

Zhi-Jun Wang

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144
papers

3,460
citations

27
h-index

56
g-index

154
ext. papers

4,622
ext. citations

4.1
avg, IF

5.7
L-index

#	Paper	IF	Citations
144	A promising new class of high-temperature alloys: eutectic high-entropy alloys. <i>Scientific Reports</i> , 2014 , 4, 6200	4.9	604
143	Atomic-size effect and solid solubility of multicomponent alloys. <i>Scripta Materialia</i> , 2015 , 94, 28-31	5.6	226
142	Designing eutectic high entropy alloys of CoCrFeNiNb x. <i>Journal of Alloys and Compounds</i> , 2016 , 656, 284-289	5.7	222
141	Phase separation of metastable CoCrFeNi high entropy alloy at intermediate temperatures. <i>Scripta Materialia</i> , 2017 , 126, 15-19	5.6	165
140	Promising properties and future trend of eutectic high entropy alloys. <i>Scripta Materialia</i> , 2020 , 187, 202-209	5.6	126
139	Phase Selection in High-Entropy Alloys: From Nonequilibrium to Equilibrium. <i>Jom</i> , 2014 , 66, 1966-1972	2.1	109
138	Phase-field study of competitive dendritic growth of converging grains during directional solidification. <i>Acta Materialia</i> , 2012 , 60, 1478-1493	8.4	103
137	Atomic-size and lattice-distortion effects in newly developed high-entropy alloys with multiple principal elements. <i>Intermetallics</i> , 2015 , 64, 63-69	3.5	89
136	Stability of lamellar structures in CoCrFeNiNbx eutectic high entropy alloys at elevated temperatures. <i>Materials and Design</i> , 2016 , 104, 259-264	8.1	88
135	Solid solutioning in equiatomic alloys: Limit set by topological instability. <i>Journal of Alloys and Compounds</i> , 2014 , 583, 410-413	5.7	81
134	Strengthening the CoCrFeNiNb0.25 high entropy alloy by FCC precipitate. <i>Journal of Alloys and Compounds</i> , 2016 , 667, 53-57	5.7	80
133	Design of D022 superlattice with superior strengthening effect in high entropy alloys. <i>Acta Materialia</i> , 2019 , 167, 275-286	8.4	75
132	Effects of temperature and microstructure on the tribological properties of CoCrFeNiNbx eutectic high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2019 , 775, 1376-1385	5.7	74
131	Solid solution island of the Co-Cr-Fe-Ni high entropy alloy system. <i>Scripta Materialia</i> , 2017 , 131, 42-46	5.6	59
130	Alloy design, micromechanical and macromechanical properties of CoCrFeNiTax eutectic high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 2653-2662	5.7	57
129	Uncovering the eutectics design by machine learning in the AlCoCrFeNi high entropy system. <i>Acta Materialia</i> , 2020 , 182, 278-286	8.4	55
128	A casting eutectic high entropy alloy with superior strength-ductility combination. <i>Materials Letters</i> , 2019 , 253, 268-271	3.3	50

127	Effect of Mo Addition on Corrosion Behavior of High-Entropy Alloys CoCrFeNiMox in Aqueous Environments. <i>Acta Metallurgica Sinica (English Letters)</i> , 2019 , 32, 41-51	2.5	43
126	Kinetic Pathways and Mechanisms of Two-Step Nucleation in Crystallization. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 5008-5014	6.4	42
125	Microstructure and mechanical properties of Al _{0.7} CoCrFeNi high-entropy-alloy prepared by directional solidification. <i>Intermetallics</i> , 2018 , 93, 93-100	3.5	42
124	Nanoindentation characterized initial creep behavior of a high-entropy-based alloy CoFeNi. <i>Intermetallics</i> , 2014 , 53, 183-186	3.5	40
123	Phase field modeling the selection mechanism of primary dendritic spacing in directional solidification. <i>Acta Materialia</i> , 2012 , 60, 1957-1964	8.4	39
122	Synergistic effect of Ti and Al on L12-phase design in CoCrFeNi-based high entropy alloys. <i>Intermetallics</i> , 2019 , 110, 106476	3.5	32
121	Effect of initial particle size distribution on the dynamics of transient Ostwald ripening: A phase field study. <i>Acta Materialia</i> , 2015 , 90, 10-26	8.4	32
120	Tuning the defects in face centered cubic high entropy alloy via temperature-dependent stacking fault energy. <i>Scripta Materialia</i> , 2018 , 155, 134-138	5.6	29
119	Solid solubility, precipitates, and stacking fault energy of micro-alloyed CoCrFeNi high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2018 , 769, 490-502	5.7	28
118	Orientation selection process during the early stage of cubic dendrite growth: A phase-field crystal study. <i>Acta Materialia</i> , 2012 , 60, 5501-5507	8.4	28
117	Phase-field-crystal simulation of nonequilibrium crystal growth. <i>Physical Review E</i> , 2014 , 89, 012405	2.4	27
116	Direct laser deposited bulk CoCrFeNiNbx high entropy alloys. <i>Intermetallics</i> , 2019 , 114, 106592	3.5	26
115	Branching-induced grain boundary evolution during directional solidification of columnar dendritic grains. <i>Acta Materialia</i> , 2017 , 136, 148-163	8.4	25
114	Enhancing the mechanical properties of casting eutectic high entropy alloys with Mo addition. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	24
113	The phase stability of Ni ₂ CrFeMox multi-principal-component alloys with medium configurational entropy. <i>Materials and Design</i> , 2015 , 85, 1-6	8.1	24
112	Kinetic ways of tailoring phases in high entropy alloys. <i>Scientific Reports</i> , 2016 , 6, 34628	4.9	24
111	The intrinsic mechanism of corrosion resistance for FCC high entropy alloys. <i>Science China Technological Sciences</i> , 2018 , 61, 189-196	3.5	24
110	Abnormal β - β' phase transformation in the CoCrFeNiNb _{0.25} high entropy alloy. <i>Scripta Materialia</i> , 2018 , 146, 281-285	5.6	23

109	Interfacial undercooling in solidification of colloidal suspensions: analyses with quantitative measurements. <i>Scientific Reports</i> , 2016 , 6, 28434	4.9	23
108	Quantitative determination of the lattice constant in high entropy alloys. <i>Scripta Materialia</i> , 2019 , 162, 468-471	5.6	23
107	Onset of initial planar instability with surface-tension anisotropy during directional solidification. <i>Physical Review E</i> , 2009 , 80, 052603	2.4	20
106	In situ observation the interface undercooling of freezing colloidal suspensions with differential visualization method. <i>Review of Scientific Instruments</i> , 2015 , 86, 084901	1.7	19
105	Design of high entropy alloys based on the experience from commercial superalloys. <i>Philosophical Magazine Letters</i> , 2015 , 95, 1-6	1	19
104	Grouping strategy in eutectic multi-principal-component alloys. <i>Materials Chemistry and Physics</i> , 2019 , 221, 138-143	4.4	19
103	Non-uniplanar competitive growth of columnar dendritic grains during directional solidification in quasi-2D and 3D configurations. <i>Materials and Design</i> , 2018 , 151, 141-153	8.1	19
102	Molecular dynamics investigation of the local structure in iron melts and its role in crystal nucleation during rapid solidification. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 4122-4135	3.6	17
101	Revealing the Selection of β and γ Phases in CoCrFeNiMox High Entropy Alloys by CALPHAD. <i>Journal of Phase Equilibria and Diffusion</i> , 2018 , 39, 446-453	1	17
100	Interfacial free energy adjustable phase field crystal model for homogeneous nucleation. <i>Soft Matter</i> , 2016 , 12, 4666-73	3.6	17
99	Two-way design of alloys for advanced ultra supercritical plants based on machine learning. <i>Computational Materials Science</i> , 2018 , 155, 331-339	3.2	17
98	Tailoring nanoprecipitates for ultra-strong high-entropy alloys via machine learning and prestrain aging. <i>Journal of Materials Science and Technology</i> , 2021 , 69, 156-167	9.1	16
97	Coupling eutectic nucleation mechanism investigated by phase field crystal model. <i>Acta Materialia</i> , 2018 , 145, 175-185	8.4	15
96	Predicting growth direction of tilted dendritic arrays during directional solidification. <i>Journal of Crystal Growth</i> , 2011 , 328, 108-113	1.6	15
95	Quantitative investigation of cellular growth in directional solidification by phase-field simulation. <i>Physical Review E</i> , 2011 , 84, 041604	2.4	15
94	Atomic packing and size effect on the Hume-Rothery rule. <i>Intermetallics</i> , 2019 , 109, 139-144	3.5	14
93	Controls on microstructural features during solidification of colloidal suspensions. <i>Acta Materialia</i> , 2018 , 157, 288-297	8.4	12
92	High Entropy Alloys: From Bulk Metallic Materials to Nanoparticles. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 4986-4990	2.3	12

91	Modified phase-field-crystal model for solid-liquid phase transitions. <i>Physical Review E</i> , 2015 , 92, 013309	2.4	12
90	Phase field investigation on cellular tip splitting during directional solidification. <i>Scripta Materialia</i> , 2009 , 61, 915-918	5.6	12
89	Remelting induced fully-equiaxed microstructures with anomalous eutectics in the additive manufactured Ni ₃₂ Co ₃₀ Cr ₁₀ Fe ₁₀ Al ₁₈ eutectic high-entropy alloy. <i>Scripta Materialia</i> , 2021 , 201, 113952	5.6	12
88	Strain partitioning enables excellent tensile ductility in precipitated heterogeneous high-entropy alloys with gigapascal yield strength. <i>International Journal of Plasticity</i> , 2021 , 144, 103022	7.6	12
87	Fourier synthesis predicting onset of the initial instability during directional solidification. <i>Applied Physics Letters</i> , 2009 , 94, 061920	3.4	11
86	Phase-field investigation of effects of surface-tension anisotropy on deterministic sidebranching in solutal dendritic growth. <i>Physical Review E</i> , 2008 , 78, 042601	2.4	11
85	Mechanical relaxation and fracture of phase field crystals. <i>Physical Review E</i> , 2019 , 99, 013302	2.4	10
84	Phase field crystal modeling of grain rotation with small initial misorientations in nanocrystalline materials. <i>Computational Materials Science</i> , 2014 , 88, 163-169	3.2	10
83	Dynamic particle packing in freezing colloidal suspensions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 531, 93-98	5.1	10
82	Effect of Ta addition on solidification characteristics of CoCrFeNiTa _x eutectic high entropy alloys. <i>Intermetallics</i> , 2020 , 120, 106769	3.5	10
81	The incredible excess entropy in high entropy alloys. <i>Scripta Materialia</i> , 2019 , 168, 19-22	5.6	9
80	Interface instability modes in freezing colloidal suspensions: revealed from onset of planar instability. <i>Scientific Reports</i> , 2016 , 6, 23358	4.9	9
79	Single Ice Crystal Growth with Controlled Orientation during Directional Freezing. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 970-979	3.4	9
78	Strain mapping in nanocrystalline grains simulated by phase field crystal model. <i>Philosophical Magazine</i> , 2015 , 95, 973-984	1.6	8
77	A precipitation-strengthened high-entropy alloy for additive manufacturing. <i>Additive Manufacturing</i> , 2020 , 35, 101410	6.1	8
76	Unique visualization of multiply oriented lattice structures using a continuous wavelet transform. <i>Computer Physics Communications</i> , 2013 , 184, 2489-2493	4.2	7
75	Phase field investigation on the initial planar instability with surface tension anisotropy during directional solidification of binary alloys. <i>Chinese Physics B</i> , 2010 , 19, 017305-5	1.2	7
74	Microstructure and mechanical properties of forging-additive hybrid manufactured Ti ₆ Al ₄ V alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 811, 140984	5.3	7

73	Effects of surfactant on capillary evaporation process with thick films. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 88, 406-410	4.9	6
72	Yielding and jerky plasticity of tilt grain boundaries in high-temperature graphene. <i>Carbon</i> , 2019 , 153, 242-256	10.4	6
71	Phase-field-crystal investigation of the morphology of a steady-state dendrite tip on the atomic scale. <i>Physical Review E</i> , 2017 , 95, 062803	2.4	6
70	Interactions between grain boundary and compositional domain boundary during spinodal decomposition in nanocrystalline alloys. <i>Philosophical Magazine</i> , 2013 , 93, 2122-2132	1.6	6
69	Effects of surface tension anisotropy on interfacial instability in directional solidification. <i>Crystal Research and Technology</i> , 2009 , 44, 43-53	1.3	6
68	Ultra strong and ductile eutectic high entropy alloy fabricated by selective laser melting. <i>Journal of Materials Science and Technology</i> , 2022 , 106, 128-132	9.1	6
67	Anomalous effect of lattice misfit on the coarsening behavior of multicomponent L12 phase. <i>Scripta Materialia</i> , 2020 , 183, 111-116	5.6	6
66	Elastic strain response in the modified phase-field-crystal model. <i>Chinese Physics B</i> , 2017 , 26, 090702	1.2	5
65	Size effects of shear deformation response for nano-single crystals examined by the phase-field-crystal model. <i>Computational Materials Science</i> , 2017 , 127, 121-127	3.2	5
64	A microstructure-informatic strategy for Vickers hardness forecast of austenitic steels from experimental data. <i>Materials and Design</i> , 2021 , 201, 109497	8.1	5
63	Can secondary nucleation exist in ice banding of freezing colloidal suspensions?. <i>Chinese Physics B</i> , 2016 , 25, 128202	1.2	5
62	Elemental partitioning as a route to design precipitation-hardened high entropy alloys. <i>Journal of Materials Science and Technology</i> , 2021 , 72, 52-60	9.1	5
61	Uncoupling Growth Mechanisms of Binary Eutectics during Rapid Solidification. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 8204-8210	3.8	4
60	Tip-splitting instability in directional solidification based on bias field method. <i>Chinese Physics B</i> , 2015 , 24, 078107	1.2	4
59	Interactions between Nanoparticles and Polymers in the Diffusion Boundary Layer during Freezing Colloidal Suspensions. <i>Langmuir</i> , 2019 , 35, 10446-10452	4	4
58	The effect of interfacial energy anisotropy on planar interface instability in a succinonitrile alloy under a small temperature gradient. <i>Chinese Physics B</i> , 2012 , 21, 066801	1.2	4
57	Atomistic Mechanism Underlying Nucleation in AlCu Alloys with Different Compositions and Cooling Rates. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 3480-3494	3.8	4
56	In situ observation of the unstable lens growth in freezing colloidal suspensions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 553, 681-688	5.1	4

55	Superior Slurry Erosion Behavior of a Casting NiCoCrFeNb _{0.45} Eutectic High Entropy Alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020 , 33, 1111-1116	2.5	3
54	Effect of secondary arm orientation on unusual overgrowth at converging grain boundary during directional solidification in 3D. <i>Computational Materials Science</i> , 2020 , 176, 109531	3.2	3
53	Speed-dependent ice bandings in freezing colloidal suspensions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 543, 126-132	5.1	3
52	Existence and forming mechanism of metastable phase in crystallization. <i>Computational Materials Science</i> , 2016 , 122, 167-176	3.2	3
51	GPU-accelerated phase field simulation of directional solidification. <i>Science China Technological Sciences</i> , 2014 , 57, 1191-1197	3.5	3
50	Material microstructures analyzed by using gray level Co-occurrence matrices. <i>Chinese Physics B</i> , 2017 , 26, 098104	1.2	3
49	Precisely detecting atomic position of atomic intensity images. <i>Ultramicroscopy</i> , 2015 , 150, 74-78	3.1	3
48	Discussions on the non-equilibrium effects in the quantitative phase field model of binary alloys. <i>Chinese Physics B</i> , 2010 , 19, 078101	1.2	3
47	Effect of the direct correlation function on phase diagram of the two-mode phase field crystal model. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2013 , 62, 108104	0.6	3
46	Microstructure, Corrosion Behaviour and Microhardness of Non-equiatomic Fe _{1.5} CoNiCrCu _x (0.5 ≤ x ≤ 2.0) High-Entropy Alloys. <i>Transactions of the Indian Institute of Metals</i> , 2020 , 73, 389-397	1.2	3
45	Composition-dependent slip planarity in mechanically-stable face centered cubic complex concentrated alloys and its mechanical effects. <i>Acta Materialia</i> , 2021 , 220, 117314	8.4	3
44	Description of order-disorder transitions based on the phase-field-crystal model. <i>Physical Review E</i> , 2017 , 95, 043307	2.4	2
43	Effects of a disconnection dipole on the shear-coupled grain boundary migration. <i>Computational Materials Science</i> , 2015 , 109, 253-257	3.2	2
42	Orientation-dependent morphological stability of grain boundary groove. <i>Chinese Physics B</i> , 2014 , 23, 124702	1.2	2
41	Atomic scale modeling of vicinal surface growth from melts using the phase-field crystal method. <i>Journal of Crystal Growth</i> , 2013 , 374, 11-17	1.6	2
40	Microstructure evolution and composition redistribution of FeCoNiCrMn high entropy alloy under extreme plastic deformation. <i>Materials Research Letters</i> , 2022 , 10, 124-132	7.4	2
39	The formation mechanism of special globular surface grain during the solidification of laser surface remelted near Titanium alloys. <i>Computational Materials Science</i> , 2021 , 191, 110353	3.2	2
38	Design Fe-based Eutectic Medium-Entropy Alloys Fe ₂ NiCrNbx. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021 , 34, 1103-1108	2.5	2

37	Effect of Re and Ru on the phase stability and coarsening kinetics of L12 phase in a Ni ₂₉ Co ₂₇ Fe ₂₇ Cr ₃ Al ₇ Ti ₇ high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2021 , 866, 158904	5.7	2
36	Quantitative determination of tip undercooling of faceted sea ice with experiments. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	2
35	Eutectic dual-phase microstructure modulated porous high-entropy alloys as high-performance bifunctional electrocatalysts for water splitting. <i>Journal of Materials Chemistry A</i> ,	13	2
34	Phase-field simulation of microstructure evolution in electron beam additive manufacturing. <i>European Physical Journal E</i> , 2020 , 43, 35	1.5	1
33	An atomic scale study of two-dimensional quasicrystal nucleation controlled by multiple length scale interactions. <i>Soft Matter</i> , 2020 , 16, 5718-5726	3.6	1
32	Atomic investigation of steady-state dendrite tips by using phase-field crystal method. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 84, 012070	0.4	1
31	Competitive grain growth in directional solidification investigated by phase field simulation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012 , 33, 012098	0.4	1
30	Global-Oriented Strategy for Searching Ultrastrength Martensitic Stainless Steels. <i>Advanced Theory and Simulations</i> , 2100411	3.5	1
29	Phase-field study on the effect of initial particle aggregation on the transient coarsening behaviors. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2020 , 28, 075007	2	1
28	Crossover from lamellar to intersected ice morphologies within a single ice crystal during unidirectional freezing of an aqueous solution. <i>Journal of Crystal Growth</i> , 2022 , 577, 126398	1.6	1
27	The planar instability during unidirectional freezing of a macromolecular polymer solution: Diffusion-controlled or not?. <i>Physica B: Condensed Matter</i> , 2021 , 610, 412923	2.8	1
26	Distinct Recrystallization Kinetics in Ni ₄₀ Co ₁₀ Ir ₁₀ Be-Based Single-Phase High-Entropy Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 3799-3810 ²⁻³		1
25	Effects of heat transfer in a growing particle layer on microstructural evolution during solidification of colloidal suspensions*. <i>Chinese Physics B</i> , 2021 , 30, 028103	1.2	1
24	Heterogeneous microstructure of the bonding zone and its dependence on preheating in hybrid manufactured Ti-6Al-4V. <i>Materials Research Letters</i> , 2021 , 9, 422-428	7.4	1
23	On Ti6Al4V Microsegregation in Electron Beam Additive Manufacturing with Multiphase-Field Simulation Coupled with Thermodynamic Data. <i>Acta Metallurgica Sinica (English Letters)</i> , 1	2.5	1
22	Thermal regelation of single particles and particle clusters in ice. <i>Soft Matter</i> , 2021 , 17, 1779-1787	3.6	1
21	Tailoring microstructures of CoCrFeNiNb _{0.25} hypoeutectic high-entropy alloy by hot deformation. <i>Rare Metals</i> , 2022 , 41, 2028	5.5	1
20	Novel B2-strengthening Ni ₄₀ Co ₁₀ Al medium-entropy alloys with prominent mechanical performance. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 840, 142856	5.3	1

19	Quasi-two-dimensional equilibrium solid/liquid interface of colloids at low osmotic pressure. <i>Journal of Crystal Growth</i> , 2014 , 385, 106-110	1.6	o
18	Variant selection within one grain in laser solid formed Ti-6Al-4V alloys. <i>Materials Characterization</i> , 2022 , 185, 111744	3.9	o
17	Serrated flow stress and nano-precipitation in (CoCrFeNi) ₉₄ Ti ₂ Al ₄ high entropy alloy. <i>Intermetallics</i> , 2022 , 141, 107429	3.5	o
16	Tilting Behavior of Lamellar Ice Tip during Unidirectional Freezing of Aqueous Solutions. <i>Langmuir</i> , 2021 , 37, 10579-10587	4	o
15	Superheating of grain boundaries within bulk colloidal crystals.. <i>Nature Communications</i> , 2022 , 13, 1599	17.4	o
14	Non-monotonous effect of pre-strain on the precipitates and strengthening mechanisms of high-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2022 , 906, 164338	5.7	o
13	Connections between structural characteristics and crystal nucleation of AlSi glasses near glass transition temperature. <i>Journal of Non-Crystalline Solids</i> , 2022 , 588, 121637	3.9	o
12	Phase selection of BCC/B2 phases for the improvement of tensile behaviors in FeNiCrAl medium entropy alloy. <i>Journal of Alloys and Compounds</i> , 2022 , 165382	5.7	o
11	Understanding sustained coarsening driven by cyclic phase transformation in additively manufactured Ti-6Al-4V. <i>Journal of Alloys and Compounds</i> , 2022 , 914, 165322	5.7	o
10	Atomistic investigation of homogeneous nucleation in undercooled liquid. <i>Philosophical Magazine</i> , 2017 , 97, 2255-2267	1.6	
9	Microstructural refinement and performance improvement of Cu ₃ 6 wt% Zn alloy by Al ₂ O ₃ nanoparticles coupling electromagnetic stirring. <i>Rare Metals</i> , 2016 , 1	5.5	
8	A Simplified Scaling Law of Cell-Dendrite Transition in Directional Solidification. <i>Advances in Condensed Matter Physics</i> , 2019 , 2019, 1-8	1	
7	Reconsidering the Clapeyron equation in the freezing of colloidal suspensions: From macroscale to the microscale. <i>European Physical Journal E</i> , 2017 , 40, 113	1.5	
6	SOLUTE FIELD ACROSS DIFFUSE INTERFACE DURING TRANSIENT PROCESS OF BINARY ALLOYS SOLIDIFICATION IN PHASE FIELD MODE. <i>International Journal of Modern Physics B</i> , 2010 , 24, 2768-2773	1.1	
5	Microstructure and growth morphology of Frank-Kasper phase in rapidly solidified Mg ₃₂ Al ₁₇ Zn ₃₂ ternary alloys. <i>Rare Metals</i> , 2009 , 28, 401-404	5.5	
4	What happens to the initial planar instability when the thermal gradient is increased during directional solidification?. <i>Chinese Physics B</i> , 2011 , 20, 108104	1.2	
3	Phase field investigation on the selection of initial sidebranch spacing in directional solidification. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012 , 27, 012009	0.4	
2	Strengthening Porous PVA with TiO ₂ Structure by an Ice-Templating Method. <i>Chinese Physics Letters</i> , 2018 , 35, 088101	1.8	

- 1 Deformation Behaviors of an Additive-Manufactured Ni₃₂Co₃₀Cr₁₀Fe₁₀Al₁₈ Eutectic High Entropy Alloy at Ambient and Elevated Temperatures. *Acta Metallurgica Sinica (English Letters)*, 1 2.5