Yuan-Chao Hu

List of Publications by Year
in descending order

25 papers	1,079 citations	516710 16 h-index	580821 25 g-index
25 all docs	25 docs citations	25 times ranked	1182 citing authors

#	Article	IF	Citations
1	Five-fold symmetry as indicator of dynamic arrest in metallic glass-forming liquids. Nature Communications, 2015, 6, 8310.	12.8	206
2	A Highly Efficient and Selfâ€Stabilizing Metallicâ€Glass Catalyst for Electrochemical Hydrogen Generation. Advanced Materials, 2016, 28, 10293-10297.	21.0	195
3	High Entropy Intermetallicâ€“Oxide Coreâ€“Shell Nanostructure as Superb Oxygen Evolution Reaction Catalyst. Advanced Sustainable Systems, 2020, 4, 1900105.	5.3	129
4	Shear-band affected zone revealed by magnetic domains in a ferromagnetic metallic glass. Nature Communications, 2018, 9, 4414.	12.8	62
5	Flexible strain sensors with high performance based on metallic glass thin film. Applied Physics Letters, 2017, 111, .	3.3	55
6	Functional Applications of Metallic Glasses in Electrocatalysis. ChemCatChem, 2019, 11, 2401-2414.	3.7	51
7	Pressure effects on structure and dynamics of metallic glass-forming liquid. Journal of Chemical Physics, 2017, 146, 024507.	3.0	49
8	Configuration correlation governs slow dynamics of supercooled metallic liquids. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6375-6380.	7.1	43
9	Correlation between local elastic heterogeneities and overall elastic properties in metallic glasses. Acta Materialia, 2016, 121, 266-276.	7.9	41
10	Unveiling atomic-scale features of inherent heterogeneity in metallic glass by molecular dynamics simulations. Physical Review B, 2016, 93, .	3.2	39
11	Physical origin of glass formation from multicomponent systems. Science Advances, 2020, 6, .	10.3	37
12	Structural signatures evidenced in dynamic crossover phenomena in metallic glass-forming liquids. Journal of Applied Physics, 2016, 119, .	2.5	31
13	The critical strain - A crossover from stochastic activation to percolation of flow units during stress relaxation in metallic glass. Scripta Materialia, 2017, 134, 75-79.	5.2	20
14	Five-fold local symmetry in metallic liquids and glasses. Chinese Physics B, 2017, 26, 016104.	1.4	19
15	Common mechanism for controlling polymorph selection during crystallization in supercooled metallic liquids. Acta Materialia, 2018, 161, 367-373.	7.9	19
16	Thermodynamic scaling of glassy dynamics and dynamic heterogeneities in metallic glass-forming liquid. Journal of Chemical Physics, 2016, 145, 104503.	3.0	18
17	Hardening of shear band in metallic glass. Scientific Reports, 2017, 7, 7076.	3.3	15
18	Tuning the glass-forming ability of metallic glasses through energetic frustration. Physical Review Materials, 2019, 3, .	2.4	10

#	Article	IF	Citations
19	Effect of Microstructural Evolution and Hardening in Subsurface on Wear Behavior of Mg-3Al-1Zn Alloy. Journal of Materials Engineering and Performance, 2013, 22, 3783-3791.	2.5	9
20	Impact of spatial dimension on structural ordering in metallic glass. Physical Review E, 2017, 96, 022613.	2.1	9
21	Heterogeneity: the soul of metallic glasses. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 176112.	0.5	9
22	Glass formation in binary alloys with different atomic symmetries. Physical Review Materials, 2020, 4, .	2.4	5
23	Quantitative characterization of mechano-biological interrelationships of single cells. International Journal of Advanced Manufacturing Technology, 2019, 105, 4967-4972.	3.0	4
24	Glass-forming ability of binary Lennard-Jones systems. Physical Review Materials, 2022, 6, .	2.4	3
25	Effects of thermal aging on Fe ion-irradiated Feâ€“0.6%Cu alloy investigated by positron annihilation. Nuclear Science and Techniques/Hewuli, 2017, 28, 1.	3.4	1