Hai-Bin Yu

List of Publications by Year
in descending order

38	2,738	236612 25	315357 38
papers	citations	h-index	g-index

38	38	38	1322
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synergistic Stimulation of Metalâ€“Organic Frameworks for Stable Super-cooled Liquid and Quenched Glass. Journal of the American Chemical Society, 2022, 144, 13021-13025.	6.6	45
2	Fast dynamics in a model metallic glass-forming material. Journal of Chemical Physics, 2021, 154, 084505.	1.2	32
3	Three-Dimensional Hierarchical Porous Structures of Metallic Glass/Copper Composite Catalysts by 3D Printing for Efficient Wastewater Treatments. ACS Applied Materials & Interfaces, 2021, 13, 7227-7237.	4.0	45
4	Unveiling correlation between <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Î±</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:m relaxation and yielding behavior in metallic glasses. Physical Review B, 2021, 103, .	1.7	7
5	Dynamic heterogeneity, cooperative motion, and Johariâ€“Goldstein $$eta $$-relaxation in a metallic glass-forming material exhibiting a fragile-to-strong transition. European Physical Journal E, 2021, 44, 56.	0.7	24
6	Metallic Nanoglasses with Promoted Î²-Relaxation and Tensile Plasticity. Nano Letters, 2021, 21, 6051-6056.	4.5	25
7	Engineering Microdomains of Oxides in Highâ€Entropy Alloy Electrodes toward Efficient Oxygen Evolution. Advanced Materials, 2021, 33, e2101845.	11.1	90
8	Revealing hidden supercooled liquid states in Al-based metallic glasses by ultrafast scanning calorimetry: Approaching theoretical ceiling of liquid fragility. Science China Materials, 2020, 63, 157-164.	3.5	6
9	Unraveling strongly entropic effect on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math> -relaxation in metallic glass: Insights from enhanced atomistic samplings over experimentally relevant timescales. Physical Review B, 2020, 102, .	1.1	5
10	Shadow glass transition as a thermodynamic signature of Î² relaxation in hyper-quenched metallic glasses. National Science Review, 2020, 7, 1896-1905.	4.6	58
11	Uncovering Î²-relaxations in amorphous phase-change materials. Science Advances, 2020, 6, eaay6726.	4.7	33
12	Predicting Complex Relaxation Processes in Metallic Glass. Physical Review Letters, 2019, 123, 105701.	2.9	36
13	Structural origin for vibration-induced accelerated aging and rejuvenation in metallic glasses. Journal of Chemical Physics, 2019, 150, 204507.	1.2	25
14	Anomalous nonlinear damping in metallic glasses: Signature of elasticity breakdown. Journal of Chemical Physics, 2019, 150, 111104.	1.2	6
15	Fundamental Link between Î² Relaxation, Excess Wings, and Cage-Breaking in Metallic Glasses. Journal of Physical Chemistry Letters, 2018, 9, 5877-5883.	2.1	44
16	Relating Ultrastable Glass Formation to Enhanced Surface Diffusion via the Johariâ€“Goldstein Î²-Relaxation in Molecular Glasses. Journal of Physical Chemistry Letters, 2017, 8, 2739-2744.	2.1	23
17	Structural rearrangements governing Johari-Goldstein relaxations in metallic glasses. Science Advances, 2017, 3, e1701577.	4.7	132
18	Nonlinear fragile-to-strong transition in a magnetic glass system driven by magnetic field. AIP Advances, 2017, 7, 125014.	0.6	2

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19	Correlation between Viscoelastic Moduli and Atomic Rearrangements in Metallic Glasses. Journal of Physical Chemistry Letters, 2016, 7, 3747-3751.	2.1	18
20	Unified Criterion for Temperature-Induced and Strain-Driven Glass Transitions in Metallic Glass. Physical Review Letters, 2015, 115, 135701.	2.9	33
21	Suppression of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi></mml:math>Relaxation in Vapor-Deposited Ultrastable Glasses. Physical Review Letters, 2015, 115, 185501.	2.9	114
22	Strain induced fragility transition in metallic glass. Nature Communications, 2015, 6, 7179.	5.8	32
23	The Î²-relaxation in metallic glasses. National Science Review, 2014, 1, 429-461.	4.6	199
24	Atomic mechanism of internal friction in a model metallic glass. Physical Review B, 2014, 90, .	1.1	56
25	Origin of ultrafast Ag radiotracer diffusion in shear bands of deformed bulk metallic glass Pd40Ni40P20. Journal of Applied Physics, 2013, 113, .	1.1	18
26	The Î² relaxation in metallic glasses: an overview. Materials Today, 2013, 16, 183-191.	8.3	303
27	Ultrastable Metallic Glass. Advanced Materials, 2013, 25, 5904-5908.	11.1	162
28	Chemical influence on Î²-relaxations and the formation of molecule-like metallic glasses. Nature Communications, 2013, 4, 2204.	5.8	124
29	A connection between the structural Î±-relaxation and the Î²-relaxation found in bulk metallic glass-formers. Journal of Chemical Physics, 2013, 139, 014502.	1.2	37
30	Tensile Plasticity in Metallic Glasses with Pronounced<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi></mml:math>Relaxations. Physical Review Letters, 2012, 108, 015504.	2.9	243
31	Relation between Î² relaxation and fragility in LaCe-based metallic glasses. Journal of Non-Crystalline Solids, 2012, 358, 869-871.	1.5	48
32	Regenerator performance below 4K in Tm-based bulk metallic glasses. Journal of Non-Crystalline Solids, 2012, 358, 1716-1719.	1.5	7
33	Correlation between<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi></mml:math>Relaxation and Self-Diffusion of the Smallest Constituting Atoms in Metallic Glasses. Physical Review Letters, 2012, 109, 095508.	2.9	180
34	The activation energy and volume of flow units of metallic glasses. Scripta Materialia, 2012, 67, 9-12.	2.6	148
35	Relating activation of shear transformation zones to<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi></mml:math>relaxations in metallic glasses. Physical Review B, 2010, 81, .	1.1	279
36	Stress-induced structural inhomogeneity and plasticity of bulk metallic glasses. Scripta Materialia, 2009, 61, 640-643.	2.6	64

#	Article	IF	Citations
37	Statistic Analysis of the Mechanical Behavior of Bulk Metallic Glasses. Advanced Engineering Materials, 2009, 11, 370-373.	1.6	22
38	Enhancement of Strength and Corrosion Resistance of Copper Wires by Metallic Glass Coating. Materials Transactions, 2009, 50, 2451-2454.	0.4	13