

Shuai Wei

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

29 papers	813 citations	16 h-index	28 g-index
30 ext. papers	974 ext. citations	8.1 avg, IF	4.42 L-index

#	Paper	IF	Citations
29	The glass transition of water, insight from phase change materials. <i>Journal of Non-Crystalline Solids: X</i> , 2022 , 14, 100084	2.5	2
28	Anomalous liquids on a new landscape: From water to phase-change materials. <i>Journal of Non-Crystalline Solids: X</i> , 2022 , 100094	2.5	
27	Connecting structural defects to tensile failure in a 3D-printed fully-amorphous bulk metallic glass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 813, 141106	5.3	8
26	Approaching the Glass Transition Temperature of GeTe by Crystallizing Ge ₁₅ Te ₈₅ . <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2000478	2.5	6
25	Glass-forming ability correlated with the liquid-liquid transition in Pd _{42.5} Ni _{42.5} P ₁₅ alloy. <i>Scripta Materialia</i> , 2021 , 193, 117-121	5.6	10
24	The potential of chemical bonding to design crystallization and vitrification kinetics. <i>Nature Communications</i> , 2021 , 12, 4978	17.4	16
23	Thermodynamics and kinetics of glassy and liquid phase-change materials. <i>Materials Science in Semiconductor Processing</i> , 2021 , 135, 106094	4.3	5
22	Glass transition of the phase change material AIST and its impact on crystallization. <i>Materials Science in Semiconductor Processing</i> , 2021 , 134, 105990	4.3	6
21	Violation of the Stokes-Einstein relation in Ge ₂ Sb ₂ Te ₅ , GeTe, Ag ₄ In ₃ Sb ₆₇ Te ₂₆ , and Ge ₁₅ Sb ₈₅ , and its connection to fast crystallization. <i>Acta Materialia</i> , 2020 , 195, 491-500	8.4	12
20	3D pore structure characterization and hardness in a powder bed fusion-processed fully amorphous Zr-based bulk metallic glass. <i>Materials Characterization</i> , 2020 , 162, 110178	3.9	19
19	Uncovering Relaxations in amorphous phase-change materials. <i>Science Advances</i> , 2020 , 6, eaay6726	14.3	13
18	Control of effective cooling rate upon magnetron sputter deposition of glassy Ge ₁₅ Te ₈₅ . <i>Scripta Materialia</i> , 2020 , 178, 223-226	5.6	11
17	Liquid-liquid phase transitions in glass-forming systems and their implications for memory technology. <i>International Journal of Applied Glass Science</i> , 2020 , 11, 236-244	1.8	10
16	Phase-change materials: The view from the liquid phase and the metallicity parameter. <i>MRS Bulletin</i> , 2019 , 44, 691-698	3.2	23
15	Femtosecond x-ray diffraction reveals a liquid-liquid phase transition in phase-change materials. <i>Science</i> , 2019 , 364, 1062-1067	33.3	84
14	Switching between Crystallization from the Glassy and the Undercooled Liquid Phase in Phase Change Material Ge Sb Te. <i>Advanced Materials</i> , 2019 , 31, e1900784	24	44
13	Breakdown of the Stokes-Einstein relation above the melting temperature in a liquid phase-change material. <i>Science Advances</i> , 2018 , 4, eaat8632	14.3	35

12	Structural evolution on medium-range-order during the fragile-strong transition in Ge ₁₅ Te ₈₅ . <i>Acta Materialia</i> , 2017 , 129, 259-267	8.4	32
11	Glass Transitions, Semiconductor-Metal Transitions, and Fragilities in Ge _{1-x} V _x Te (V=As, Sb) Liquid Alloys: The Difference One Element Can Make. <i>Physical Review Applied</i> , 2017 , 7,	4.3	29
10	Structure of ZnCl Melt. Part II: Fragile-to-Strong Transition in a Tetrahedral Liquid. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 11210-11218	3.4	22
9	Structural changes during a liquid-liquid transition in the deeply undercooled Zr _{58.5} Cu _{15.6} Ni _{12.8} Al _{10.3} Nb _{2.8} bulk metallic glass forming melt. <i>Physical Review B</i> , 2016 , 93,	3.3	58
8	The effect of low-temperature structural relaxation on free volume and chemical short-range ordering in a Au ₄₉ Cu _{26.9} Si _{16.3} Ag _{5.5} Pd _{2.3} bulk metallic glass. <i>Scripta Materialia</i> , 2015 , 103, 14-17	5.6	30
7	Linking structure to fragility in bulk metallic glass-forming liquids. <i>Applied Physics Letters</i> , 2015 , 106, 181901	3.4	40
6	Phase change alloy viscosities down to T _g using Adam-Gibbs-equation fittings to excess entropy data: A fragile-to-strong transition. <i>Journal of Applied Physics</i> , 2015 , 118, 034903	2.5	50
5	Relaxation and low-temperature aging in a Au-based bulk metallic glass: From elastic properties to atomic-scale structure. <i>Physical Review B</i> , 2014 , 89,	3.3	50
4	The impact of fragility on the calorimetric glass transition in bulk metallic glasses. <i>Intermetallics</i> , 2014 , 55, 138-144	3.5	19
3	Liquid-liquid transition in a strong bulk metallic glass-forming liquid. <i>Nature Communications</i> , 2013 , 4, 2083	17.4	136
2	Glass transition with decreasing correlation length during cooling of Fe ₅₀ Co ₅₀ superlattice and strong liquids. <i>Nature Physics</i> , 2011 , 7, 178-182	16.2	40
1	Fragile-to-Strong Transition in Phase-Change Material Ge ₃ Sb ₆ Te ₅ . <i>Advanced Functional Materials</i> , 2021 , 31, 2103114	3.14	2