

# Isabella Gallino

## 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.

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	On the devitrification of Cu <sub>47</sub> Zr <sub>33</sub> Al alloys: Solving the apparent contradiction between polymorphic liquid-liquid transition and phase separation. <i>Acta Materialia</i> , <b>2022</b> , 226, 117668	8.4	1
48	On the formation of nanocrystalline aluminides during high pressure torsion of Al/Ni alternating foils and post-processing multilayer reaction. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 905, 164201	5.7	0
47	Selective laser melting of a Fe-Si-Cr-B-C-based complex-shaped amorphous soft-magnetic electric motor rotor with record dimensions. <i>Materials and Design</i> , <b>2022</b> , 215, 110483	8.1	1
46	Phase Transformation and Characterization of 3D Reactive Microstructures in Nanoscale Al/Ni Multilayers. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 9304	2.6	1
45	Influence of Processing Route on the Surface Reactivity of Cu <sub>47</sub> Ti <sub>33</sub> Zr <sub>11</sub> Ni <sub>6</sub> Sn <sub>2</sub> Si <sub>1</sub> Metallic Glass. <i>Metals</i> , <b>2021</b> , 11, 1173	2.3	2
44	Ultrafast formation of single phase B2 AlCoCrFeNi high entropy alloy films by reactive Ni/Al multilayers as heat source. <i>Materials and Design</i> , <b>2021</b> , 206, 109790	8.1	5
43	On the thermodynamics and its connection to structure in the Pt-Pd-Cu-Ni-P bulk metallic glass forming system. <i>Acta Materialia</i> , <b>2021</b> , 220, 117300	8.4	2
42	Ni <sub>60</sub> Nb <sub>40</sub> Nanoglass for Tunable Magnetism and Methanol Oxidation. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 7252-7259	5.6	5
41	Thermodynamic and kinetic studies of the Cu <sub>47</sub> Zr <sub>33</sub> Al(Bi) bulk metallic glass-forming system. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 844, 156126	5.7	11
40	Ultrafast scanning calorimetry of newly developed Au-Ga bulk metallic glasses. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 32, 324001	1.8	2
39	Vitrification decoupling from Relaxation in a metallic glass. <i>Science Advances</i> , <b>2020</b> , 6, eaay1454	14.3	31
38	The role of Ga addition on the thermodynamics, kinetics, and tarnishing properties of the Au-Ag-Pd-Cu-Si bulk metallic glass forming system. <i>Acta Materialia</i> , <b>2019</b> , 165, 315-326	8.4	13
37	Analysis of thermophysical properties of lead silicates in comparison to bulk metallic glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2018</b> , 485, 66-73	3.9	2
36	Development of novel 18-karat, premium-white gold bulk metallic glasses with improved tarnishing resistance. <i>Materials and Design</i> , <b>2018</b> , 140, 495-504	8.1	8
35	On the thermodynamics, kinetics, and sub-T <sub>g</sub> relaxations of Mg-based bulk metallic glasses. <i>Acta Materialia</i> , <b>2018</b> , 155, 117-127	8.4	25
34	Microscopic evidence of the connection between liquid-liquid transition and dynamical crossover in an ultraviscous metallic glass former. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	10
33	Hierarchical aging pathways and reversible fragile-to-strong transition upon annealing of a metallic glass former. <i>Acta Materialia</i> , <b>2018</b> , 144, 400-410	8.4	58

32	Ignition in ternary Ru/Al-based reactive multilayers: Effects of chemistry and stacking sequence. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 195301	2.5	5
31	The kinetic fragility of Pt-P- and Ni-P-based bulk glass-forming liquids and its thermodynamic and structural signature. <i>Acta Materialia</i> , <b>2017</b> , 132, 118-127	8.4	30
30	Kinetics, Thermodynamics, and Structure of Bulk Metallic Glass Forming Liquids. <i>Jom</i> , <b>2017</b> , 69, 2178-2186	8.1	17
29	On the high glass-forming ability of Pt-Cu-Ni/Co-P-based liquids. <i>Acta Materialia</i> , <b>2017</b> , 141, 109-119	8.4	25
28	Relaxation Pathways in Metallic Glasses. <i>Jom</i> , <b>2017</b> , 69, 2171-2177	2.1	14
27	On the Fragility of Bulk Metallic Glass Forming Liquids. <i>Entropy</i> , <b>2017</b> , 19, 483	2.8	17
26	Oxidation of glassy Ni <sub>40</sub> Sn alloys and its influence on the thermodynamics and kinetics of crystallization. <i>Acta Materialia</i> , <b>2016</b> , 102, 176-186	8.4	10
25	Atomic scale analysis of phase formation and diffusion kinetics in Ag/Al multilayer thin films. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 195306	2.5	15
24	Thermo-physical characterization of the Fe <sub>67</sub> Mo <sub>6</sub> Ni <sub>3.5</sub> Cr <sub>3.5</sub> P <sub>12</sub> C <sub>5.5</sub> B <sub>2.5</sub> bulk metallic glass forming alloy. <i>Acta Materialia</i> , <b>2016</b> , 118, 129-139	8.4	40
23	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
22	Linking structure to fragility in bulk metallic glass-forming liquids. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 181901	3.4	40
21	X-Ray Photon Correlation Spectroscopy Reveals Intermittent Aging Dynamics in a Metallic Glass. <i>Physical Review Letters</i> , <b>2015</b> , 115, 175701	7.4	69
20	On the abnormal room temperature tarnishing of an 18 karat gold bulk metallic glass alloy. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 615, S118-S122	5.7	8
19	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
18	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
17	On the kinetic and thermodynamic fragility of the Pt <sub>60</sub> Cu <sub>16</sub> Co <sub>2</sub> P <sub>22</sub> and Pt <sub>57.3</sub> Cu <sub>14.6</sub> Ni <sub>5.3</sub> P <sub>22.8</sub> bulk metallic glasses. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 615, S35-S39	5.7	12
16	A colourimetric and microstructural study of the tarnishing of gold-based bulk metallic glasses. <i>Corrosion Science</i> , <b>2014</b> , 85, 258-269	6.8	18
15	Improving Participation of Engineering Students Studying Abroad: An International Dual-Degree Program in Materials Science and Mechanical Engineering. <i>Jom</i> , <b>2013</b> , 65, 840-845	2.1	1

14	High temperature melt viscosity and fragile-to-strong transition in Zr-Cu-Ni-Al-Nb(Ti) and Cu <sub>47</sub> Ti <sub>34</sub> Zr <sub>11</sub> Ni <sub>8</sub> bulk metallic glasses <b>2013</b> ,		3
13	High temperature melt viscosity and fragile to strong transition in 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> (Ti) and Cu <sub>47</sub> Ti <sub>34</sub> Zr <sub>11</sub> Ni <sub>8</sub> bulk metallic glasses. <i>Acta Materialia</i> , <b>2012</b> , 60, 4712-4719	8.4	67
12	Oxidation and corrosion of highly alloyed Cu-Fe-Ni as inert anode material for aluminum electrowinning in as-cast and homogenized conditions. <i>Corrosion Science</i> , <b>2012</b> , 63, 293-303	6.8	37
11	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
10	Fatigue crack growth behavior of a 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 alloy. <i>Scripta Materialia</i> , <b>2011</b> , 64, 359-362	5.6	15
9	Kinetic and thermodynamic studies of the fragility of bulk metallic glass forming liquids. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 063501	2.5	69
8	The effect of cooling rates on the apparent fragility of Zr-based bulk metallic glasses. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 123529	2.5	47
7	Equilibrium viscosity of 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 glasses. <i>Scripta Materialia</i> , <b>2010</b> , 63, 573-576	5.6	36
6	Homogenization of Highly Alloyed Cu-Fe-Ni: A Phase Diagram Study. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2008</b> , 29, 131-135	1	13
5	Enthalpy relaxation and its relation to the thermodynamics and crystallization of the 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 alloy. <i>Acta Materialia</i> , <b>2007</b> , 55, 1367-1376	8.4	130
4	High temperature oxidation of the refractory alloy glass Nb <sub>35</sub> Ni <sub>60</sub> Sn <sub>5</sub> . <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 434-435, 225-228	5.7	9
3	Corrosion resistance of Cu <sub>47</sub> Ti <sub>34</sub> Zr <sub>11</sub> Ni <sub>8</sub> and 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 glasses. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 434-435, 234-236	5.7	34
2	Enthalpy relaxation of the 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 alloy. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 434-435, 141-144	5.7	7
1	Solid state reactions in Al/Ni alternate foils induced by cold rolling and annealing. <i>Acta Materialia</i> , <b>1999</b> , 47, 1901-1914	8.4	90