

Yun-Jiang Wang

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77
papers

1,252
citations

22
h-index

31
g-index

79
ext. papers

1,652
ext. citations

4.3
avg, IF

5.03
L-index

#	Paper	IF	Citations
77	Characteristics of stress relaxation kinetics of La 60 Ni 15 Al 25 bulk metallic glass. <i>Acta Materialia</i> , 2015 , 98, 43-50	8.4	74
76	A comparison of the ideal strength between L12Co3(Al,W) and Ni3Al under tension and shear from first-principles calculations. <i>Applied Physics Letters</i> , 2009 , 94, 261909	3.4	62
75	Time, stress, and temperature-dependent deformation in nanostructured copper: Stress relaxation tests and simulations. <i>Acta Materialia</i> , 2016 , 108, 252-263	8.4	45
74	Transition from stress-driven to thermally activated stress relaxation in metallic glasses. <i>Physical Review B</i> , 2016 , 94,	3.3	44
73	Influence of the alloying element Re on the ideal tensile and shear strength of γ -Ni3Al. <i>Scripta Materialia</i> , 2009 , 61, 197-200	5.6	44
72	Transition of creep mechanism in nanocrystalline metals. <i>Physical Review B</i> , 2011 , 84,	3.3	44
71	Prediction of pressure-promoted thermal rejuvenation in metallic glasses. <i>Npj Computational Materials</i> , 2016 , 2,	10.9	44
70	Fast surface dynamics enabled cold joining of metallic glasses. <i>Science Advances</i> , 2019 , 5, eaax7256	14.3	44
69	The alloying mechanisms of Re, Ru in the quaternary Ni-based superalloys interface: A first principles calculation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 490, 242-249	5.3	35
68	Time-, stress-, and temperature-dependent deformation in nanostructured copper: Creep tests and simulations. <i>Journal of the Mechanics and Physics of Solids</i> , 2016 , 94, 191-206	5	35
67	Effect of water stress on leaf photosynthesis, chlorophyll content, and growth of oriental lily. <i>Russian Journal of Plant Physiology</i> , 2011 , 58, 844-850	1.6	32
66	Novel atomic-scale mechanism of incipient plasticity in a chemically complex CrCoNi medium-entropy alloy associated with inhomogeneity in local chemical environment. <i>Acta Materialia</i> , 2020 , 194, 283-294	8.4	32
65	Self-sharpening tungsten high-entropy alloy. <i>Acta Materialia</i> , 2020 , 186, 257-266	8.4	32
64	Grain Size Dependence of Creep in Nanocrystalline Copper by Molecular Dynamics. <i>Materials Transactions</i> , 2012 , 53, 156-160	1.3	31
63	Mechanical and electronic properties of 5d transition metal diborides MB2 (M=Re, W, Os, Ru). <i>Journal of Applied Physics</i> , 2009 , 105, 083539	2.5	31
62	Studying the elastic properties of nanocrystalline copper using a model of randomly packed uniform grains. <i>Computational Materials Science</i> , 2013 , 79, 56-62	3.2	29
61	Entropic effect on creep in nanocrystalline metals. <i>Acta Materialia</i> , 2013 , 61, 3866-3871	8.4	26

60	Assessing the utility of structure in amorphous materials. <i>Journal of Chemical Physics</i> , 2019 , 150, 114502, 3.9	25
59	Structural Parameter of Orientational Order to Predict the Boson Vibrational Anomaly in Glasses. <i>Physical Review Letters</i> , 2019 , 122, 015501	7.4 25
58	Revisiting the structure-property relationship of metallic glasses: Common spatial correlation revealed as a hidden rule. <i>Physical Review B</i> , 2019 , 99,	3.3 23
57	Mechanism transition and strong temperature dependence of dislocation nucleation from grain boundaries: An accelerated molecular dynamics study. <i>Physical Review B</i> , 2016 , 94,	3.3 23
56	Effects of oxidation on tensile deformation of iron nanowires: Insights from reactive molecular dynamics simulations. <i>Journal of Applied Physics</i> , 2016 , 120, 135104	2.5 23
55	A free energy landscape perspective on the nature of collective diffusion in amorphous solids. <i>Acta Materialia</i> , 2018 , 157, 165-173	8.4 20
54	Atomic theory of viscoelastic response and memory effects in metallic glasses. <i>Physical Review B</i> , 2017 , 96,	3.3 20
53	Direct atomic-scale evidence for shear-dilatation correlation in metallic glasses. <i>Scripta Materialia</i> , 2016 , 112, 37-41	5.6 19
52	Influence of alloying elements on the elastic properties of ternary and quaternary nickel-base superalloys. <i>Philosophical Magazine</i> , 2009 , 89, 2935-2947	1.6 19
51	Size-dependent transition of deformation mechanism, and nonlinear elasticity in Ni ₃ Al nanowires. <i>Applied Physics Letters</i> , 2013 , 102, 041902	3.4 18
50	Atomistic structural mechanism for the glass transition: Entropic contribution. <i>Physical Review B</i> , 2020 , 101,	3.3 17
49	Size-dependent plastic deformation and failure mechanisms of nanotwinned Ni ₃ Al: Insights from an atomistic cracking model. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 649, 449-460	5.3 16
48	One-step annealing optimizes strength-ductility tradeoff in pearlitic steel wires. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 757, 1-13	5.3 16
47	Understanding the serrated flow and Johari-Goldstein relaxation of metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2016 , 444, 23-30	3.9 16
46	Universal enthalpy-entropy compensation rule for the deformation of metallic glasses. <i>Physical Review B</i> , 2015 , 92,	3.3 16
45	Atomistic understanding of diffusion kinetics in nanocrystals from molecular dynamics simulations. <i>Physical Review B</i> , 2013 , 88,	3.3 15
44	A first-principles survey of the partitioning behaviors of alloying elements on γ/α interface. <i>Journal of Applied Physics</i> , 2008 , 104, 013109	2.5 15
43	Intrinsic structural defects on medium range in metallic glasses. <i>Intermetallics</i> , 2016 , 75, 36-41	3.5 14

42	Oxyhydroxide of metallic nanowires in a molecular HO and HO environment and their effects on mechanical properties. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 17289-17303	3.6	14
41	Mechanical properties and electronic structure of superhard diamondlike BC5: A first-principles study. <i>Journal of Applied Physics</i> , 2009 , 106, 043513	2.5	14
40	Strain gradient drives shear banding in metallic glasses. <i>Physical Review B</i> , 2017 , 96,	3.3	13
39	Dislocation nucleation and evolution at the ferrite-cementite interface under cyclic loadings. <i>Acta Materialia</i> , 2020 , 186, 267-277	8.4	13
38	Enhancing strength without compromising ductility in copper by combining extrusion machining and heat treatment. <i>Journal of Materials Processing Technology</i> , 2019 , 267, 52-60	5.3	13
37	Thermal expansion accompanying the glass-liquid transition and crystallization. <i>AIP Advances</i> , 2015 , 5, 127133	1.5	12
36	Susceptibility of shear banding to chemical short-range order in metallic glasses. <i>Scripta Materialia</i> , 2019 , 162, 141-145	5.6	12
35	Atomic structure of the Fe/Fe ₃ C interface with the Isaichev orientation in pearlite. <i>Philosophical Magazine</i> , 2017 , 97, 2375-2386	1.6	11
34	First Report of Lily Blight and Wilt Caused by <i>Fusarium tricinctum</i> in China. <i>Plant Disease</i> , 2013 , 97, 993	1.5	11
33	Dynamic mechanical relaxation and thermal creep of high-entropy La ₃₀ Ce ₃₀ Ni ₁₀ Al ₂₀ Co ₁₀ bulk metallic glass. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021 , 64, 1	3.6	11
32	Universal structural softening in metallic glasses indicated by boson heat capacity peak. <i>Applied Physics Letters</i> , 2017 , 111, 261901	3.4	10
31	Effect of alloying elements on the elastic properties of Fe-Ni and Fe-Ni ₃ Al from first-principles calculations. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1224, 1		9
30	Atomistic Design of High Strength Crystalline-Amorphous Nanocomposites. <i>Materials Transactions</i> , 2013 , 54, 1592-1596	1.3	8
29	Ultrasonic plasticity of metallic glass near room temperature. <i>Applied Materials Today</i> , 2020 , 21, 100866	6.6	8
28	Statistical complexity of potential energy landscape as a dynamic signature of the glass transition. <i>Physical Review B</i> , 2020 , 101,	3.3	7
27	Sluggish hydrogen diffusion and hydrogen decreasing stacking fault energy in a high-entropy alloy. <i>Materials Today Communications</i> , 2021 , 26, 101902	2.5	7
26	Ratchetting in Cold-Drawn Pearlitic Steel Wires. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 4561-4568	2.3	5
25	CO adsorption on small Au _n (n = 1-7) clusters supported on a reduced rutile TiO ₂ (110) surface: a first-principles study. <i>Chinese Physics B</i> , 2011 , 20, 036801	1.2	5

24	Atomistic insights on the influence of pre-oxide shell layer and size on the compressive mechanical properties of nickel nanowires. <i>Journal of Applied Physics</i> , 2019 , 125, 165102	2.5	4
23	Unified perspective on structural heterogeneity of a LaCe-based metallic glass from versatile dynamic stimuli. <i>Intermetallics</i> , 2020 , 125, 106922	3.5	4
22	Machine-learning integrated glassy defect from an intricate configurational-thermodynamic-dynamic space. <i>Physical Review B</i> , 2021 , 104,	3.3	4
21	A hierarchically correlated flow defect model for metallic glass: Universal understanding of stress relaxation and creep. <i>International Journal of Plasticity</i> , 2022 , 154, 103288	7.6	4
20	Hierarchical-microstructure based modeling for plastic deformation of partial recrystallized copper. <i>Mechanics of Materials</i> , 2019 , 139, 103207	3.3	3
19	Bridging shear transformation zone to the atomic structure of amorphous solids. <i>Journal of Non-Crystalline Solids</i> , 2015 , 410, 100-105	3.9	3
18	Publisher's Note: Universal enthalpy-entropy compensation rule for the deformation of metallic glasses [Phys. Rev. B 92, 174118 (2015)]. <i>Physical Review B</i> , 2015 , 92,	3.3	2
17	Atomistic interpretation of extra temperature and strain-rate sensitivity of heterogeneous dislocation nucleation in a multi-principal-element alloy. <i>International Journal of Plasticity</i> , 2022 , 149, 103155	7.6	2
16	Disentangling diffusion heterogeneity in high-entropy alloys. <i>Acta Materialia</i> , 2021 , 224, 117527	8.4	2
15	Complexity of plastic instability in amorphous solids: Insights from spatiotemporal evolution of vibrational modes. <i>European Physical Journal E</i> , 2020 , 43, 56	1.5	2
14	Grain boundary-mediated plasticity accommodating the cracking process in nanograined gold: In situ observations and simulations. <i>Scripta Materialia</i> , 2021 , 194, 113693	5.6	2
13	Synergistic strengthening mechanisms of rhenium in nickel-based single crystal superalloys. <i>Intermetallics</i> , 2021 , 132, 107133	3.5	2
12	Inelastic deformation of metallic glasses under dynamic cyclic loading. <i>Scripta Materialia</i> , 2021 , 194, 113675	6.75	2
11	Machine learning atomic-scale stiffness in metallic glass. <i>Extreme Mechanics Letters</i> , 2021 , 48, 101446	3.9	2
10	Microstructural effects on the dynamical relaxation of glasses and glass composites: A molecular dynamics study. <i>Acta Materialia</i> , 2021 , 220, 117293	8.4	2
9	Correlation between vibrational anomalies and emergent anharmonicity of the local potential energy landscape in metallic glasses. <i>Physical Review B</i> , 2022 , 105,	3.3	1
8	Unraveling strongly entropic effect on β -relaxation in metallic glass: Insights from enhanced atomistic samplings over experimentally relevant timescales. <i>Physical Review B</i> , 2020 , 102,	3.3	1
7	Investigation of high spin states in ^{133}Cs . <i>European Physical Journal A</i> , 2018 , 54, 1	2.5	1

6	Stress relaxation in high-entropy Pd ₂₀ Pt ₂₀ Cu ₂₀ Ni ₂₀ P ₂₀ metallic glass: Experiments, modeling and theory. <i>Mechanics of Materials</i> , 2021 , 160, 103959	3.3	1
5	Sluggish dynamics of homogeneous flow in high-entropy metallic glasses. <i>Scripta Materialia</i> , 2022 , 214, 114673	5.6	1
4	Incorporating a soft ordered phase into an amorphous configuration enhances its uniform plastic deformation under shear. <i>AIP Advances</i> , 2019 , 9, 015329	1.5	0
3	Dynamic responses in shocked Cu-Zr nanoglasses with gradient microstructure. <i>International Journal of Plasticity</i> , 2022 , 149, 103154	7.6	0
2	Correlation between strain rate sensitivity and relaxation of metallic glasses. <i>AIP Advances</i> , 2016 , 6, 075022	1.5	0
1	Elastic criterion for shear-banding instability in amorphous solids.. <i>Physical Review E</i> , 2022 , 105, 045003	2.4	0