Isabella Gallino

List of Publications by Citations

49 papers	1,194 citations	19 h-index	34 g-index
54 ext. papers	1,383 ext. citations	5.6 avg, IF	4.63 L-index

#	Paper	IF	Citations
49	Enthalpy relaxation and its relation to the thermodynamics and crystallization of the Zr58.5Cu15.6Ni12.8Al10.3Nb2.8 bulk metallic glass-forming alloy. *Acta Materialia*, **2007**, 55, 1367-1376	8.4	130
48	Solid state reactions in Al/Ni alternate foils induced by cold rolling and annealing. *Acta Materialia*, **1999**, 47, 1901-1914	8.4	90
47	X-Ray Photon Correlation Spectroscopy Reveals Intermittent Aging Dynamics in a Metallic Glass. *Physical Review Letters*, **2015**, 115, 175701	7.4	69
46	Kinetic and thermodynamic studies of the fragility of bulk metallic glass forming liquids. *Journal of Applied Physics*, **2010**, 108, 063501	2.5	69
45	High temperature melt viscosity and fragile to strong transition in ZrCuNiAlNb(Ti) and Cu47Ti34Zr11Ni8 bulk metallic glasses. *Acta Materialia*, **2012**, 60, 4712-4719	8.4	67
44	Hierarchical aging pathways and reversible fragile-to-strong transition upon annealing of a metallic glass former. *Acta Materialia*, **2018**, 144, 400-410	8.4	58
43	relaxation and low-temperature aging in a Au-based bulk metallic glass: From elastic properties to atomic-scale structure. *Physical Review B*, **2014**, 89,	3.3	50
42	The effect of cooling rates on the apparent fragility of Zr-based bulk metallic glasses. *Journal of Applied Physics*, **2010**, 107, 123529	2.5	47
41	Linking structure to fragility in bulk metallic glass-forming liquids. *Applied Physics Letters*, **2015**, 106, 181901	3.4	40
40	Glass transition with decreasing correlation length during cooling of Fe50Co50 superlattice and strong liquids. *Nature Physics*, **2011**, 7, 178-182	16.2	40
39	Thermo-physical characterization of the Fe67Mo6Ni3.5Cr3.5P12C5.5B2.5 bulk metallic glass forming alloy. *Acta Materialia*, **2016**, 118, 129-139	8.4	40
38	Oxidation and corrosion of highly alloyed CuFeNi as inert anode material for aluminum electrowinning in as-cast and homogenized conditions. *Corrosion Science*, **2012**, 63, 293-303	6.8	37
37	Equilibrium viscosity of ZrCuNiAlNb bulk metallic glasses. *Scripta Materialia*, **2010**, 63, 573-576	5.6	36
36	Corrosion resistance of CuZrAlY and ZrCuNiAlNb bulk metallic glasses. *Journal of Alloys and Compounds*, **2007**, 434-435, 234-236	5.7	34
35	Vitrification decoupling from relaxation in a metallic glass. *Science Advances*, **2020**, 6, eaay1454	14.3	31
34	The kinetic fragility of Pt-P- and Ni-P-based bulk glass-forming liquids and its thermodynamic and structural signature. *Acta Materialia*, **2017**, 132, 118-127	8.4	30
33	The effect of low-temperature structural relaxation on free volume and chemical short-range ordering in a Au49Cu26.9Si16.3Ag5.5Pd2.3 bulk metallic glass. *Scripta Materialia*, **2015**, 103, 14-17	5.6	30

32	On the thermodynamics, kinetics, and sub-Tg relaxations of Mg-based bulk metallic glasses. *Acta Materialia*, **2018**, 155, 117-127	8.4	25
31	On the high glass-forming ability of Pt-Cu-Ni/Co-P-based liquids. *Acta Materialia*, **2017**, 141, 109-119	8.4	25
30	The impact of fragility on the calorimetric glass transition in bulk metallic glasses. *Intermetallics*, **2014**, 55, 138-144	3.5	19
29	A colourimetric and microstructural study of the tarnishing of gold-based bulk metallic glasses. *Corrosion Science*, **2014**, 85, 258-269	6.8	18
28	Kinetics, Thermodynamics, and Structure of Bulk Metallic Glass Forming Liquids. *Jom*, **2017**, 69, 2178-2186	2.1	17
27	On the Fragility of Bulk Metallic Glass Forming Liquids. *Entropy*, **2017**, 19, 483	2.8	17
26	Fatigue crack growth behavior of a Zr58.5Cu15.6Ni12.8Al10.3Nb2.8 bulk metallic glass-forming alloy. *Scripta Materialia*, **2011**, 64, 359-362	5.6	15
25	Atomic scale analysis of phase formation and diffusion kinetics in Ag/Al multilayer thin films. *Journal of Applied Physics*, **2016**, 120, 195306	2.5	15
24	Relaxation Pathways in Metallic Glasses. *Jom*, **2017**, 69, 2171-2177	2.1	14
23	Homogenization of Highly Alloyed Cu-Fe-Ni: A Phase Diagram Study. *Journal of Phase Equilibria and Diffusion*, **2008**, 29, 131-135	1	13
22	The role of Ga addition on the thermodynamics, kinetics, and tarnishing properties of the Au-Ag-Pd-Cu-Si bulk metallic glass forming system. *Acta Materialia*, **2019**, 165, 315-326	8.4	13
21	On the kinetic and thermodynamic fragility of the Pt60Cu16Co2P22 and Pt57.3Cu14.6Ni5.3P22.8 bulk metallic glasses. *Journal of Alloys and Compounds*, **2014**, 615, S35-S39	5.7	12
20	Thermodynamic and kinetic studies of the Cu-Zr-Al(-Sn) bulk metallic glass-forming system. *Journal of Alloys and Compounds*, **2020**, 844, 156126	5.7	11
19	Oxidation of glassy Ni-Nb-Sn alloys and its influence on the thermodynamics and kinetics of crystallization. *Acta Materialia*, **2016**, 102, 176-186	8.4	10
18	Microscopic evidence of the connection between liquid-liquid transition and dynamical crossover in an ultraviscous metallic glass former. *Physical Review Materials*, **2018**, 2,	3.2	10
17	High temperature oxidation of the refractory alloy glass Nb35Ni60Sn5. *Journal of Alloys and Compounds*, **2007**, 434-435, 225-228	5.7	9
16	Development of novel 18-karat, premium-white gold bulk metallic glasses with improved tarnishing resistance. *Materials and Design*, **2018**, 140, 495-504	8.1	8
15	On the abnormal room temperature tarnishing of an 18 karat gold bulk metallic glass alloy. *Journal of Alloys and Compounds*, **2014**, 615, S118-S122	5.7	8

14	Enthalpy relaxation of the Zr58.5Cu15.6Ni12.8Al10.3Nb2.8 bulk metallic glass forming alloy. *Journal of Alloys and Compounds*, **2007**, 434-435, 141-144	5.7	7
13	Ni60Nb40 Nanoglass for Tunable Magnetism and Methanol Oxidation. *ACS Applied Nano Materials*, **2020**, 3, 7252-7259	5.6	5
12	Ignition in ternary Ru/Al-based reactive multilayers: Effects of chemistry and stacking sequence. *Journal of Applied Physics*, **2018**, 124, 195301	2.5	5
11	Ultrafast formation of single phase B2 AlCoCrFeNi high entropy alloy films by reactive Ni/Al multilayers as heat source. *Materials and Design*, **2021**, 206, 109790	8.1	5
10	High temperature melt viscosity and fragile-to-strong transition in Zr-Cu-Ni-Al-Nb(Ti) and Cu47Ti34Zr11Ni8 bulk metallic glasses **2013**,		3
9	Ultrafast scanning calorimetry of newly developed Au-Ga bulk metallic glasses. *Journal of Physics Condensed Matter*, **2020**, 32, 324001	1.8	2
8	Analysis of thermophysical properties of lead silicates in comparison to bulk metallic glasses. *Journal of Non-Crystalline Solids*, **2018**, 485, 66-73	3.9	2
7	Influence of Processing Route on the Surface Reactivity of Cu47Ti33Zr11Ni6Sn2Si1 Metallic Glass. *Metals*, **2021**, 11, 1173	2.3	2
6	On the thermodynamics and its connection to structure in the Pt-Pd-Cu-Ni-P bulk metallic glass forming system. *Acta Materialia*, **2021**, 220, 117300	8.4	2
5	Improving Participation of Engineering Students Studying Abroad: An International Dual-Degree Program in Materials Science and Mechanical Engineering. *Jom*, **2013**, 65, 840-845	2.1	1
4	On the devitrification of Cu-Zr-Al alloys: Solving the apparent contradiction between polymorphic liquid-liquid transition and phase separation. *Acta Materialia*, **2022**, 226, 117668	8.4	1
3	Phase Transformation and Characterization of 3D Reactive Microstructures in Nanoscale Al/Ni Multilayers. *Applied Sciences (Switzerland)*, **2021**, 11, 9304	2.6	1
2	Selective laser melting of a Fe-Si-Cr-B-C-based complex-shaped amorphous soft-magnetic electric motor rotor with record dimensions. *Materials and Design*, **2022**, 215, 110483	8.1	1
1	On the formation of nanocrystalline aluminides during high pressure torsion of Al/Ni alternating foils and post-processing multilayer reaction. *Journal of Alloys and Compounds*, **2022**, 905, 164201	5.7	0