

List of Publications by Citations

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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	Liquid-liquid transition in a strong bulk metallic glass-forming liquid. <i>Nature Communications</i> , <b>2013</b> , 4, 2083	17.4	136
28	Femtosecond x-ray diffraction reveals a liquid-liquid phase transition in phase-change materials. <i>Science</i> , <b>2019</b> , 364, 1062-1067	33.3	84
27	Structural changes during a liquid-liquid transition in the deeply undercooled Zr <sub>58.5</sub> Cu <sub>15.6</sub> Ni <sub>12.8</sub> Al <sub>10.3</sub> Nb <sub>2.8</sub> bulk metallic glass forming melt. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	58
26	Phase change alloy viscosities down to T <sub>g</sub> using Adam-Gibbs-equation fittings to excess entropy data: A fragile-to-strong transition. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 034903	2.5	50
25	Relaxation and low-temperature aging in a Au-based bulk metallic glass: From elastic properties to atomic-scale structure. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	50
24	Switching between Crystallization from the Glassy and the Undercooled Liquid Phase in Phase Change Material Ge Sb Te. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900784	24	44
23	Linking structure to fragility in bulk metallic glass-forming liquids. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 181901	3.4	40
22	Glass transition with decreasing correlation length during cooling of Fe <sub>50</sub> Co <sub>50</sub> superlattice and strong liquids. <i>Nature Physics</i> , <b>2011</b> , 7, 178-182	16.2	40
21	Breakdown of the Stokes-Einstein relation above the melting temperature in a liquid phase-change material. <i>Science Advances</i> , <b>2018</b> , 4, eaat8632	14.3	35
20	Structural evolution on medium-range-order during the fragile-strong transition in Ge <sub>15</sub> Te <sub>85</sub> . <i>Acta Materialia</i> , <b>2017</b> , 129, 259-267	8.4	32
19	The effect of low-temperature structural relaxation on free volume and chemical short-range ordering in a Au <sub>49</sub> Cu <sub>26.9</sub> Si <sub>16.3</sub> Ag <sub>5.5</sub> Pd <sub>2.3</sub> bulk metallic glass. <i>Scripta Materialia</i> , <b>2015</b> , 103, 14-17	5.6	30
18	Glass Transitions, Semiconductor-Metal Transitions, and Fragilities in Ge <sub>1-x</sub> Te <sub>x</sub> (V=As, Sb) Liquid Alloys: The Difference One Element Can Make. <i>Physical Review Applied</i> , <b>2017</b> , 7,	4.3	29
17	Phase-change materials: The view from the liquid phase and the metallicity parameter. <i>MRS Bulletin</i> , <b>2019</b> , 44, 691-698	3.2	23
16	Structure of ZnCl Melt. Part II: Fragile-to-Strong Transition in a Tetrahedral Liquid. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 11210-11218	3.4	22
15	3D pore structure characterization and hardness in a powder bed fusion-processed fully amorphous Zr-based bulk metallic glass. <i>Materials Characterization</i> , <b>2020</b> , 162, 110178	3.9	19
14	The impact of fragility on the calorimetric glass transition in bulk metallic glasses. <i>Intermetallics</i> , <b>2014</b> , 55, 138-144	3.5	19
13	The potential of chemical bonding to design crystallization and vitrification kinetics. <i>Nature Communications</i> , <b>2021</b> , 12, 4978	17.4	16

12	Uncovering Relaxations in amorphous phase-change materials. <i>Science Advances</i> , <b>2020</b> , 6, eaay6726	14.3	13
11	Violation of the Stokes-Einstein relation in Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> , GeTe, Ag <sub>4</sub> In <sub>3</sub> Sb <sub>6</sub> Te <sub>26</sub> , and Ge <sub>15</sub> Sb <sub>8</sub> Te <sub>5</sub> , and its connection to fast crystallization. <i>Acta Materialia</i> , <b>2020</b> , 195, 491-500	8.4	12
10	Control of effective cooling rate upon magnetron sputter deposition of glassy Ge <sub>15</sub> Te <sub>85</sub> . <i>Scripta Materialia</i> , <b>2020</b> , 178, 223-226	5.6	11
9	Liquid-liquid phase transitions in glass-forming systems and their implications for memory technology. <i>International Journal of Applied Glass Science</i> , <b>2020</b> , 11, 236-244	1.8	10
8	Glass-forming ability correlated with the liquid-liquid transition in Pd <sub>42.5</sub> Ni <sub>42.5</sub> P <sub>15</sub> alloy. <i>Scripta Materialia</i> , <b>2021</b> , 193, 117-121	5.6	10
7	Connecting structural defects to tensile failure in a 3D-printed fully-amorphous bulk metallic glass. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 813, 141106	5.3	8
6	Approaching the Glass Transition Temperature of GeTe by Crystallizing Ge <sub>15</sub> Te <sub>85</sub> . <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2021</b> , 15, 2000478	2.5	6
5	Glass transition of the phase change material AIST and its impact on crystallization. <i>Materials Science in Semiconductor Processing</i> , <b>2021</b> , 134, 105990	4.3	6
4	Thermodynamics and kinetics of glassy and liquid phase-change materials. <i>Materials Science in Semiconductor Processing</i> , <b>2021</b> , 135, 106094	4.3	5
3	The glass transition of water, insight from phase change materials. <i>Journal of Non-Crystalline Solids: X</i> , <b>2022</b> , 14, 100084	2.5	2
2	Fragile-to-Strong Transition in Phase-Change Material Ge <sub>3</sub> Sb <sub>6</sub> Te <sub>5</sub> . <i>Advanced Functional Materials</i> , <b>2022</b> , 32, 211114	3.14	2
1	Anomalous liquids on a new landscape: From water to phase-change materials. <i>Journal of Non-Crystalline Solids: X</i> , <b>2022</b> , 100094	2.5	