

Piter Gargarella

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40
papers

924
citations

17
h-index

30
g-index

46
ext. papers

1,033
ext. citations

4.1
avg, IF

3.83
L-index

#	Paper	IF	Citations
40	Strategy for pinpointing the formation of B2 CuZr in metastable CuZr-based shape memory alloys. <i>Acta Materialia</i> , 2011 , 59, 6620-6630	8.4	114
39	Significant tensile ductility induced by cold rolling in Cu47.5Zr47.5Al5 bulk metallic glass. <i>Intermetallics</i> , 2011 , 19, 1394-1398	3.5	75
38	TiCuNi shape memory bulk metallic glass composites. <i>Acta Materialia</i> , 2013 , 61, 151-162	8.4	71
37	Phase formation and mechanical properties of TiCuNiZr bulk metallic glass composites. <i>Acta Materialia</i> , 2014 , 65, 259-269	8.4	66
36	Influence of processing parameters on the fabrication of a Cu-Al-Ni-Mn shape-memory alloy by selective laser melting. <i>Additive Manufacturing</i> , 2016 , 11, 23-31	6.1	61
35	Transformation-mediated plasticity in CuZr based metallic glass composites: A quantitative mechanistic understanding. <i>International Journal of Plasticity</i> , 2016 , 85, 34-51	7.6	49
34	Properties of Cu-Based Shape-Memory Alloys Prepared by Selective Laser Melting. <i>Shape Memory and Superelasticity</i> , 2017 , 3, 24-36	2.8	41
33	Formation of Fe-based glassy matrix composite coatings by laser processing. <i>Surface and Coatings Technology</i> , 2014 , 240, 336-343	4.4	39
32	Correlation between glass-forming ability, thermal stability, and crystallization kinetics of Cu-Zr-Ag metallic glasses. <i>Journal of Applied Physics</i> , 2012 , 112, 063503	2.5	33
31	Effect of microstructure on the mechanical properties of as-cast Ti-Nb-Al-Cu-Ni alloys for biomedical application. <i>Materials Science and Engineering C</i> , 2013 , 33, 4795-801	8.3	31
30	Glass-forming ability, thermal stability of B2 CuZr phase, and crystallization kinetics for rapidly solidified Cu _{47.5} Zr _{47.5} Al ₅ alloys. <i>Journal of Alloys and Compounds</i> , 2016 , 664, 99-108	5.7	29
29	Laser surface remelting of a Cu-Al-Ni-Mn shape memory alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 661, 61-67	5.3	29
28	Spray forming of Cu _{47.5} Al ₅ Ni _{47.5} Mn (wt%) shape memory alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 615, S602-S606	5.7	27
27	Phase Formation, Thermal Stability and Mechanical Properties of a Cu-Al-Ni-Mn Shape Memory Alloy Prepared by Selective Laser Melting. <i>Materials Research</i> , 2015 , 18, 35-38	1.5	27
26	Thermodynamic analysis of the effect of annealing on the thermal stability of a Cu _{47.5} Al ₅ Ni _{47.5} Mn shape memory alloy. <i>Thermochimica Acta</i> , 2015 , 608, 1-6	2.9	25
25	Phase transformation and shape memory effect of a Cu-Al-Ni-Mn-Nb high temperature shape memory alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 663, 64-68	5.3	24
24	Microstructural characterization of a laser remelted coating of Al ₉₁ Fe ₄ Cr ₃ Ti ₂ quasicrystalline alloy. <i>Scripta Materialia</i> , 2009 , 61, 709-712	5.6	21

23	Crystallisation behaviour and glass-forming ability in Al _{0.5} Ni system. <i>Journal of Alloys and Compounds</i> , 2010 , 495, 334-337	5.7	16
22	Improving the glass-forming ability and plasticity of a TiCu-based bulk metallic glass composite by minor additions of Si. <i>Journal of Alloys and Compounds</i> , 2016 , 663, 531-539	5.7	16
21	Microstructural Evolution and Mechanical Behaviour of Metastable Cu ₅₀ Zr ₄₀ Co Alloys. <i>Journal of Materials Science and Technology</i> , 2014 , 30, 584-589	9.1	15
20	Processing a biocompatible Ti ₃₅ Nb ₃₅ Zr ₁₅ Ta alloy by selective laser melting. <i>Journal of Materials Research</i> , 2020 , 35, 1143-1153	2.5	12
19	Laser remelting of Al ₉₁ Fe ₄ Cr ₃ Ti ₂ quasicrystalline phase former alloy. <i>Journal of Alloys and Compounds</i> , 2010 , 495, 646-649	5.7	12
18	Structural evolution in Ti-Cu-Ni metallic glasses during heating. <i>APL Materials</i> , 2015 , 3, 016101	5.7	11
17	Predicted glass-forming ability of Cu-Zr-Co alloys and their crystallization behavior. <i>Journal of Applied Physics</i> , 2013 , 113, 123505	2.5	10
16	Glass formation in the TiCu system with and without Si additions. <i>Journal of Alloys and Compounds</i> , 2015 , 618, 413-420	5.7	9
15	Prediction of good glass formers in the Al-Ni-La and Al-Ni-Gd systems using topological instability and electronegativity. <i>Journal of Applied Physics</i> , 2011 , 109, 093509	2.5	9
14	Effect of dislocations and residual stresses on the martensitic transformation of Cu-Al-Ni-Mn shape memory alloy powders. <i>Journal of Alloys and Compounds</i> , 2017 , 723, 841-849	5.7	8
13	Effect of Al and Ag addition on phase formation, thermal stability, and mechanical properties of Cu ₅₀ Zr-based bulk metallic glasses. <i>Journal of Materials Research</i> , 2011 , 26, 1702-1710	2.5	8
12	On the valence electron theory to estimate the transformation temperatures of Cu ₅₀ Al-based shape memory alloys. <i>Journal of Materials Research</i> , 2017 , 32, 3165-3174	2.5	7
11	Phase Separation in Rapid Solidified Ag-rich Ag-Cu-Zr Alloys. <i>Materials Research</i> , 2015 , 18, 120-126	1.5	7
10	Predicting glass-forming compositions in the Al _{0.5} and Al _{0.5} Ni systems. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S170-S174	5.7	6
9	Oligocrystalline microstructure in an additively manufactured biocompatible Ti-Nb-Zr-Ta alloy. <i>Materials Letters</i> , 2020 , 262, 127149	3.3	5
8	Microstructural Evolution and Mechanical Properties of Ni ₅₇ Nb ₃₃ Zr ₅ Co ₅ Metallic Glass. <i>Materials Research</i> , 2017 , 20, 244-247	1.5	2
7	Phase formation in rapid solidified Ag ₅₀ alloys. <i>Journal of Applied Physics</i> , 2013 , 113, 104308	2.5	2
6	Effect of Co additions on the phase formation, thermal stability, and mechanical properties of rapidly solidified TiCu-based alloys. <i>Journal of Materials Research</i> , 2017 , 32, 2578-2584	2.5	2

5	Laser Cladding of Fe-based Metallic Glass/MoS ₂ Self-lubricating Composites: Effect of Power and Scanning Speed. <i>Materials Research</i> , 2017 , 20, 836-841	1.5	2
4	Selection of new glass-forming compositions in Al ₂ O ₃ system using a combination of topological instability and thermodynamic criteria. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 512, 53-57	5.3	2
3	Effect of minor Si additions and cooling rate on the phase formation and properties of glass former Ni ₅₇ Nb ₃₃ Zr ₅ Co ₅ alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 787, 918-927	5.7	1
2	Microstructure and properties of TiB ₂ -reinforced Ti ₃₅ Nb ₇ Zr ₅ Ta processed by laser-powder bed fusion. <i>Journal of Materials Research</i> , 1	2.5	0
1	Comparison of Cu ₄₀ Al ₁₀ Ni ₁₀ Mn ₂₀ Zr shape memory alloy prepared by selective laser melting and conventional powder metallurgy. <i>Transactions of Nonferrous Metals Society of China</i> , 2020 , 30, 3322-3332	3.3	0