

Hai-Bin Yu

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36
papers

2,035
citations

20
h-index

38
g-index

38
ext. papers

2,343
ext. citations

8.1
avg, IF

5.24
L-index

#	Paper	IF	Citations
36	The β -relaxation in metallic glasses: an overview. <i>Materials Today</i> , 2013 , 16, 183-191	21.8	243
35	Relating activation of shear transformation zones to β -relaxations in metallic glasses. <i>Physical Review B</i> , 2010 , 81,	3.3	238
34	Tensile plasticity in metallic glasses with pronounced β -relaxations. <i>Physical Review Letters</i> , 2012 , 108, 015504	7.4	204
33	The β -relaxation in metallic glasses. <i>National Science Review</i> , 2014 , 1, 429-461	10.8	160
32	Correlation between β -relaxation and self-diffusion of the smallest constituting atoms in metallic glasses. <i>Physical Review Letters</i> , 2012 , 109, 095508	7.4	156
31	Ultrastable metallic glass. <i>Advanced Materials</i> , 2013 , 25, 5904-8	24	131
30	The activation energy and volume of flow units of metallic glasses. <i>Scripta Materialia</i> , 2012 , 67, 9-12	5.6	122
29	Chemical influence on β -relaxations and the formation of molecule-like metallic glasses. <i>Nature Communications</i> , 2013 , 4, 2204	17.4	107
28	Suppression of β -relaxation in Vapor-Deposited Ultrastable Glasses. <i>Physical Review Letters</i> , 2015 , 115, 185501	7.4	97
27	Structural rearrangements governing Johari-Goldstein relaxations in metallic glasses. <i>Science Advances</i> , 2017 , 3, e1701577	14.3	89
26	Stress-induced structural inhomogeneity and plasticity of bulk metallic glasses. <i>Scripta Materialia</i> , 2009 , 61, 640-643	5.6	60
25	Atomic mechanism of internal friction in a model metallic glass. <i>Physical Review B</i> , 2014 , 90,	3.3	41
24	Relation between β -relaxation and fragility in LaCe-based metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 869-871	3.9	40
23	Fundamental Link between β -relaxation, Excess Wings, and Cage-Breaking in Metallic Glasses. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5877-5883	6.4	32
22	A connection between the structural β -relaxation and the β -relaxation found in bulk metallic glass-formers. <i>Journal of Chemical Physics</i> , 2013 , 139, 014502	3.9	31
21	Shadow glass transition as a thermodynamic signature of β -relaxation in hyper-quenched metallic glasses. <i>National Science Review</i> , 2020 , 7, 1896-1905	10.8	30
20	Unified Criterion for Temperature-Induced and Strain-Driven Glass Transitions in Metallic Glass. <i>Physical Review Letters</i> , 2015 , 115, 135701	7.4	28

19	Strain induced fragility transition in metallic glass. <i>Nature Communications</i> , 2015 , 6, 7179	17.4	25
18	Statistic Analysis of the Mechanical Behavior of Bulk Metallic Glasses. <i>Advanced Engineering Materials</i> , 2009 , 11, 370-373	3.5	21
17	Relating Ultrastable Glass Formation to Enhanced Surface Diffusion via the Johari-Goldstein Relaxation in Molecular Glasses. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 2739-2744	6.4	20
16	Predicting Complex Relaxation Processes in Metallic Glass. <i>Physical Review Letters</i> , 2019 , 123, 105701	7.4	20
15	Engineering Microdomains of Oxides in High-Entropy Alloy Electrodes toward Efficient Oxygen Evolution. <i>Advanced Materials</i> , 2021 , 33, e2101845	24	18
14	Origin of ultrafast Ag radiotracer diffusion in shear bands of deformed bulk metallic glass Pd40Ni40P20. <i>Journal of Applied Physics</i> , 2013 , 113, 103508	2.5	17
13	Uncovering Relaxations in amorphous phase-change materials. <i>Science Advances</i> , 2020 , 6, eaay6726	14.3	13
12	Correlation between Viscoelastic Moduli and Atomic Rearrangements in Metallic Glasses. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3747-3751	6.4	13
11	Structural origin for vibration-induced accelerated aging and rejuvenation in metallic glasses. <i>Journal of Chemical Physics</i> , 2019 , 150, 204507	3.9	11
10	Three-Dimensional Hierarchical Porous Structures of Metallic Glass/Copper Composite Catalysts by 3D Printing for Efficient Wastewater Treatments. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 7227-7237	9.5	11
9	Enhancement of Strength and Corrosion Resistance of Copper Wires by Metallic Glass Coating. <i>Materials Transactions</i> , 2009 , 50, 2451-2454	1.3	10
8	Fast dynamics in a model metallic glass-forming material. <i>Journal of Chemical Physics</i> , 2021 , 154, 084505	3.9	9
7	Regenerator performance below 4 K in Tm-based bulk metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 1716-1719	3.9	7
6	Dynamic heterogeneity, cooperative motion, and Johari-Goldstein [Formula: see text]-relaxation in a metallic glass-forming material exhibiting a fragile-to-strong transition. <i>European Physical Journal E</i> , 2021 , 44, 56	1.5	7
5	Metallic Nanoglasses with Promoted Relaxation and Tensile Plasticity. <i>Nano Letters</i> , 2021 , 21, 6051-6056	1.5	7
4	Anomalous nonlinear damping in metallic glasses: Signature of elasticity breakdown. <i>Journal of Chemical Physics</i> , 2019 , 150, 111104	3.9	4
3	Revealing hidden supercooled liquid states in Al-based metallic glasses by ultrafast scanning calorimetry: Approaching theoretical ceiling of liquid fragility. <i>Science China Materials</i> , 2020 , 63, 157-164	7.1	4
2	Nonlinear fragile-to-strong transition in a magnetic glass system driven by magnetic field. <i>AIP Advances</i> , 2017 , 7, 125014	1.5	2

1 Unraveling strongly entropic effect on β -relaxation in metallic glass: Insights from enhanced atomistic samplings over experimentally relevant timescales. *Physical Review B*, **2020**, 102,

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