

Piter Gargarella

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.

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 | 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 |
| 39 | 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 |
| 38 | Oligocrystalline microstructure in an additively manufactured biocompatible Ti-Nb-Zr-Ta alloy. <i>Materials Letters</i> , 2020 , 262, 127149 | 3.3 | 5 |
| 37 | 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 |
| 36 | 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 |
| 35 | 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 |
| 34 | On the valence electron theory to estimate the transformation temperatures of Cu ₄₀ Al-based shape memory alloys. <i>Journal of Materials Research</i> , 2017 , 32, 3165-3174 | 2.5 | 7 |
| 33 | 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 |
| 32 | 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 |
| 31 | 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 |
| 30 | 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 |
| 29 | Glass-forming ability, thermal stability of B2 CuZr phase, and crystallization kinetics for rapidly solidified Cu ₄₀ Zr ₂₀ Ni alloys. <i>Journal of Alloys and Compounds</i> , 2016 , 664, 99-108 | 5.7 | 29 |
| 28 | 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 |
| 27 | 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 |
| 26 | 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 |
| 25 | 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 |
| 24 | Thermodynamic analysis of the effect of annealing on the thermal stability of a Cu ₄₀ Al ₁₀ Ni ₁₀ Mn ₂₀ Zr shape memory alloy. <i>Thermochimica Acta</i> , 2015 , 608, 1-6 | 2.9 | 25 |

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| 23 | 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 |
| 22 | Phase Separation in Rapid Solidified Ag-rich Ag-Cu-Zr Alloys. <i>Materials Research</i> , 2015 , 18, 120-126 | 1.5 | 7 |
| 21 | 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 |
| 20 | Structural evolution in Ti-Cu-Ni metallic glasses during heating. <i>APL Materials</i> , 2015 , 3, 016101 | 5.7 | 11 |
| 19 | Phase formation and mechanical properties of TiCuNiZr bulk metallic glass composites. <i>Acta Materialia</i> , 2014 , 65, 259-269 | 8.4 | 66 |
| 18 | Formation of Fe-based glassy matrix composite coatings by laser processing. <i>Surface and Coatings Technology</i> , 2014 , 240, 336-343 | 4.4 | 39 |
| 17 | Spray forming of Cu ₁ 1.85Al _{0.2} Ni _{0.2} Mn (wt%) shape memory alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 615, S602-S606 | 5.7 | 27 |
| 16 | Microstructural Evolution and Mechanical Behaviour of Metastable CuZrCo Alloys. <i>Journal of Materials Science and Technology</i> , 2014 , 30, 584-589 | 9.1 | 15 |
| 15 | Phase formation in rapid solidified Ag ₀ alloys. <i>Journal of Applied Physics</i> , 2013 , 113, 104308 | 2.5 | 2 |
| 14 | 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 |
| 13 | 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 |
| 12 | TiCuNi shape memory bulk metallic glass composites. <i>Acta Materialia</i> , 2013 , 61, 151-162 | 8.4 | 71 |
| 11 | 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 |
| 10 | Predicting glass-forming compositions in the Al ₀ a and Al ₀ a ₀ Ni systems. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S170-S174 | 5.7 | 6 |
| 9 | Significant tensile ductility induced by cold rolling in Cu _{47.5} Zr _{47.5} Al ₅ bulk metallic glass. <i>Intermetallics</i> , 2011 , 19, 1394-1398 | 3.5 | 75 |
| 8 | 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 |
| 7 | 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 |
| 6 | Effect of Al and Ag addition on phase formation, thermal stability, and mechanical properties of CuZr-based bulk metallic glasses. <i>Journal of Materials Research</i> , 2011 , 26, 1702-1710 | 2.5 | 8 |

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| 5 | 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 |
| 4 | Crystallisation behaviour and glass-forming ability in Al ₉₀ Ni system. <i>Journal of Alloys and Compounds</i> , 2010 , 495, 334-337 | 5.7 | 16 |
| 3 | 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 |
| 2 | Selection of new glass-forming compositions in Al ₉₀ 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 |
| 1 | Microstructure and properties of TiB ₂ -reinforced Ti ₃₅ Nb ₁₀ Zr ₅ Ta processed by laser-powder bed fusion. <i>Journal of Materials Research</i> , 1 | 2.5 | 0 |