

Xinying Teng

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Effect of Al on the Microstructure and Mechanical Properties of Mg ₆₆ Sn ₁₆ Ca ₁ Mn Wrought Alloy. <i>Metals and Materials International</i> , 2022, 28, 1480-1487.	1.8	5
2	Effect of Ti and Zr elements with equal mass ratio on microstructure and corrosion resistance of Zn ₁ Al ₃ Mg alloy. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2021, 72, 585-595.	0.8	3
3	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
4	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
5	Effects of Graphene Nanoplates on the Mechanical Behavior and Strengthening Mechanism of 7075Al Alloy. <i>Materials</i> , 2020, 13, 5808.	1.3	8
6	The Study of A New Symmetrical Rod Phase in Mg-Zn-Gd Alloys. <i>Symmetry</i> , 2019, 11, 988.	1.1	2
7	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
8	Correlation of composition, cooling rate and superheating temperature with solidification behaviors and microstructures of Al ₆₆ Bi ₁₆ Sn ribbons. <i>Materials Research Express</i> , 2019, 6, 066539.	0.8	1
9	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
10	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
11	Formulation of Al ₆₆ Bi ₁₆ Sn immiscible alloys versus the solidification behaviors and structures. <i>Journal of Materials Science</i> , 2019, 54, 4384-4399.	1.7	7
12	Strengthening effects of Y and Sr on Al ₆₆ Si ₁₆ 0.5Mg alloy. <i>Materials Research Express</i> , 2019, 6, 016538.	0.8	3
13	Effect of Cu Additions and Extrusion Treatment on the Microstructure and Mechanical Properties of Mg ₆₆ Sn ₁₆ Al Alloy. <i>Springer Proceedings in Physics</i> , 2019, , 257-271.	0.1	0
14	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
15	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
16	Investigation on the modification behavior of A356.2 alloy with Yb ₆₆ La composite modifier. <i>Materials Research Express</i> , 2018, 5, 016520.	0.8	6
17	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
18	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

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19	Effect of cooling rates and Zr addition on the microstructure and corrosion behaviors of the Mgâ€“Znâ€“Gd alloys. Materials Research Express, 2018, 5, 016506.	0.8	4
20	Liquid-liquid structure transition and its effect on the solidification behaviors and microstructure of Sn75Bi25 alloy. Journal of Molecular Liquids, 2018, 263, 218-227.	2.3	18
21	High-Efficiency Inhibition of Gravity Segregation in Alâ€“Bi Immiscible Alloys by Adding Lanthanum. Metals and Materials International, 2018, 24, 1262-1274.	1.8	9
22	Effects of Mgâ€“Znâ€“Y quasicrystal addition on the microstructures, mechanical performances and corrosion behaviors of as-cast AM60 magnesium alloy. Materials Research Express, 2018, 5, 106512.	0.8	8
23	Grain refining effects of the melt thermal-rate treatment and Al-Ti-B-Y refiner in as-cast Al-9Si-0.5Mg alloy. Materials Research Express, 2018, 5, 066520.	0.8	11
24	Effects of Te addition on microstructure and mechanical properties of AZ91 magnesium alloy. Materials Research Express, 2017, 4, 016503.	0.8	4
25	Effect of melt superheating treatment on solidification structures of Al 75 Bi 9 Sn 16 immiscible alloy. Journal of Molecular Liquids, 2017, 232, 457-461.	2.3	25
26	Effects of several nano-carbon materials on the microstructure and properties of copper. Materials Research Express, 2017, 4, 025801.	0.8	3
27	Effect of graphene addition on properties of Cu-based composites for electrical contacts. Materials Research Express, 2017, 4, 066506.	0.8	11
28	Investigation on the properties of nano copper matrix composite via vacuum arc melting method. Materials Research Express, 2017, 4, 106512.	0.8	5
29	Microstructure and mechanical properties of Mgâ€“Znâ€“Y alloy containing LPSO phase and I-phase. Materials Research Express, 2017, 4, 086502.	0.8	12
30	Nanoscale strain characterization of Ti3Al precipitate-reinforced Ti alloys. Materials Letters, 2017, 209, 182-184.	1.3	14
31	Effect of solution treatment on mechanical and corrosion resistance properties of Mgâ€“Znâ€“Ndâ€“Ca alloy. Materials Research Express, 2017, 4, 126510.	0.8	4
32	Temperature dependence of resistivity and crystallization behaviors of amorphous melt-spun ribbon of Mg66Zn30Gd4 alloy. Materials Letters, 2017, 189, 17-20.	1.3	16
33	Study on the Anti-Poison Performance of Alâ€“Yâ€“P Master Alloy for Impurity Ca in Aluminum Alloys. Materials, 2017, 10, 1356.	1.3	2
34	Effect of Gd addition on microstructure and corrosion behaviors of Mgâ€“Znâ€“Y alloy. Journal of Magnesium and Alloys, 2016, 4, 319-325.	5.5	47
35	Effect of cooling rates on solidification and microstructure of rapidly solidified Mg ₅₇ Zn ₃₇ Y ₆ quasicrystal alloy. Journal of Materials Research, 2015, 30, 3324-3330.	1.2	6
36	Influence of homogenising temperature on the microstructure of 7085 Al alloy. Materials Research Innovations, 2015, 19, S112-S116.	1.0	2

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37	Effects of WO ₃ Micro/Nano-Inclusions on the Thermoelectric Properties of Co ₄ Sb _{11.7} Te _{0.3} Skutterudite. Journal of Nanoscience and Nanotechnology, 2015, 15, 3076-3080.	0.9	10
38	Protective properties of YSZ/Ti film deposited on CoSb ₃ thermoelectric material. Corrosion Science, 2015, 98, 163-169.	3.0	5
39	Growth mechanism of an icosahedral quasicrystal and solute partitioning in a Mg-rich Mg-Zn-Y alloy. Journal of Materials Research, 2014, 29, 942-949.	1.2	10
40	Temperature dependence of the electrical resistivity of Mg-Zn-Y quasicrystal alloy. Materials Letters, 2014, 132, 334-337.	1.3	5
41	Protective properties of magnetron-sputtered Ti coating on CoSb ₃ thermoelectric material. Applied Surface Science, 2014, 305, 86-92.	3.1	15
42	Effect of Mg-Zn-Nd Quasicrystal Addition on Corrosion Resistance of AZ91 Alloys. Rare Metal Materials and Engineering, 2014, 43, 791-795.	0.8	17
43	Influence of in situ synthesized TiC on thermal stability and corrosion behavior of Zr ₆₀ Cu ₁₀ Al ₁₅ Ni ₁₅ amorphous composites. Physica B: Condensed Matter, 2014, 436, 47-53.	1.3	3
44	Synthesis and thermoelectric properties of tantalum-doped ZrNiSn half-Heusler alloys. Functional Materials Letters, 2014, 07, 1450032.	0.7	24
45	Refinement of primary Si in Cu ₅₀ Si alloys with novel Al-Zr-P master alloy. Rare Metals, 2013, 32, 252-257.	3.6	7
46	Microstructure transformations in the heat-treated Mg-Zn-Y alloy. Journal of Alloys and Compounds, 2013, 577, 498-506.	2.8	43
47	Solidification and microstructure of as-cast Mg ₆₅ Zn ₃₂ Y ₃ quasicrystal alloy. Physica B: Condensed Matter, 2013, 420, 64-69.	1.3	13
48	Effect of P and Sr complex modification on Si phase in hypereutectic Al ₃₀ Si alloys. Materials & Design, 2013, 47, 857-864.	5.1	80
49	Synthesis and thermoelectric properties of GaxCo ₄ Sb _{11.7} Te _{0.3} skutterudites. Intermetallics, 2012, 26, 31-35.	1.8	13
50	Fabrication and reliability evaluation of CoSb ₃ /W-Cu thermoelectric element. Journal of Alloys and Compounds, 2012, 517, 198-203.	2.8	55
51	Glass-forming ability and crystallization of Mg-Ni amorphous alloys with Y addition. Rare Metals, 2012, 31, 244-249.	3.6	5
52	Crystallization Behavior and Mechanical Properties of Mg _{86.33} Ni _{12.67} Y ₁ Amorphous Alloy. Journal of Inorganic and Organometallic Polymers and Materials, 2012, 22, 12-16.	1.9	0
53	Metastable microheterogeneity in liquid monotectic Bi-Ga alloys. International Journal of Cast Metals Research, 2011, 24, 65-69.	0.5	8
54	Effect of special microstructure on the mechanical properties of nanocomposite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 487, 258-263.	2.6	23

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55	Viscous feature of Sb-Bi alloy under magnetic field. <i>Materials Letters</i> , 2008, 62, 73-76.	1.3	16
56	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
57	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
58	Rheology Feature of Simple Metal Melt. <i>Acta Metallurgica Sinica (English Letters)</i> , 2007, 20, 181-186.	1.5	0
59	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
60	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
61	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
62	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
63	Effects of nickel on the crystallization of Zr ₇₀ Cu ₂₀ Ni ₁₀ amorphous alloy. <i>Chinese Physics B</i> , 2002, 11, 592-595.	1.3	2
64	Short-Range and Medium-Range Order in Liquid Cu-Ni Alloy. <i>Chinese Physics Letters</i> , 2002, 19, 233-235.	1.3	11
65	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
66	Crystallization processes in amorphous Zr ₅₄ Cu ₄₆ alloy. <i>Journal of Non-Crystalline Solids</i> , 2002, 311, 36-41.	1.5	20
67	Formation of nanocrystals in metallic Zr-Cu-Ni glass. <i>Journal of Alloys and Compounds</i> , 2002, 347, 101-104.	2.8	10
68	Decomposition of metallic Zr-Cu-Ni glass. <i>Journal of Materials Science Letters</i> , 2002, 21, 1705-1707.	0.5	2
69	Phase boundary sliding model controlled by diffusion solution zone in superplastic deformation. <i>Science Bulletin</i> , 2002, 47, 1228.	1.7	0