Mathematical Problems in Engineering, 2015, 2015, 1-1.	1.1	0
17	Manufacturing process and microstructure of copper-coated aluminum wires. International Journal of Minerals, Metallurgy and Materials, 2015, 22, 190-196.	4.9	6
18	Symmetry breaking and other nonlinear elastic responses of metallic glasses subject to uniaxial loading. Journal of Applied Physics, 2013, 113, 213515.	2.5	11

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19	Laser Welding of Zr <sub>41</sub> Ti <sub>14</sub> Cu <sub>12</sub> Ni <sub>10</sub> Be <sub>23</sub> Bulk Metallic Glass: Experiment and Temperature Field Simulation. <i>Advanced Engineering Materials</i> , 2013, 15, 407-413.	3.5	11
20	Hierarchical dislocation nucleation controlled by internal stress in nanocrystalline copper. <i>Applied Physics Letters</i> , 2013, 102, 241910.	3.3	10
21	10.1063/1.4811791.1., 2013, , .		0
22	Nonlinear stress-strain relations for crystalline solids in initially deformed state. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	1
23	Atomistic calculation of internal stress in nanoscale polycrystalline materials. <i>Philosophical Magazine</i> , 2012, 92, 3064-3083.	1.6	16
24	Nonlinear theoretical formulation of elastic stability criterion of crystal solids. <i>Physical Review B</i> , 2012, 85, .	3.2	13
25	Comparative Study of Elastoplastic Constitutive Models for Deformation of Metallic Glasses. <i>Metals</i> , 2012, 2, 488-507.	2.3	14
26	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
27	A mean-field model for amorphization in crystalline solid solutions. <i>Journal of Applied Physics</i> , 2011, 109, 103507.	2.5	2
28	A theory for polymorphic melting in binary solid solutions. <i>Journal of Materials Research</i> , 2011, 26, 997-1005.	2.6	6
29	Topological and atomic scale characterization of grain boundary networks in polycrystalline and nanocrystalline materials. <i>Progress in Materials Science</i> , 2011, 56, 864-899.	32.8	26
30	Application of the Debye function to systems of crystallites. <i>Philosophical Magazine</i> , 2010, 90, 3891-3905.	1.6	24
31	Geometric methods for microstructure rendition and atomic characterization of poly- and nano-crystalline materials. <i>Philosophical Magazine</i> , 2010, 90, 2191-2222.	1.6	24
32	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
33	<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
34	Interpreting the change in shear band inclination angle in metallic glasses. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	33
35	Atomistic simulations of correlations between volumetric change and shear softening in amorphous metals. <i>Physical Review B</i> , 2007, 75, .	3.2	35
36	Free Volume Evolution in Metallic Glasses Subjected to Mechanical Deformation. <i>Materials Transactions</i> , 2007, 48, 1816-1821.	1.2	54

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37	Atomic scale characterization of shear bands in an amorphous metal. Applied Physics Letters, 2006, 88, 241903.	3.3	139
38	Atomistic modeling of nanocrystalline ferromagnets. Journal of Applied Physics, 2003, 93, 7652-7654.	2.5	6
39	Characterization of magnetization processes in nanostructured rare earth-transition metal films. Journal of Applied Physics, 2003, 93, 8116-8118.	2.5	1
40	Development of shear bands in annular shear granular flows. Materials Research Society Symposia Proceedings, 2002, 759, 1.	0.1	1
41	Defect-induced topological order-to-disorder transitions in two-dimensional binary substitutional solid solutions: a molecular dynamics study. Physical Review B, 2000, 62, 13979-13995.	3.2	29
42	Disorder-induced amorphization. Journal of Nuclear Materials, 1997, 251, 89-97.	2.7	72
43	The crystal to glass transformation in relation to melting. Journal of Non-Crystalline Solids, 1993, 156-158, 481-492.	3.1	34
44	Instability of metastable solid solutions and the crystal to glass transition. Physical Review Letters, 1993, 70, 1120-1123.	7.8	78