Zheng Wang

List of Publications by Year
in descending order

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20 papers	1,270 citations	623699 14 h-index	752679 20 g-index
20 all docs	20 docs citations	20 times ranked	690 citing authors

#	Article	IF	Citations
1	Evolution of hidden localized flow during glass-to-liquid transition in metallic glass. Nature Communications, 2014, 5, 5823.	12.8	251
2	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.	7.8	243
3	The activation energy and volume of flow units of metallic glasses. Scripta Materialia, 2012, 67, 9-12.	5.2	148
4	Signature of viscous flow units in apparent elastic regime of metallic glasses. Applied Physics Letters, 2012, 101, .	3.3	134
5	Flow units as dynamic defects in metallic glassy materials. National Science Review, 2019, 6, 304-323.	9.5	88
6	Pronounced slow Î²-relaxation in La-based bulk metallic glasses. Journal of Physics Condensed Matter, 2011, 23, 142202.	1.8	75
7	Compositional origin of unusual Î²-relaxation properties in La-Ni-Al metallic glasses. Journal of Chemical Physics, 2014, 141, 084506.	3.0	65
8	Shadow glass transition as a thermodynamic signature of Î² relaxation in hyper-quenched metallic glasses. National Science Review, 2020, 7, 1896-1905.	9.5	58
9	Relation between Î² relaxation and fragility in LaCe-based metallic glasses. Journal of Non-Crystalline Solids, 2012, 358, 869-871.	3.1	48
10	A connection between the structural Î±-relaxation and the Î²-relaxation found in bulk metallic glass-formers. Journal of Chemical Physics, 2013, 139, 014502.	3.0	37
11	Low temperature uniform plastic deformation of metallic glasses during elastic iteration. Acta Materialia, 2012, 60, 3741-3747.	7.9	30
12	Design of Cu-Zr-Al and Cu-Zr-Al-Sn bulk amorphous alloys with high glass-forming ability. Journal of Non-Crystalline Solids, 2019, 521, 119531.	3.1	20
13	Plasticity enhancement in bulk metallic glasses by electroless plating with Ni-P amorphous films. Journal of Non-Crystalline Solids, 2015, 430, 115-119.	3.1	17
14	Coupling of caged molecule dynamics to Johari-Goldstein Î²-relaxation in metallic glasses. Journal of Applied Physics, 2016, 119, .	2.5	15
15	Binary rare earth element-Ni/Co metallic glasses with distinctÎ²-relaxation behaviors. Journal of Applied Physics, 2015, 118, 154902.	2.5	13
16	Understanding the changes in ductility and Poisson's ratio of metallic glasses during annealing from microscopic dynamics. Journal of Applied Physics, 2015, 118, .	2.5	11
17	Predicting structural and dynamical behavior of La-based glasses and melts from the anharmonicity in their interatomic potential. Physical Review B, 2018, 98, .	3.2	6
18	Stick-to-sliding transition in contact-resonance atomic force microscopy. Applied Physics Letters, 2018, 113, 083102.	3.3	5

#	Article	IF	Citations
19	General role of rare earth elements in dynamic characteristic of series of FeB-based bulk-glass-forming liquids. Journal of Non-Crystalline Solids, 2021, 572, 121119.	3.1	4
20	Effect of icosahedral clusters on Î² -relaxations in metallic glasses. Chinese Physics B, 2017, 26, 016101.	1.4	2