

Xinying Teng

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5218070/publications.pdf>

Version: 2024-02-01

69
papers

924
citations

516215

16
h-index

525886

27
g-index

69
all docs

69
docs citations

69
times ranked

893
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Effect of Al ₂ O ₃ particle size on the mechanical properties of alumina-based ceramics. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 452-453, 545-551. | 2.6 | 103 |
| 2 | Effect of P and Sr complex modification on Si phase in hypereutectic Al-30Si alloys. <i>Materials & Design</i> , 2013, 47, 857-864. | 5.1 | 80 |
| 3 | Crystallization kinetics of an amorphous Zr-Cu-Ni alloy: calculation of the activation energy. <i>Journal of Alloys and Compounds</i> , 2003, 353, 200-206. | 2.8 | 72 |
| 4 | Fabrication and reliability evaluation of CoSb ₃ /W-Cu thermoelectric element. <i>Journal of Alloys and Compounds</i> , 2012, 517, 198-203. | 2.8 | 55 |
| 5 | Effect of Gd addition on microstructure and corrosion behaviors of Mg-Zn-Y alloy. <i>Journal of Magnesium and Alloys</i> , 2016, 4, 319-325. | 5.5 | 47 |
| 6 | Microstructure transformations in the heat-treated Mg-Zn-Y alloy. <i>Journal of Alloys and Compounds</i> , 2013, 577, 498-506. | 2.8 | 43 |
| 7 | Effect of melt superheating treatment on solidification structures of Al 75 Bi 9 Sn 16 immiscible alloy. <i>Journal of Molecular Liquids</i> , 2017, 232, 457-461. | 2.3 | 25 |
| 8 | Synthesis and thermoelectric properties of tantalum-doped ZrNiSn half-Heusler alloys. <i>Functional Materials Letters</i> , 2014, 07, 1450032. | 0.7 | 24 |
| 9 | Effect of special microstructure on the mechanical properties of nanocomposite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 487, 258-263. | 2.6 | 23 |
| 10 | Strain partitioning behavior of in situ Ti ₅ Si ₃ /TiAl composites. <i>Journal of Alloys and Compounds</i> , 2018, 744, 182-186. | 2.8 | 21 |
| 11 | Crystallization processes in amorphous Zr ₅₄ Cu ₄₆ alloy. <i>Journal of Non-Crystalline Solids</i> , 2002, 311, 36-41. | 1.5 | 20 |
| 12 | Fabrication and mechanical properties of Al ₂ O ₃ /Ti(CO.7N0.3) nanocomposites. <i>Materials Research Bulletin</i> , 2006, 41, 1215-1224. | 2.7 | 19 |
| 13 | Liquid-liquid structure transition and its effect on the solidification behaviors and microstructure of Sn ₇₅ Bi ₂₅ alloy. <i>Journal of Molecular Liquids</i> , 2018, 263, 218-227. | 2.3 | 18 |
| 14 | Effect of Mg-Zn-Nd Quasicrystal Addition on Corrosion Resistance of AZ91 Alloys. <i>Rare Metal Materials and Engineering</i> , 2014, 43, 791-795. | 0.8 | 17 |
| 15 | Viscous feature of Sb-Bi alloy under magnetic field. <i>Materials Letters</i> , 2008, 62, 73-76. | 1.3 | 16 |
| 16 | Temperature dependence of resistivity and crystallization behaviors of amorphous melt-spun ribbon of Mg ₆₆ Zn ₃₀ Gd ₄ alloy. <i>Materials Letters</i> , 2017, 189, 17-20. | 1.3 | 16 |
| 17 | Effect of carbon on the microstructural evolution of Zr _{66.7} Ni _{33.3} C (x= 0, 1, 3) alloys during mechanical alloying. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 3984-3989. | 1.5 | 15 |
| 18 | Protective properties of magnetron-sputtered Ti coating on CoSb ₃ thermoelectric material. <i>Applied Surface Science</i> , 2014, 305, 86-92. | 3.1 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Nanoscale strain characterization of Ti3Al precipitate-reinforced Ti alloys. <i>Materials Letters</i> , 2017, 209, 182-184. | 1.3 | 14 |
| 20 | High stability of Zr ₂ Ni nanocrystals in metallic Zr-Cu-Ni glass. <i>Journal of Alloys and Compounds</i> , 2003, 349, 140-144. | 2.8 | 13 |
| 21 | Synthesis and thermoelectric properties of GaxCo ₄ Sb _{11.7} Te _{0.3} skutterudites. <i>Intermetallics</i> , 2012, 26, 31-35. | 1.8 | 13 |
| 22 | Solidification and microstructure of as-cast Mg ₆₅ Zn ₃₂ Y ₃ quasicrystal alloy. <i>Physica B: Condensed Matter</i> , 2013, 420, 64-69. | 1.3 | 13 |
| 23 | Liquid phase transition of Sn ₅₀ Bi ₅₀ hypereutectic alloy and its thermodynamic and kinetic aspects. <i>Journal of Molecular Liquids</i> , 2018, 251, 185-189. | 2.3 | 13 |
| 24 | Microstructure and mechanical properties of Mg-Cu-Zn-Y alloy containing LPSO phase and I-phase. <i>Materials Research Express</i> , 2017, 4, 086502. | 0.8 | 12 |
| 25 | Short-Range and Medium-Range Order in Liquid Cu-Ni Alloy. <i>Chinese Physics Letters</i> , 2002, 19, 233-235. | 1.3 | 11 |
| 26 | Effect of graphene addition on properties of Cu-based composites for electrical contacts. <i>Materials Research Express</i> , 2017, 4, 066506. | 0.8 | 11 |
| 27 | Grain refining effects of the melt thermal-rate treatment and Al-Ti-B-Y refiner in as-cast Al-9Si-0.5Mg alloy. <i>Materials Research Express</i> , 2018, 5, 066520. | 0.8 | 11 |
| 28 | Formation of nanocrystals in metallic Zr-Cu-Ni glass. <i>Journal of Alloys and Compounds</i> , 2002, 347, 101-104. | 2.8 | 10 |
| 29 | Growth mechanism of an icosahedral quasicrystal and solute partitioning in a Mg-rich Mg-Cu-Zn-Y alloy. <i>Journal of Materials Research</i> , 2014, 29, 942-949. | 1.2 | 10 |
| 30 | Effects of WO ₃ Micro/Nano-Inclusions on the Thermoelectric Properties of Co ₄ Sb _{11.7} Te _{0.3} Skutterudite. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 3076-3080. | 0.9 | 10 |
| 31 | High-Efficiency Inhibition of Gravity Segregation in Al-Bi Immiscible Alloys by Adding Lanthanum. <i>Metals and Materials International</i> , 2018, 24, 1262-1274. | 1.8 | 9 |
| 32 | Metastable microheterogeneity in liquid monotectic Bi-Ga alloys. <i>International Journal of Cast Metals Research</i> , 2011, 24, 65-69. | 0.5 | 8 |
| 33 | Effects of Mg-Cu-Zn-Y quasicrystal addition on the microstructures, mechanical performances and corrosion behaviors of as-cast AM60 magnesium alloy. <i>Materials Research Express</i> , 2018, 5, 106512. | 0.8 | 8 |
| 34 | Nano ZnO-assisted formation of zinc phosphate conversion coating for improving corrosion protection of AZ91D magnesium alloy. <i>Materials Research Express</i> , 2019, 6, 086405. | 0.8 | 8 |
| 35 | Characterizing the interactions of edge dislocation dipole in hexagonal close packed Ti-Al alloys. <i>Materials and Design</i> , 2019, 164, 107559. | 3.3 | 8 |
| 36 | Effects of Graphene Nanoplates on the Mechanical Behavior and Strengthening Mechanism of 7075Al Alloy. <i>Materials</i> , 2020, 13, 5808. | 1.3 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Refinement of primary Si in Cu-50Si alloys with novel Al-Zr-P master alloy. <i>Rare Metals</i> , 2013, 32, 252-257. | 3.6 | 7 |
| 38 | Correlation between the resistivity and the atomic clusters in liquid Cu-Sn alloys. <i>Physica B: Condensed Matter</i> , 2018, 537, 58-62. | 1.3 | 7 |
| 39 | Formulation of Al-Bi-Sn immiscible alloys versus the solidification behaviors and structures. <i>Journal of Materials Science</i> , 2019, 54, 4384-4399. | 1.7 | 7 |
| 40 | Effect of cooling rates on solidification and microstructure of rapidly solidified Mg ₅₇ Zn ₃₇ Y ₆ quasicrystal alloy. <i>Journal of Materials Research</i> , 2015, 30, 3324-3330. | 1.2 | 6 |
| 41 | Investigation on the modification behavior of A356.2 alloy with Yb-La composite modifier. <i>Materials Research Express</i> , 2018, 5, 016520. | 0.8 | 6 |
| 42 | Glass-forming ability and crystallization of Mg-Ni amorphous alloys with Y addition. <i>Rare Metals</i> , 2012, 31, 244-249. | 3.6 | 5 |
| 43 | Temperature dependence of the electrical resistivity of Mg-Zn-Y quasicrystal alloy. <i>Materials Letters</i> , 2014, 132, 334-337. | 1.3 | 5 |
| 44 | Protective properties of YSZ/Ti film deposited on CoSb ₃ thermoelectric material. <i>Corrosion Science</i> , 2015, 98, 163-169. | 3.0 | 5 |
| 45 | Investigation on the properties of nano copper matrix composite via vacuum arc melting method. <i>Materials Research Express</i> , 2017, 4, 106512. | 0.8 | 5 |
| 46 | Effects of Extrusion on Mechanical and Corrosion Resistance Properties of Biomedical Mg-Zn-Nd-xCa Alloys. <i>Materials</i> , 2019, 12, 1049. | 1.3 | 5 |
| 47 | Effect of Al on the Microstructure and Mechanical Properties of Mg-Sn-Ca-Mn Wrought Alloy. <i>Metals and Materials International</i> , 2022, 28, 1480-1487. | 1.8 | 5 |
| 48 | Effects of Te addition on microstructure and mechanical properties of AZ91 magnesium alloy. <i>Materials Research Express</i> , 2017, 4, 016503. | 0.8 | 4 |
| 49 | Effect of solution treatment on mechanical and corrosion resistance properties of Mg-Zn-Nd-Ca alloy. <i>Materials Research Express</i> , 2017, 4, 126510. | 0.8 | 4 |
| 50 | Effect of cooling rates and Zr addition on the microstructure and corrosion behaviors of the Mg-Zn-Gd alloys. <i>Materials Research Express</i> , 2018, 5, 016506. | 0.8 | 4 |
| 51 | Influence of in situ synthesized TiC on thermal stability and corrosion behavior of Zr ₆₀ Cu ₁₀ Al ₁₅ Ni ₁₅ amorphous composites. <i>Physica B: Condensed Matter</i> , 2014, 436, 47-53. | 1.3 | 3 |
| 52 | Effects of several nano-carbon materials on the microstructure and properties of copper. <i>Materials Research Express</i> , 2017, 4, 025801. | 0.8 | 3 |
| 53 | Melt holding time as an important factor on the formation of quasicrystal phase in Mg ₆₇ Zn ₃₀ Gd ₃ alloy. <i>Physica B: Condensed Matter</i> , 2018, 533, 28-32. | 1.3 | 3 |
| 54 | Strengthening effects of Y and Sr on Al-9Si-0.5Mg alloy. <i>Materials Research Express</i> , 2019, 6, 016538. | 0.8 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Effect of Ti and Zr elements with equal mass ratio on microstructure and corrosion resistance of Zn-1Al-3Mg alloy. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2021, 72, 585-595. | 0.8 | 3 |
| 56 | Effects of nickel on the crystallization of Zr70Cu20Ni10 amorphous alloy. <i>Chinese Physics B</i> , 2002, 11, 592-595. | 1.3 | 2 |
| 57 | Decomposition of metallic Zr-Cu-Ni glass. <i>Journal of Materials Science Letters</i> , 2002, 21, 1705-1707. | 0.5 | 2 |
| 58 | Influence of homogenising temperature on the microstructure of 7085 Al alloy. <i>Materials Research Innovations</i> , 2015, 19, S112-S116. | 1.0 | 2 |
| 59 | Study on the Anti-Poison Performance of Al-Y-P Master Alloy for Impurity Ca in Aluminum Alloys. <i>Materials</i> , 2017, 10, 1356. | 1.3 | 2 |
| 60 | The Study of A New Symmetrical Rod Phase in Mg-Zn-Gd Alloys. <i>Symmetry</i> , 2019, 11, 988. | 1.1 | 2 |
| 61 | Liquid phase separation and core-shell morphology of Al ₇₅ Bi ₉ Sn ₁₆ immiscible alloy. <i>Physics and Chemistry of Liquids</i> , 2020, 58, 230-245. | 0.4 | 2 |
| 62 | Effect of Al on the Glass Forming Ability of Zr-Ni-Cu-Al Alloys. <i>International Journal of Materials Research</i> , 2002, 93, 223-227. | 0.8 | 1 |
| 63 | Effect of tellurium on viscosity and liquid structure of GaSb melts. <i>Journal of Alloys and Compounds</i> , 2008, 453, 458-462. | 2.8 | 1 |
| 64 | Correlation of composition, cooling rate and superheating temperature with solidification behaviors and microstructures of Al-Bi-Sn ribbons. <i>Materials Research Express</i> , 2019, 6, 066539. | 0.8 | 1 |
| 65 | Rheology Feature of Simple Metal Melt. <i>Acta Metallurgica Sinica (English Letters)</i> , 2007, 20, 181-186. | 1.5 | 0 |
| 66 | Crystallization Behavior and Mechanical Properties of Mg _{86.33} Ni _{12.67} Y ₁ Amorphous Alloy. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2012, 22, 12-16. | 1.9 | 0 |
| 67 | A Study on the Formation of Symmetrical Rod Phase in Mg ₆₆ Zn ₃₀ Gd ₄ Alloy. <i>Physics of Metals and Metallography</i> , 2021, 122, 266-274. | 0.3 | 0 |
| 68 | Phase boundary sliding model controlled by diffusion solution zone in superplastic deformation. <i>Science Bulletin</i> , 2002, 47, 1228. | 1.7 | 0 |
| 69 | Effect of Cu Additions and Extrusion Treatment on the Microstructure and Mechanical Properties of Mg-6Sn-1Al Alloy. <i>Springer Proceedings in Physics</i> , 2019, , 257-271. | 0.1 | 0 |