Piter Gargarella

List of Publications by Year
in descending order

45 papers	1,174 citations	393982 19 h-index	377514 34 g-index
46 all docs	46 docs citations	46 times ranked	934 citing authors

#	Article	IF	Citations
1	Strategy for pinpointing the formation of B2 CuZr in metastable CuZr-based shape memory alloys. Acta Materialia, 2011, 59, 6620-6630.	3.8	131
2	Tiâ€“Cuâ€“Ni shape memory bulk metallic glass composites. Acta Materialia, 2013, 61, 151-162.	3.8	84
3	Significant tensile ductility induced by cold rolling in Cu47.5Zr47.5Al5 bulk metallic glass. Intermetallics, 2011, 19, 1394-1398.	1.8	83
4	Influence of processing parameters on the fabrication of a Cu-Al-Ni-Mn shape-memory alloy by selective laser melting. Additive Manufacturing, 2016, 11, 23-31.	1.7	80
5	Phase formation and mechanical properties of Tiâ€“Cuâ€“Niâ€“Zr bulk metallic glass composites. Acta Materialia, 2014, 65, 259-269.	3.8	76
6	Transformation-mediated plasticity in CuZr based metallic glass composites: A quantitative mechanistic understanding. International Journal of Plasticity, 2016, 85, 34-51.	4.1	68
7	Properties of Cu-Based Shape-Memory Alloys Prepared by Selective Laser Melting. Shape Memory and Superelasticity, 2017, 3, 24-36.	1.1	66
8	Formation of Fe-based glassy matrix composite coatings by laser processing. Surface and Coatings Technology, 2014, 240, 336-343.	2.2	56
9	Laser surface remelting of a Cu-Al-Ni-Mn shape memory alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 661, 61-67.	2.6	41
10	Correlation between glass-forming ability, thermal stability, and crystallization kinetics of Cu-Zr-Ag metallic glasses. Journal of Applied Physics, 2012, 112, .	1.1	39
11	Effect of microstructure on the mechanical properties of as-cast Tiâ€“Nbâ€“Alâ€“Cuâ€“Ni alloys for biomedical application. Materials Science and Engineering C, 2013, 33, 4795-4801.	3.8	39
12	Phase Formation, Thermal Stability and Mechanical Properties of a Cu-Al-Ni-Mn Shape Memory Alloy Prepared by Selective Laser Melting. Materials Research, 2015, 18, 35-38.	0.6	36
13	Spray forming of Cuâ€“11.85Alâ€“3.2Niâ€“3Mn (wt%) shape memory alloy. Journal of Alloys and Compounds, 2014, 615, S602-S606.	2.8	34
14	Glass-forming ability, thermal stability of B2 CuZr phase, and crystallization kinetics for rapidly solidified Cuâ€“Zrâ€“Zn alloys. Journal of Alloys and Compounds, 2016, 664, 99-108.	2.8	30
15	Thermodynamic analysis of the effect of annealing on the thermal stability of a Cuâ€“Alâ€“Niâ€“Mn shape memory alloy. Thermochimica Acta, 2015, 608, 1-6.	1.2	29
16	Microstructural characterization of a laser remelted coating of Al91Fe4Cr3Ti2 quasicrystalline alloy. Scripta Materialia, 2009, 61, 709-712.	2.6	28
17	Phase transformation and shape memory effect of a Cu-Al-Ni-Mn-Nb high temperature shape memory alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 663, 64-68.	2.6	27
18	Processing a biocompatible Tiâ€“35Nbâ€“7Zrâ€“5Ta alloy by selective laser melting. Journal of Materials Research, 2020, 35, 1143-1153.	1.2	24

#	Article	IF	Citations
19	Laser remelting of Al91Fe4Cr3Ti2 quasicrystalline phase former alloy. Journal of Alloys and Compounds, 2010, 495, 646-649.	2.8	19
20	Improving the glass-forming ability and plasticity of a TiCu-based bulk metallic glass composite by minor additions of Si. Journal of Alloys and Compounds, 2016, 663, 531-539.	2.8	18
21	Crystallisation behaviour and glass-forming ability in Alâ€“Laâ€“Ni system. Journal of Alloys and Compounds, 2010, 495, 334-337.	2.8	17
22	Microstructural Evolution and Mechanical Behaviour of Metastable Cuâ€“Zrâ€“Co Alloys. Journal of Materials Science and Technology, 2014, 30, 584-589.	5.6	17
23	Prediction of good glass formers in the Al-Ni-La and Al-Ni-Gd systems using topological instability and electronegativity. Journal of Applied Physics, 2011, 109, .	1.1	11
24	Structural evolution in Ti-Cu-Ni metallic glasses during heating. APL Materials, 2015, 3, .	2.2	11
25	On the valence electron theory to estimate the transformation temperatures of Cuâ€“Al-based shape memory alloys. Journal of Materials Research, 2017, 32, 3165-3174.	1.2	11
26	Comparison of Cuâ€“Alâ€“Niâ€“Mnâ€“Zr shape memory alloy prepared by selective laser melting and conventional powder metallurgy. Transactions of Nonferrous Metals Society of China, 2020, 30, 3322-3332.	1.7	11
27	Predicted glass-forming ability of Cu-Zr-Co alloys and their crystallization behavior. Journal of Applied Physics, 2013, 113, 123505.	1.1	10
28	Phase Separation in Rapid Solidified Ag-rich Ag-Cu-Zr Alloys. Materials Research, 2015, 18, 120-126.	0.6	10
29	Effect of dislocations and residual stresses on the martensitic transformation of Cu-Al-Ni-Mn shape memory alloy powders. Journal of Alloys and Compounds, 2017, 723, 841-849.	2.8	10
30	Oligocrystalline microstructure in an additively manufactured biocompatible Ti-Nb-Zr-Ta alloy. Materials Letters, 2020, 262, 127149.	1.3	10
31	Effect of Al and Ag addition on phase formation, thermal stability, and mechanical properties of Cuâ€“Zr-based bulk metallic glasses. Journal of Materials Research, 2011, 26, 1702-1710.	1.2	9
32	Glass formation in the Tiâ€“Cu system with and without Si additions. Journal of Alloys and Compounds, 2015, 618, 413-420.	2.8	9
33	Microstructure and properties of TiB2-reinforced Tiâ€“35Nbâ€“7Zrâ€“5Ta processed by laser-powder bed fusion. Journal of Materials Research, 2022, 37, 259-271.	1.2	8
34	Predicting glass-forming compositions in the Alâ€“La and Alâ€“Laâ€“Ni systems. Journal of Alloys and Compounds, 2011, 509, S170-S174.	2.8	6
35	Laser Cladding of Fe-based Metallic Glass/MoS2 Self-lubricating Composites: Effect of Power and Scanning Speed. Materials Research, 2017, 20, 836-841.	0.6	3
36	Selection of new glass-forming compositions in Alâ€“La system using a combination of topological instability and thermodynamic criteria. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 512, 53-57.	2.6	2

#	Article	IF	Citations
37	Phase formation in rapid solidified Agâ€“Y alloys. Journal of Applied Physics, 2013, 113, 104308.	1.1	2
38	Effect of Co additions on the phase formation, thermal stability, and mechanical properties of rapidly solidified Tiâ€“Cu-based alloys. Journal of Materials Research, 2017, 32, 2578-2584.	1.2	2
39	Microstructural Evolution and Mechanical Properties of Ni57Nb33Zr5Co5 Metallic Glass. Materials Research, 2017, 20, 244-247.	0.6	2
40	Manufatura Aditiva de AÃ§o InoxidÃ¡vel 316L por FusÃ£o Seletiva a Laser. Soldagem E Inspecao, 0, 25, .	0.6	2
41	Effect of minor Si additions and cooling rate on the phase formation and properties of glass former Ni57Nb33Zr5Co5 alloy. Journal of Alloys and Compounds, 2019, 787, 918-927.	2.8	1
42	Efeito da Taxa de Resfriamento na Liga Ni80Cu20 via DinÃ¢mica Molecular. Revista Materia, 2019, 24, .	0.1	1
43	Characterization of AlCoCrFeNi High Entropy Alloy Gas Atomized Powder. Materials Research, 0, 25, .	0.6	1
44	Microstructural Characterization of a Laser Surface Remelted Cu-Based Shape Memory Alloy. Materials Research, 2018, 21, .	0.6	0
45	Characterization Alloys of the Sn-Zn System Produced by Melt Spinning. Materials Research, 2019, 22, .	0.6	0