# Livio Battezzati

## List of Publications by Year in descending order

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|---|---|---|---|
| 158 papers | 3,294 citations | 172457 29 h-index | 223800 46 g-index |
| 168 all docs | 168 docs citations | 168 times ranked | 2252 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The viscosity of liquid metals and alloys. Acta Metallurgica, 1989, 37, 1791-1802. | 2.1 | 320 |
| 2 | A comparison of Selective Laser Melting with bulk rapid solidification of AlSi10Mg alloy. Journal of Alloys and Compounds, 2018, 742, 271-279. | 5.5 | 123 |
| 3 | Solid state reactions in Al/Ni alternate foils induced by cold rolling and annealing. Acta Materialia, 1999, 47, 1901-1914. | 7.9 | 102 |
| 4 | Thermodynamic analysis of the stable and metastable Coâ€“Cu and Coâ€“Cuâ€“Fe phase diagrams. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2006, 30, 171-178. | 1.6 | 94 |
| 5 | Mechanical alloying of the Alâ€“Ti system. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1990, 61, 473-486. | 0.6 | 78 |
| 6 | Equilibrium conformation and surface motion of hydrocarbon molecules physisorbed on graphit. Journal of the Chemical Society, Faraday Transactions 2, 1975, 71, 1629. | 1.1 | 76 |
| 7 | X-ray diffraction study of the amorphization process by mechanical alloying of the Niî—¸Ti system. Materials Science and Engineering, 1988, 97, 43-46. | 0.1 | 56 |
| 8 | Thermodynamics and mechanism of demixing in undercooled Cuâ€“Coâ€“Ni alloys. Acta Materialia, 2007, 55, 6642-6650. | 7.9 | 47 |
| 9 | The mechanism of generating nanoporous Au by de-alloying amorphous alloys. Acta Materialia, 2016, 119, 177-183. | 7.9 | 44 |
| 10 | Kinetics of formation and thermal stability of Fe-X-B metallic glasses. Journal of Non-Crystalline Solids, 1987, 89, 114-130. | 3.1 | 42 |
| 11 | Crystallization behaviour of Alî—¸Sm amorphous alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 179-180, 600-604. | 5.6 | 42 |
| 12 | Kinetics of abnormal grain growth in pure iron. Journal of Materials Science, 1979, 14, 86-90. | 3.7 | 41 |
| 13 | Thermodynamics and kinetics of metallic amorphous phases in the framework of the CALPHAD approach. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2008, 32, 295-314. | 1.6 | 41 |
| 14 | â€œBig cubeâ€•phase formation in Zr-based metallic glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 305-310. | 5.6 | 40 |
| 15 | Non-stoichiometric cementite by rapid solidification of cast iron. Acta Materialia, 2005, 53, 1849-1856. | 7.9 | 40 |
| 16 | Liquid-liquid phase separation and remixing in the Cu-Co system. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2006, 37, 2361-2368. | 2.2 | 40 |
| 17 | Is There a Link between Melt Fragility and Elastic Properties of Metallic Glasses?. Materials Transactions, 2005, 46, 2915-2919. | 1.2 | 38 |
| 18 | The liquid metastable miscibility gap in Cu-based systems. Fluid Phase Equilibria, 2007, 256, 132-136. | 2.5 | 37 |

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| 19 | Synthesis of nanoporous gold by free corrosion of an amorphous precursor. Journal of Alloys and Compounds, 2014, 615, S142-S147. | 5.5 | 37 |
| 20 | A time-saving and cost-effective method to process alloys by Laser Powder Bed Fusion. Materials and Design, 2019, 181, 107949. | 7.0 | 37 |
| 21 | Static mechanical characterization of a bulk amorphous and nanocrystalline Zr40Ti14Ni11Cu10Be25 alloy. Scripta Materialia, 1997, 8, 447-456. | 0.5 | 36 |
| 22 | Phase selection in Alâ€“TMâ€“RE alloys: nanocrystalline Al versus intermetallics. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 574-578. | 5.6 | 36 |
| 23 | Nanoporous gold by dealloying of an amorphous precursor. Journal of Alloys and Compounds, 2014, 586, S117-S120. | 5.5 | 36 |
| 24 | Crystallization behaviour of Al87Ni7La6 and Al87Ni7Sm6 amorphous alloys. Scripta Materialia, 2004, 50, 839-843. | 5.2 | 35 |
| 25 | A comparison of de-alloying crystalline and amorphous multicomponent Au alloys. Intermetallics, 2015, 66, 82-87. | 3.9 | 34 |
| 26 | Assessment of the ternary Feâ€“Siâ€“B phase diagram. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2013, 43, 40-47. | 1.6 | 33 |
| 27 | Thermodynamic and dynamic fragility in metallic glass-formers. Acta Materialia, 2013, 61, 2260-2267. | 7.9 | 33 |
| 28 | De-alloying kinetics of an Au-based amorphous alloys. Journal of Alloys and Compounds, 2012, 536, S60-S64. | 5.5 | 32 |
| 29 | A DSC study of structural relaxation in metallic glasses prepared with different quenching rates. Journal of Non-Crystalline Solids, 1984, 61-62, 877-882. | 3.1 | 31 |
| 30 | Dealloying of an Au-based amorphous alloy. Intermetallics, 2010, 18, 2338-2342. | 3.9 | 31 |
| 31 | Residual stresses in additively manufactured AlSi10Mg: Raman spectroscopy and X-ray diffraction analysis. Materials and Design, 2021, 202, 109550. | 7.0 | 31 |
| 32 | Thermodynamic analysis and assessment of the Ceâ€“Ni system. Intermetallics, 2004, 12, 1367-1372. | 3.9 | 29 |
| 33 | Effect of cooling rate on the solidification of Cu58Co42. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 644-648. | 5.6 | 29 |
| 34 | Niî—¸Al intermetallics produced by cold-rolling elemental sheets. Intermetallics, 1995, 3, 67-71. | 3.9 | 28 |
| 35 | Crystals and nanocrystals in rapidly solidified Alî—¸Sm alloys. Scripta Materialia, 1998, 10, 767-776. | 0.5 | 28 |
| 36 | Excellent surface enhanced Raman scattering obtained with nanoporous gold fabricated by chemical de-alloying. Chemical Physics Letters, 2016, 665, 6-9. | 2.6 | 26 |

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| 37 | High performance SERS on nanoporous gold substrates synthesized by chemical de-alloying a Au-based metallic glass. Applied Surface Science, 2017, 426, 1113-1120. | 6.1 | 26 |
| 38 | Thermodynamic quantities frozenÂ·in upon vitrification of metallic alloys. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1985, 52, 1033-1045. | 0.6 | 25 |
| 39 | De-alloying of rapidly solidified amorphous and crystalline alloys. Journal of Alloys and Compounds, 2011, 509, S8-S12. | 5.5 | 25 |
| 40 | Thermodynamic aspects of metastable-phase formation. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1990, 61, 511-524. | 0.6 | 24 |
| 41 | Phase Transformations in Al<SUB>87</SUB>Ni<SUB>7</SUB>Ce<SUB>6</SUB> and Al<SUB>87</SUB>Ni<SUB>7</SUB>Nd<SUB>6</SUB> Amorphous Alloys. Materials Transactions, 2002, 43, 2593-2599. | 1.2 | 24 |
| 42 | A comparative study of primary Al precipitation in amorphous Al87Ni7La5Zr by means of WAXS, SAXS, TEM and DSC techniques. Acta Materialia, 2004, 52, 5031-5041. | 7.9 | 24 |
| 43 | The liquid metastable miscibility gap in the Cuâ€“Coâ€“Fe system. Journal of Materials Science, 2008, 43, 3253-3258. | 3.7 | 23 |
| 44 | Improving the chemical de-alloying of amorphous Au alloys. Corrosion Science, 2017, 127, 141-146. | 6.6 | 23 |
| 45 | Shape controlled gold nanostructures on de-alloyed nanoporous gold with excellent SERS performance. Chemical Physics Letters, 2018, 709, 46-51. | 2.6 | 23 |
| 46 | Thermodynamics of Te<sub>80</sub>Ge<sub>20 â^' x</sub> Pb<sub>x</sub> glass-forming alloys. Journal of Materials Research, 1988, 3, 570-575. | 2.6 | 22 |
| 47 | On the glass transition in metallic melts. Journal of Non-Crystalline Solids, 2007, 353, 3318-3326. | 3.1 | 22 |
| 48 | Role of crystalline precipitates on the mechanical properties of (Cu0.50Zr0.50)100â^'xAlx (x=4, 5, 7) bulk metallic glasses. Journal of Alloys and Compounds, 2011, 509, S99-S104. | 5.5 | 22 |
| 49 | Metastable microstructures containing zero valent iron for fast degradation of azo dyes. Journal of Materials Science, 2015, 50, 5238-5243. | 3.7 | 22 |
| 50 | Nanoporous gold obtained from a metallic glass precursor used as substrate for surface-enhanced Raman scattering. Philosophical Magazine Letters, 2015, 95, 474-482. | 1.2 | 22 |
| 51 | Thermodynamics of liquid alloys and glass formation. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1987, 56, 139-146. | 0.6 | 21 |
| 52 | Some thermodynamic and kinetic aspects of icosahedral phase nucleation in Al-Mn. Journal of Materials Science, 1989, 24, 2324-2330. | 3.7 | 21 |
| 53 | The difference in devitrification paths in Al87Ni7Sm6 and Al87Ni7La6 amorphous alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 927-931. | 5.6 | 21 |
| 54 | Undercooling and demixing in rapidly solidified Cuâ€“Co alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 7-11. | 5.6 | 21 |

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| 55 | Thermal analysis, fragility and viscosity of Au-based metallic glasses. Journal of Non-Crystalline Solids, 2010, 356, 2218-2222. | 3.1 | 21 |
| 56 | Functionalized nanoporous gold as a new biosensor platform for ultra-low quantitative detection of human serum albumin. Sensors and Actuators B: Chemical, 2019, 288, 460-468. | 7.8 | 21 |
| 57 | A computer method to determine the kinetic law of solid-state reactions from DSC curves. Thermochimica Acta, 1978, 23, 213-222. | 2.7 | 20 |
| 58 | Influence of preannealing on crystallization kinetics of some metallic glasses. Journal of Non-Crystalline Solids, 1981, 44, 287-295. | 3.1 | 20 |
| 59 | Calorimetric measurements on some undercooled metals and alloys. Journal of Alloys and Compounds, 1995, 220, 212-216. | 5.5 | 20 |
| 60 | Interplay of process kinetics in the undercooled melt in the proximity of the glass transition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 60-65. | 5.6 | 20 |
| 61 | Thermodynamic assessment of the Hâ€“Laâ€“Ni system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2009, 33, 162-169. | 1.6 | 20 |
| 62 | Thermodynamic properties of the Pd77.5Cu6Si16.5 undercooled liquid. Journal of Alloys and Compounds, 2009, 483, 54-56. | 5.5 | 20 |
| 63 | Interfacial properties of immiscible Coâ€“Cu alloys. Journal of Materials Science, 2010, 45, 1979-1985. | 3.7 | 20 |
| 64 | Partially and fully de-alloyed glassy ribbons based on Au: Application in methanol electro-oxidation studies. Journal of Alloys and Compounds, 2016, 667, 302-309. | 5.5 | 20 |
| 65 | Calorimetry of ordering and disordering in AuCu alloys. Scripta Materialia, 2001, 44, 2759-2764. | 5.2 | 19 |
| 66 | A shape memory gold alloy processed by rapid solidification. Journal of Alloys and Compounds, 2007, 434-435, 264-267. | 5.5 | 19 |
| 67 | X-Ray absorption spectroscopy and diffraction study of miscible and immiscible binary metallic systems prepared by ball milling. Spectrochimica Acta Part A: Molecular Spectroscopy, 1993, 49, 1331-1344. | 0.1 | 18 |
| 68 | Devitrification of Al-Ni-Rare earth amorphous alloys. Journal of Materials Science, 2004, 39, 3927-3934. | 3.7 | 18 |
| 69 | Electrodeposited platinum on de-alloyed nanoporous gold with enhanced electro-catalytic performance. Applied Surface Science, 2019, 476, 412-417. | 6.1 | 18 |
| 70 | A statistical investigation of normal and abnormal grain growth in iron. Journal of Materials Science, 1980, 15, 1730-1735. | 3.7 | 17 |
| 71 | On the influence of gaseous impurities in the amorphization reaction of some titanium-based alloys. Journal of Alloys and Compounds, 1993, 194, 311-317. | 5.5 | 17 |
| 72 | Thermodynamics of Homogeneous Crystal Nucleation in Al-RE Metallic Glasses. Materials Science Forum, 1998, 269-272, 553-558. | 0.3 | 17 |

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| 73 | Multicomponent phase selection theory applied to high nitrogen and high manganese stainless steels. Scripta Materialia, 2006, 55, 839-842. | 5.2 | 17 |
| 74 | Amorphous molybdenum sulphide @ nanoporous gold as catalyst for hydrogen evolution reaction in acidic environment. Journal of Materials Science, 2018, 53, 12388-12398. | 3.7 | 17 |
| 75 | Structure and stability of rapidly solidified Alâ€”Si based alloys. Journal of Materials Science Letters, 1986, 5, 586-588. | 0.5 | 16 |
| 76 | Investigation on structural changes in amorphous tetrahedral alloys by means of differential scanning calorimetry. Journal of Non-Crystalline Solids, 1991, 137-138, 87-90. | 3.1 | 16 |
| 77 | The influence of hydrogen contamination on the amorphization reaction of CuTi alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 134, 859-862. | 5.6 | 16 |
| 78 | Thermodynamics of undercooled melts and metastable phase formation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 178, 43-49. | 5.6 | 16 |
| 79 | Microstructures in rapidly solidified AISI 304 interpreted according to phase selection theory. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 999-1002. | 5.6 | 16 |
| 80 | Quantitative evaluation of lengthscales for temperature rise in shear bands and for failure of metallic glasses. Scripta Materialia, 2008, 59, 223-226. | 5.2 | 16 |
| 81 | Formation and stability of Alî—¸Nd and Alî—¸Ndî—¸Fe metallic glasses. Journal of Alloys and Compounds, 1994, 209, 341-349. | 5.5 | 15 |
| 82 | Thermophysical properties of some Ni-based superalloys in the liquid state relevant for solidification processing. Journal of Materials Science, 2016, 51, 1680-1691. | 3.7 | 15 |
| 83 | Differential scanning calorimetry (DSC) studies of hydrogenated amorphous semiconductor alloys. Physica B: Condensed Matter, 1992, 176, 73-77. | 2.7 | 14 |
| 84 | Alloying AlSi10Mg and Cu powders in laser Single Scan Tracks, melt spinning, and Laser Powder Bed Fusion. Journal of Alloys and Compounds, 2020, 821, 153538. | 5.5 | 14 |
| 85 | Evidence of chemical short-range order in amorphous CuTi alloys produced by mechanical alloying. Journal of Physics Condensed Matter, 1992, 4, 1635-1645. | 1.8 | 13 |
| 86 | Rheology of tellurite glasses. Materials Research Bulletin, 2000, 35, 2343-2351. | 5.2 | 13 |
| 87 | Thermodynamic quantities in nucleation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 103-107. | 5.6 | 13 |
| 88 | Mechanical properties of Al based amorphous and devitrified alloys containing different rare earth elements. Journal of Non-Crystalline Solids, 2004, 344, 94-100. | 3.1 | 13 |
| 89 | Structural and thermodynamic aspects of glass formation in Cuî—¸Tiî—¸H: role of hydrogen in mechanical alloying. Journal of Non-Crystalline Solids, 1993, 156-158, 527-531. | 3.1 | 12 |
| 90 | Glass ceramics for optical amplifiers: rheological, thermal, and optical properties. Journal of Non-Crystalline Solids, 1999, 256-257, 170-175. | 3.1 | 12 |

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| 91 | Undercooling and demixing of copper-based alloys. Microgravity Science and Technology, 2006, 18, 174-177. | 1.4 | 12 |
| 92 | Microhardness and devitrification studies of Alâ€“TMâ€“RE alloys. Journal of Alloys and Compounds, 2007, 434-435, 36-39. | 5.5 | 12 |
| 93 | Phase constitution and glass formation in an Au-based alloy. Journal of Alloys and Compounds, 2011, 509, S166-S169. | 5.5 | 11 |
| 94 | Nucleation of crystals in deeply undercooled alloy melts. Journal of Materials Science, 2005, 40, 2431-2435. | 3.7 | 10 |
| 95 | Engraving of a Pd77.5Cu6Si16.5 Bulk Metallic Glass. Advanced Engineering Materials, 2007, 9, 509-511. | 3.5 | 10 |
| 96 | Thermodynamic, transport and mechanical properties of amorphous metallic alloys: Relation to the glass transition. Journal of Alloys and Compounds, 2010, 495, 294-298. | 5.5 | 10 |
| 97 | Relationship between thermophysical and mechanical properties of metallic glasses. Journal of Alloys and Compounds, 2010, 504, S48-S51. | 5.5 | 10 |
| 98 | Nanoporous gold chemically de-alloyed from Au-based amorphous thin film for electrochemical nonenzymatic H2O2 sensing. Chemical Physics Letters, 2019, 723, 22-27. | 2.6 | 10 |
| 99 | Effects of temperature on structural properties of hydrogenated amorphous siliconâ€germanium and carbonâ€siliconâ€germanium alloys. Journal of Applied Physics, 1991, 69, 2029-2032. | 2.5 | 9 |
| 100 | Thermal effects due to tempering of austenite and martensite in austempered ductile irons. Materials Science and Technology, 1999, 15, 643-646. | 1.6 | 9 |
| 101 | Mechanical properties of Al-based amorphous/nanocrystalline alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 969-974. | 5.6 | 9 |
| 102 | A study of the Î±â€‰â†”â€‰Î³ transformation in pure iron: rate variations revealed by means of thermal analysis. Philosophical Magazine, 2007, 87, 1601-1618. | 1.6 | 9 |
| 103 | Microstructures in laser welded high strength steels. Journal of Physics: Conference Series, 2009, 144, 012005. | 0.4 | 9 |
| 104 | Thermodynamics of the Au49Ag5.5Pd2.3Cu26.9Si16.3 glass-forming alloy. Journal of Non-Crystalline Solids, 2013, 382, 95-98. | 3.1 | 9 |
| 105 | Banded microstructures in rapidly solidified Al-3 wt% Er. Intermetallics, 2020, 119, 106724. | 3.9 | 9 |
| 106 | Crystallization behaviour of fluorozirconate glasses. Journal of Non-Crystalline Solids, 1993, 161, 60-65. | 3.1 | 8 |
| 107 | Highly Refined Microstructures in Devitrified Alloys. Materials Research Society Symposia Proceedings, 1995, 400, 191. | 0.1 | 8 |
| 108 | Rapid solidification of alloys. International Journal of Materials and Product Technology, 2004, 20, 358. | 0.2 | 8 |

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| 109 | Thermodynamic and ab initio investigation of the Cuâ€“Dy system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2009, 33, 511-516. | 1.6 | 8 |
| 110 | On thermophysical and mechanical properties of glass-forming alloys. Journal of Alloys and Compounds, 2009, 483, 222-226. | 5.5 | 8 |
| 111 | XPS study of gold-based metallic glass. Surface and Interface Analysis, 2010, 42, 597-600. | 1.8 | 8 |
| 112 | Thermodynamics and fragility of glass-forming alloys. Journal of Alloys and Compounds, 2014, 586, S9-S13. | 5.5 | 8 |
| 113 | Thermodynamics and fragility of Fe-based glass forming melts. Journal of Non-Crystalline Solids, 2016, 433, 103-108. | 3.1 | 8 |
| 114 | Microstructure and electrochemical properties of nanoporous gold produced by dealloying Au-based thin film nanoglass. Journal of Materials Research, 2018, 33, 2661-2670. | 2.6 | 8 |
| 115 | Etude calorimetrique et cinetique de la recristallisation du cuivre par analyse calorimetrique differentielle (DSC). Journal of Theoretical Biology, 1978, 14, 93-97. | 1.7 | 7 |
| 116 | Thermodynamics of the Gd63.2Co36.8 glass-forming eutectic. Scripta Metallurgica, 1987, 21, 849-852. | 1.2 | 7 |
| 117 | The effect of absorbed hydrogen on the amorphization of CuTi alloys. Journal of Physics Condensed Matter, 1992, 4, 5239-5248. | 1.8 | 7 |
| 118 | Measurement of thermophysical properties of liquid metallic alloys in a ground- and microgravity based research programme â€" theThermoLab project. Microgravity Science and Technology, 2005, 16, 7-10. | 1.4 | 7 |
| 119 | A Contribution for a Better Understanding of the Automotive Friction Material Characteristics Connected to Problems Deriving from Disc-Scoring Phenomena. , 0, , . | | 7 |
| 120 | Constrained deformation of an Al based amorphous alloy by cold rolling. Journal of Alloys and Compounds, 2011, 509, S275-S278. | 5.5 | 7 |
| 121 | Ductility and toughness of cold-rolled metallic glasses. Intermetallics, 2013, 33, 38-43. | 3.9 | 7 |
| 122 | Processing a Fe67Mo4.5Cr2.3Al2Si3C7P8.7B5.5 metallic glass: Experimental and computed TTT and CCT curves. Journal of Alloys and Compounds, 2020, 843, 156061. | 5.5 | 7 |
| 123 | Quasicrystals and stable phases in Al81Mn14Si5. Scripta Metallurgica, 1988, 22, 623-626. | 1.2 | 6 |
| 124 | A nanocrystalline fcc phase via devitrification of a Ni36Fe32Ta7Si8B17 amorphous alloy. Scripta Materialia, 1999, 11, 747-755. | 0.5 | 6 |
| 125 | Nucleation and growth of crystals in a ZBLYALiPb glass. Journal of Non-Crystalline Solids, 2001, 289, 144-150. | 3.1 | 6 |
| 126 | Rapid Solidification of Au Alloys. Journal of Metastable and Nanocrystalline Materials, 2005, 24-25, 37-42. | 0.1 | 6 |

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| 127 | Effect of minor elements addition on glass formation and properties of gold alloys. Journal of Physics: Conference Series, 2009, 144, 012039. | 0.4 | 6 |
| 128 | Thermophysical Properties of a Feâ€Crâ€Mo Alloy in the Solid and Liquid Phase. Steel Research International, 2012, 83, 43-54. | 1.8 | 6 |
| 129 | Ion release and tarnishing behavior of Au and Pd based amorphous alloys in artificial sweat. Corrosion Science, 2013, 77, 135-142. | 6.6 | 6 |
| 130 | Comparing selective corrosion of Au-based amorphous, partially amorphous, and devitrified alloys. Journal of Alloys and Compounds, 2018, 745, 212-216. | 5.5 | 6 |
| 131 | Nucleation and growth of crystals in a ZBLYAN glass. Journal of Non-Crystalline Solids, 1997, 213-214, 79-84. | 3.1 | 5 |
| 132 | Microstructure and Thermal Stability of 'Nanocrystalline' Electrodeposited Au-Cu Alloys. Materials Science Forum, 2001, 360-362, 253-260. | 0.3 | 5 |
| 133 | Banded regular/anomalous eutectic in rapidly solidified Co-61.8 at.% Si. Scripta Materialia, 2019, 168, 100-103. | 5.2 | 5 |
| 134 | The Crystallization of Al-Sm Amorphous Alloys. Materials Science Forum, 1995, 195, 111-116. | 0.3 | 4 |
| 135 | Resistometric and Calorimetric Analysis of Phase Transformations in AuCu Alloys. International Journal of Materials Research, 2003, 94, 449-452. | 0.8 | 4 |
| 136 | Thermophysical properties of materials. Europhysics News, 2008, 39, 19-21. | 0.3 | 4 |
| 137 | Fracture Behavior in Cu46.5Zr46.5Al7 and Cu46.5Zr41.5Al7Y5 Bulk Metallic Glasses. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 1767-1774. | 2.2 | 4 |
| 138 | An entropy driven phase transformation in a Au43.3Cu31.8Al24.9 shape-memory alloy. Intermetallics, 2011, 19, 1978-1982. | 3.9 | 4 |
| 139 | Thermodynamic Issues in Nanocrystalline Materials. Materials Science Forum, 1997, 235-238, 317-326. | 0.3 | 3 |
| 140 | Solidification experiments for the study of phase selection in cast iron. International Journal of Cast Metals Research, 2003, 16, 125-129. | 1.0 | 3 |
| 141 | Hardening phases in some Ni-free 14 carat white gold alloys. Intermetallics, 2004, 12, 327-332. | 3.9 | 3 |
| 142 | Mechanical behaviour of metallic glasses related to thermal properties. Journal of Physics: Conference Series, 2009, 144, 012088. | 0.4 | 3 |
| 143 | Formation, Timeâ€“Temperatureâ€“Transformation curves and magnetic properties of FeCoNbSiBP metallic glasses. Journal of Alloys and Compounds, 2015, 619, 437-442. | 5.5 | 3 |
| 144 | Surface amorphous and crystalline structures in laser glazed Fe-Ni-P-B and Fe-Ni-Cr-P-B alloys. Journal of Materials Science Letters, 1984, 3, 141-144. | 0.5 | 2 |

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| 145 | Enthalpic study of structural relaxation and crystallization in some metallic glasses. Journal of Thermal Analysis, 1985, 30, 1259-1266. | 0.6 | 2 |
| 146 | Thermodynamics of an Amorphous Alloy Studied by Drop Calorimetry and DSC. Materials Science Forum, 1999, 307, 37-42. | 0.3 | 2 |
| 147 | Calorimetry of Undercooled Metals and Alloys. Materials Science Forum, 2000, 329-330, 507-512. | 0.3 | 2 |
| 148 | The Solidification in the Presence of a Metastable Miscibility Gap: The Case of Co-Cu and Co-Cu-X Alloys. Materials Science Forum, 0, 649, 41-46. | 0.3 | 2 |
| 149 | EFFECT OF QUENCHING RATE ON THE GLASS TRANSITION AND CRYSTALLIZATION TEMPERATURES OF Fe-B BASED METALLIC GLASSES++Work supported by â€œCNR-Progetto Finalizzato Metallurgiaâ€. , 1985, , 239-242. | | 2 |
| 150 | Breaking Down SERS Detection Limit: Engineering of a Nanoporous Platform for High Sensing and Technology. Nanomaterials, 2022, 12, 1737. | 4.1 | 2 |
| 151 | Al-Rare Earth-Transition Metal Alloys: Fragility of Melts and Resistance to Crystallization. , 2005, , 267-278. | | 1 |
| 152 | AN ANALYSIS OF THERMOPHYSICAL AND MECHANICAL PROPERTIES OF GLASS-FORMING ALLOYS. Materials Research Society Symposia Proceedings, 2007, 1048, 8. | 0.1 | 1 |
| 153 | The 13th International Conference on Rapidly Quenched and Metastable Materials. Journal of Physics: Conference Series, 2009, 144, 011001. | 0.4 | 1 |
| 154 | Amorphisation and Devitrification of Al-Transition Metal- Rare Earth Alloys. Materials Research Society Symposia Proceedings, 2003, 806, 83. | 0.1 | 0 |
| 155 | Multicomponent phase selection theory and microsegregation of AISI 304 type austenitc stainless steels. International Journal of Cast Metals Research, 2007, 20, 136-139. | 1.0 | 0 |
| 156 | Influence of current annealing on the magnetic properties of amorphous and crystalline soft thin films. , 2015, , . | | 0 |
| 157 | Microstructure of slow-cooled wedge-cast Cu58Co42 alloy with a metastable liquid miscibility gap. , 2008, , 437-438. | | 0 |
| 158 | Resistometric and calorimetric analysis of phase transformations in AuCu alloys. International Journal of Materials Research, 2022, 94, 449-452. | 0.3 | 0 |