

# Yuan-Chao Hu

## List of Publications by Year in descending order

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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	Glass-forming ability of binary Lennard-Jones systems. <i>Physical Review Materials</i> , 2022, 6, .	2.4	3
2	Physical origin of glass formation from multicomponent systems. <i>Science Advances</i> , 2020, 6, .	10.3	37
3	High Entropy Intermetallics with "Oxide Core" Shell Nanostructure as Superb Oxygen Evolution Reaction Catalyst. <i>Advanced Sustainable Systems</i> , 2020, 4, 1900105.	5.3	129
4	Glass formation in binary alloys with different atomic symmetries. <i>Physical Review Materials</i> , 2020, 4, .	2.4	5
5	Functional Applications of Metallic Glasses in Electrocatalysis. <i>ChemCatChem</i> , 2019, 11, 2401-2414.	3.7	51
6	Quantitative characterization of mechano-biological interrelationships of single cells. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 105, 4967-4972.	3.0	4
7	Tuning the glass-forming ability of metallic glasses through energetic frustration. <i>Physical Review Materials</i> , 2019, 3, .	2.4	10
8	Common mechanism for controlling polymorph selection during crystallization in supercooled metallic liquids. <i>Acta Materialia</i> , 2018, 161, 367-373.	7.9	19
9	Shear-band affected zone revealed by magnetic domains in a ferromagnetic metallic glass. <i>Nature Communications</i> , 2018, 9, 4414.	12.8	62
10	Configuration correlation governs slow dynamics of supercooled metallic liquids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6375-6380.	7.1	43
11	Pressure effects on structure and dynamics of metallic glass-forming liquid. <i>Journal of Chemical Physics</i> , 2017, 146, 024507.	3.0	49
12	Five-fold local symmetry in metallic liquids and glasses. <i>Chinese Physics B</i> , 2017, 26, 016104.	1.4	19
13	The critical strain - A crossover from stochastic activation to percolation of flow units during stress relaxation in metallic glass. <i>Scripta Materialia</i> , 2017, 134, 75-79.	5.2	20
14	Effects of thermal aging on Fe ion-irradiated Fe-0.6%Cu alloy investigated by positron annihilation. <i>Nuclear Science and Techniques/Hewuli</i> , 2017, 28, 1.	3.4	1
15	Impact of spatial dimension on structural ordering in metallic glass. <i>Physical Review E</i> , 2017, 96, 022613.	2.1	9
16	Flexible strain sensors with high performance based on metallic glass thin film. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	55
17	Hardening of shear band in metallic glass. <i>Scientific Reports</i> , 2017, 7, 7076.	3.3	15
18	Heterogeneity: the soul of metallic glasses. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2017, 66, 176112.	0.5	9

#	ARTICLE	IF	CITATIONS
19	Thermodynamic scaling of glassy dynamics and dynamic heterogeneities in metallic glass-forming liquid. <i>Journal of Chemical Physics</i> , 2016, 145, 104503.	3.0	18
20	A Highly Efficient and Self-Stabilizing Metallic-Glass Catalyst for Electrochemical Hydrogen Generation. <i>Advanced Materials</i> , 2016, 28, 10293-10297.	21.0	195
21	Correlation between local elastic heterogeneities and overall elastic properties in metallic glasses. <i>Acta Materialia</i> , 2016, 121, 266-276.	7.9	41
22	Unveiling atomic-scale features of inherent heterogeneity in metallic glass by molecular dynamics simulations. <i>Physical Review B</i> , 2016, 93, .	3.2	39
23	Structural signatures evidenced in dynamic crossover phenomena in metallic glass-forming liquids. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	31
24	Five-fold symmetry as indicator of dynamic arrest in metallic glass-forming liquids. <i>Nature Communications</i> , 2015, 6, 8310.	12.8	206
25	Effect of Microstructural Evolution and Hardening in Subsurface on Wear Behavior of Mg-3Al-1Zn Alloy. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 3783-3791.	2.5	9