

# Jincheng Wang

## 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.

143  
papers

2,445  
citations

25  
h-index

45  
g-index

148  
ext. papers

3,186  
ext. citations

4  
avg, IF

5.39  
L-index

#	Paper	IF	Citations
143	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> , <b>2022</b> , 577, 126398	1.6	1
142	A phase-field study on interaction process of moving grain boundary and spinodal decomposition. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2022</b> , 71, 078101	0.6	
141	Molecular-Level Insights into the Nucleation Mechanism of One-Component Soft Matter Icosahedral Quasicrystal Studied by Phase-Field Crystal Simulations. <i>Crystal Growth and Design</i> , <b>2022</b> , 22, 2637-2643	3.5	0
140	Novel B2-strengthening NiCoCrAl medium-entropy alloys with prominent mechanical performance. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 840, 142856	5.3	1
139	Non-monotonous effect of pre-strain on the precipitates and strengthening mechanisms of high-entropy alloys. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 906, 164338	5.7	0
138	Connections between structural characteristics and crystal nucleation of Al <sub>80</sub> glasses near glass transition temperature. <i>Journal of Non-Crystalline Solids</i> , <b>2022</b> , 588, 121637	3.9	0
137	Phase selection of BCC/B2 phases for the improvement of tensile behaviors in FeNiCrAl medium entropy alloy. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 165382	5.7	0
136	Atomic-scale investigation of coarsening kinetics by the phase-field crystal model. <i>Europhysics Letters</i> , <b>2021</b> , 135, 56002	1.6	1
135	Competitive growth of diverging columnar grains during directional solidification: A three-dimensional phase-field study. <i>Computational Materials Science</i> , <b>2021</b> , 111061	3.2	1
134	A neural-network based framework of developing cross interaction in alloy embedded-atom method potentials: application to Zr-Nb alloy. <i>Journal of Physics Condensed Matter</i> , <b>2021</b> , 33, 084004	1.8	0
133	A microstructure-informatic strategy for Vickers hardness forecast of austenitic steels from experimental data. <i>Materials and Design</i> , <b>2021</b> , 201, 109497	8.1	5
132	The formation mechanism of special globular surface grain during the solidification of laser surface remelted near titanium alloys. <i>Computational Materials Science</i> , <b>2021</b> , 191, 110353	3.2	2
131	The planar instability during unidirectional freezing of a macromolecular polymer solution: Diffusion-controlled or not?. <i>Physica B: Condensed Matter</i> , <b>2021</b> , 610, 412923	2.8	1
130	Design Fe-based Eutectic Medium-Entropy Alloys Fe <sub>2</sub> NiCrNbx. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2021</b> , 34, 1103-1108	2.5	2
129	Distinct Recrystallization Kinetics in NiCoCrBe-Based Single-Phase High-Entropy Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2021</b> , 52, 3799-3810 <sup>2-3</sup>	2.3	1
128	Effect of Re and Ru on the phase stability and coarsening kinetics of L12 phase in a Ni <sub>29</sub> Co <sub>27</sub> Fe <sub>27</sub> Cr <sub>3</sub> Al <sub>7</sub> Ti <sub>7</sub> high entropy alloy. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 866, 158904	5.7	2
127	Quantitative determination of tip undercooling of faceted sea ice with experiments. <i>Journal of Physics Condensed Matter</i> , <b>2021</b> , 33,	1.8	2

126	Elemental partitioning as a route to design precipitation-hardened high entropy alloys. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 72, 52-60	9.1	5
125	Tailoring nanoprecipitates for ultra-strong high-entropy alloys via machine learning and prestrain aging. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 69, 156-167	9.1	16
124	One-dimensional ledges and migration mechanism of incoherent interphase boundaries. <i>Journal of Applied Crystallography</i> , <b>2021</b> , 54, 211-216	3.8	
123	Atomistic Mechanism Underlying Nucleation in AlCu Alloys with Different Compositions and Cooling Rates. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 3480-3494	3.8	4
122	Tilting Behavior of Lamellar Ice Tip during Unidirectional Freezing of Aqueous Solutions. <i>Langmuir</i> , <b>2021</b> , 37, 10579-10587	4	0
121	Phase-field study of spinodal decomposition under effect of grain boundary*. <i>Chinese Physics B</i> , <b>2021</b> , 30, 088101	1.2	2
120	Remelting induced fully-equiaxed microstructures with anomalous eutectics in the additive manufactured Ni <sub>32</sub> Co <sub>30</sub> Cr <sub>10</sub> Fe <sub>10</sub> Al <sub>18</sub> eutectic high-entropy alloy. <i>Scripta Materialia</i> , <b>2021</b> , 201, 113952	5.6	12
119	An atomistic investigation of branching mechanism during lamellar eutectic solidification. <i>Computational Materials Science</i> , <b>2021</b> , 196, 110536	3.2	1
118	Strain partitioning enables excellent tensile ductility in precipitated heterogeneous high-entropy alloys with gigapascal yield strength. <i>International Journal of Plasticity</i> , <b>2021</b> , 144, 103022	7.6	12
117	Single Ice Crystal Growth with Controlled Orientation during Directional Freezing. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 970-979	3.4	9
116	Phase-field simulation of microstructure evolution in electron beam additive manufacturing. <i>European Physical Journal E</i> , <b>2020</b> , 43, 35	1.5	1
115	An atomic scale study of two-dimensional quasicrystal nucleation controlled by multiple length scale interactions. <i>Soft Matter</i> , <b>2020</b> , 16, 5718-5726	3.6	1
114	Effect of secondary arm orientation on unusual overgrowth at converging grain boundary during directional solidification in 3D. <i>Computational Materials Science</i> , <b>2020</b> , 176, 109531	3.2	3
113	A precipitation-strengthened high-entropy alloy for additive manufacturing. <i>Additive Manufacturing</i> , <b>2020</b> , 35, 101410	6.1	8
112	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> , <b>2020</b> , 28, 075007	2	1
111	Anomalous effect of lattice misfit on the coarsening behavior of multicomponent L12 phase. <i>Scripta Materialia</i> , <b>2020</b> , 183, 111-116	5.6	6
110	Uncovering the eutectics design by machine learning in the AlCoCrFeNi high entropy system. <i>Acta Materialia</i> , <b>2020</b> , 182, 278-286	8.4	55
109	Dislocation nucleation from ZrNb bimetal interfaces cooperating with the dynamic evolution of interfacial dislocations. <i>International Journal of Plasticity</i> , <b>2020</b> , 135, 102830	7.6	5

108	Mechanical relaxation and fracture of phase field crystals. <i>Physical Review E</i> , <b>2019</b> , 99, 013302	2.4	10
107	Direct laser deposited bulk CoCrFeNiNb <sub>x</sub> high entropy alloys. <i>Intermetallics</i> , <b>2019</b> , 114, 106592	3.5	26
106	Migration mechanisms of interphase boundaries with irrational orientation relationships in massive transformations: A phase-field crystal study. <i>Computational Materials Science</i> , <b>2019</b> , 159, 420-427	3.2	2
105	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> , <b>2019</b> , 21, 4122-4135	3.6	17
104	Design of D022 superlattice with superior strengthening effect in high entropy alloys. <i>Acta Materialia</i> , <b>2019</b> , 167, 275-286	8.4	75
103	A casting eutectic high entropy alloy with superior strength-ductility combination. <i>Materials Letters</i> , <b>2019</b> , 253, 268-271	3.3	50
102	The incredible excess entropy in high entropy alloys. <i>Scripta Materialia</i> , <b>2019</b> , 168, 19-22	5.6	9
101	Synergistic effect of Ti and Al on L12-phase design in CoCrFeNi-based high entropy alloys. <i>Intermetallics</i> , <b>2019</b> , 110, 106476	3.5	32
100	Atomic packing and size effect on the Hume-Rothery rule. <i>Intermetallics</i> , <b>2019</b> , 109, 139-144	3.5	14
99	Interactions between Nanoparticles and Polymers in the Diffusion Boundary Layer during Freezing Colloidal Suspensions. <i>Langmuir</i> , <b>2019</b> , 35, 10446-10452	4	4
98	Yielding and jerky plasticity of tilt grain boundaries in high-temperature graphene. <i>Carbon</i> , <b>2019</b> , 153, 242-256	10.4	6
97	Atomic structures and migration mechanisms of interphase boundaries during body- to face-centered cubic phase transformations. <i>Journal of Applied Crystallography</i> , <b>2019</b> , 52, 1176-1188	3.8	2
96	Grouping strategy in eutectic multi-principal-component alloys. <i>Materials Chemistry and Physics</i> , <b>2019</b> , 221, 138-143	4.4	19
95	Quantitative determination of the lattice constant in high entropy alloys. <i>Scripta Materialia</i> , <b>2019</b> , 162, 468-471	5.6	23
94	Implementing continuous freeze-casting by separated control of thermal gradient and solidification rate. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 133, 986-993	4.9	5
93	Speed-dependent ice bandings in freezing colloidal suspensions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 543, 126-132	5.1	3
92	Coupling eutectic nucleation mechanism investigated by phase field crystal model. <i>Acta Materialia</i> , <b>2018</b> , 145, 175-185	8.4	15
91	Abnormal $\beta$ - $\beta'$ phase transformation in the CoCrFeNiNb <sub>0.25</sub> high entropy alloy. <i>Scripta Materialia</i> , <b>2018</b> , 146, 281-285	5.6	23

90	Revealing the Selection of $\beta$ and $\delta$ Phases in CoCrFeNiMox High Entropy Alloys by CALPHAD. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2018</b> , 39, 446-453	1	17
89	Solid solubility, precipitates, and stacking fault energy of micro-alloyed CoCrFeNi high entropy alloys. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 769, 490-502	5.7	28
88	Controls on microstructural features during solidification of colloidal suspensions. <i>Acta Materialia</i> , <b>2018</b> , 157, 288-297	8.4	12
87	High Entropy Alloys: From Bulk Metallic Materials to Nanoparticles. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2018</b> , 49, 4986-4990	2.3	12
86	The intrinsic mechanism of corrosion resistance for FCC high entropy alloys. <i>Science China Technological Sciences</i> , <b>2018</b> , 61, 189-196	3.5	24
85	On the roughening transition of solid/liquid interface in multicomponent alloys. <i>Journal of Crystal Growth</i> , <b>2018</b> , 502, 30-34	1.6	1
84	Strengthening Porous PVA with TiO <sub>2</sub> Structure by an Ice-Templating Method. <i>Chinese Physics Letters</i> , <b>2018</b> , 35, 088101	1.8	
83	Two-way design of alloys for advanced ultra supercritical plants based on machine learning. <i>Computational Materials Science</i> , <b>2018</b> , 155, 331-339	3.2	17
82	Non-uniplanar competitive growth of columnar dendritic grains during directional solidification in quasi-2D and 3D configurations. <i>Materials and Design</i> , <b>2018</b> , 151, 141-153	8.1	19
81	In situ observation of the unstable lens growth in freezing colloidal suspensions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 553, 681-688	5.1	4
80	Tuning the defects in face centered cubic high entropy alloy via temperature-dependent stacking fault energy. <i>Scripta Materialia</i> , <b>2018</b> , 155, 134-138	5.6	29
79	Solid solution island of the Co-Cr-Fe-Ni high entropy alloy system. <i>Scripta Materialia</i> , <b>2017</b> , 131, 42-46	5.6	59
78	Atomistic investigation of homogeneous nucleation in undercooled liquid. <i>Philosophical Magazine</i> , <b>2017</b> , 97, 2255-2267	1.6	
77	Uncoupling Growth Mechanisms of Binary Eutectics during Rapid Solidification. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 8204-8210	3.8	4
76	Elastic strain response in the modified phase-field-crystal model. <i>Chinese Physics B</i> , <b>2017</b> , 26, 090702	1.2	5
75	Description of order-disorder transitions based on the phase-field-crystal model. <i>Physical Review E</i> , <b>2017</b> , 95, 043307	2.4	2
74	Dynamic particle packing in freezing colloidal suspensions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2017</b> , 531, 93-98	5.1	10
73	Branching-induced grain boundary evolution during directional solidification of columnar dendritic grains. <i>Acta Materialia</i> , <b>2017</b> , 136, 148-163	8.4	25

72	Phase-field-crystal investigation of the morphology of a steady-state dendrite tip on the atomic scale. <i>Physical Review E</i> , <b>2017</b> , 95, 062803	2.4	6
71	Size effects of shear deformation response for nano-single crystals examined by the phase-field-crystal model. <i>Computational Materials Science</i> , <b>2017</b> , 127, 121-127	3.2	5
70	Phase separation of metastable CoCrFeNi high entropy alloy at intermediate temperatures. <i>Scripta Materialia</i> , <b>2017</b> , 126, 15-19	5.6	165
69	Designing eutectic high entropy alloys of CoCrFeNiNb x. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 656, 284-289	5.7	222
68	Kinetic Pathways and Mechanisms of Two-Step Nucleation in Crystallization. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 5008-5014	6.4	42
67	Existence and forming mechanism of metastable phase in crystallization. <i>Computational Materials Science</i> , <b>2016</b> , 122, 167-176	3.2	3
66	Strengthening the CoCrFeNiNb0.25 high entropy alloy by FCC precipitate. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 667, 53-57	5.7	80
65	Interface instability modes in freezing colloidal suspensions: revealed from onset of planar instability. <i>Scientific Reports</i> , <b>2016</b> , 6, 23358	4.9	9
64	Interfacial undercooling in solidification of colloidal suspensions: analyses with quantitative measurements. <i>Scientific Reports</i> , <b>2016</b> , 6, 28434	4.9	23
63	Kinetic ways of tailoring phases in high entropy alloys. <i>Scientific Reports</i> , <b>2016</b> , 6, 34628	4.9	24
62	Interfacial free energy adjustable phase field crystal model for homogeneous nucleation. <i>Soft Matter</i> , <b>2016</b> , 12, 4666-73	3.6	17
61	Stability of lamellar structures in CoCrFeNiNb <sub>x</sub> eutectic high entropy alloys at elevated temperatures. <i>Materials and Design</i> , <b>2016</b> , 104, 259-264	8.1	88
60	Effects of surfactant on capillary evaporation process with thick films. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 88, 406-410	4.9	6
59	The phase stability of Ni <sub>2</sub> CrFeMox multi-principal-component alloys with medium configurational entropy. <i>Materials and Design</i> , <b>2015</b> , 85, 1-6	8.1	24
58	Strain mapping in nanocrystalline grains simulated by phase field crystal model. <i>Philosophical Magazine</i> , <b>2015</b> , 95, 973-984	1.6	8
57	Effect of initial particle size distribution on the dynamics of transient Ostwald ripening: A phase field study. <i>Acta Materialia</i> , <b>2015</b> , 90, 10-26	8.4	32
56	In situ observation the interface undercooling of freezing colloidal suspensions with differential visualization method. <i>Review of Scientific Instruments</i> , <b>2015</b> , 86, 084901	1.7	19
55	Atomic-size effect and solid solubility of multicomponent alloys. <i>Scripta Materialia</i> , <b>2015</b> , 94, 28-31	5.6	226

54	Two-dimensional liquid crystalline growth within a phase-field-crystal model. <i>Physical Review E</i> , <b>2015</b> , 92, 012504	2.4	1
53	Modified phase-field-crystal model for solid-liquid phase transitions. <i>Physical Review E</i> , <b>2015</b> , 92, 013309	2.4	12
52	Effects of a disconnection dipole on the shear-coupled grain boundary migration. <i>Computational Materials Science</i> , <b>2015</b> , 109, 253-257	3.2	2
51	Design of high entropy alloys based on the experience from commercial superalloys. <i>Philosophical Magazine Letters</i> , <b>2015</b> , 95, 1-6	1	19
50	Atomic investigation of steady-state dendrite tips by using phase-field crystal method. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2015</b> , 84, 012070	0.4	1
49	Precisely detecting atomic position of atomic intensity images. <i>Ultramicroscopy</i> , <b>2015</b> , 150, 74-78	3.1	3
48	Phase-field-crystal simulation of nonequilibrium crystal growth. <i>Physical Review E</i> , <b>2014</b> , 89, 012405	2.4	27
47	GPU-accelerated phase field simulation of directional solidification. <i>Science China Technological Sciences</i> , <b>2014</b> , 57, 1191-1197	3.5	3
46	Phase field crystal modeling of grain rotation with small initial misorientations in nanocrystalline materials. <i>Computational Materials Science</i> , <b>2014</b> , 88, 163-169	3.2	10
45	Nanoindentation characterized initial creep behavior of a high-entropy-based alloy CoFeNi. <i>Intermetallics</i> , <b>2014</b> , 53, 183-186	3.5	40
44	Microstructure Evolution of Mg&dash;4.3Zn&dash;0.7Y&dash;0.6Zr Alloy during Solution Heat Treatment. <i>Materials Transactions</i> , <b>2014</b> , 55, 264-269	1.3	3
43	Effect of pickling processes on the microstructure and properties of electroless NiP coating on Mg <sub>0.5</sub> Li <sub>0.2</sub> Zn <sub>0.1</sub> Y alloy. <i>Progress in Natural Science: Materials International</i> , <b>2014</b> , 24, 655-662	3.6	10
42	Quasi-two-dimensional equilibrium solid/liquid interface of colloids at low osmotic pressure. <i>Journal of Crystal Growth</i> , <b>2014</b> , 385, 106-110	1.6	0
41	Atomic scale modeling of vicinal surface growth from melts using the phase-field crystal method. <i>Journal of Crystal Growth</i> , <b>2013</b> , 374, 11-17	1.6	2
40	Interactions between grain boundary and compositional domain boundary during spinodal decomposition in nanocrystalline alloys. <i>Philosophical Magazine</i> , <b>2013</b> , 93, 2122-2132	1.6	6
39	Unique visualization of multiply oriented lattice structures using a continuous wavelet transform. <i>Computer Physics Communications</i> , <b>2013</b> , 184, 2489-2493	4.2	7
38	Orientation selection process during the early stage of cubic dendrite growth: A phase-field crystal study. <i>Acta Materialia</i> , <b>2012</b> , 60, 5501-5507	8.4	28
37	Thermodynamic modelling and Gulliver-Scheil simulation of multi-component Al alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2012</b> , 27, 012082	0.4	1

36	Phase-field study of competitive dendritic growth of converging grains during directional solidification. <i>Acta Materialia</i> , <b>2012</b> , 60, 1478-1493	8.4	103
35	Phase field modeling the selection mechanism of primary dendritic spacing in directional solidification. <i>Acta Materialia</i> , <b>2012</b> , 60, 1957-1964	8.4	39
34	Phase field investigation on the selection of initial sidebranch spacing in directional solidification. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2012</b> , 27, 012009	0.4	
33	Competitive grain growth in directional solidification investigated by phase field simulation. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2012</b> , 33, 012098	0.4	1
32	Three-dimensional phase-field crystal modeling of fcc and bcc dendritic crystal growth. <i>Journal of Crystal Growth</i> , <b>2011</b> , 334, 146-152	1.6	30
31	Phase field modeling the growth of Ni <sub>3</sub> Al layer in the $\gamma/\beta$ diffusion couple of Ni <sub>3</sub> Al binary system. <i>Intermetallics</i> , <b>2011</b> , 19, 229-233	3.5	8
30	Predicting growth direction of tilted dendritic arrays during directional solidification. <i>Journal of Crystal Growth</i> , <b>2011</b> , 328, 108-113	1.6	15
29	Quantitative investigation of cellular growth in directional solidification by phase-field simulation. <i>Physical Review E</i> , <b>2011</b> , 84, 041604	2.4	15
28	SOLUTE FIELD ACROSS DIFFUSE INTERFACE DURING TRANSIENT PROCESS OF BINARY ALLOYS SOLIDIFICATION IN PHASE FIELD MODE. <i>International Journal of Modern Physics B</i> , <b>2010</b> , 24, 2768-2773	1.1	
27	Phase field simulation of grain growth with grain boundary segregation. <i>International Journal of Materials Research</i> , <b>2010</b> , 101, 555-559	0.5	4
26	Three-dimensional Phase Field Modeling of the Faceted Cellular Growth. <i>ISIJ International</i> , <b>2010</b> , 50, 1901-1907	1.7	5
25	Interfacial reaction between Al <sub>72</sub> Ni <sub>12</sub> Co <sub>16</sub> decagonal quasicrystalline particles and liquid aluminium. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 1438-1442	4.3	2
24	Onset of initial planar instability with surface-tension anisotropy during directional solidification. <i>Physical Review E</i> , <b>2009</b> , 80, 052603	2.4	20
23	Fourier synthesis predicting onset of the initial instability during directional solidification. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 061920	3.4	11
22	On the stagnation of grain growth in nanocrystalline materials. <i>Scripta Materialia</i> , <b>2009</b> , 60, 945-948	5.6	33
21	Phase field investigation on cellular tip splitting during directional solidification. <i>Scripta Materialia</i> , <b>2009</b> , 61, 915-918	5.6	12
20	A study of the effect of Y on the mechanical properties, damping properties of high damping Mg <sub>0.6</sub> Zr based alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2009</b> , 517, 114-117	5.3	46
19	Microstructure and mechanical properties of an Al <sub>80</sub> Ni <sub>10</sub> Co intermetallics reinforced Al matrix composite. <i>Journal of Materials Science</i> , <b>2009</b> , 44, 3420-3427	4.3	8

18	Phase field modeling for dendritic morphology transition and micro-segregation in multi-component alloys. <i>Science in China Series D: Earth Sciences</i> , <b>2009</b> , 52, 344-351		1
17	Three-Dimensional Multiphase Field Modeling of the Effect of Lamellar Thickness on the Eutectic Growth. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2009</b> , 40, 1670-1674	2.3	1
16	Investigation into microsegregation during solidification of a binary alloy by phase-field simulations. <i>Journal of Crystal Growth</i> , <b>2009</b> , 311, 1217-1222	1.6	7
15	Three-dimensional multi-phase field simulation of the lamellar growth stability in a directionally solidified hypereutectic CBr4Ti2Cl6 alloy. <i>Journal of Crystal Growth</i> , <b>2009</b> , 311, 2496-2500	1.6	3
14	Precipitation and responding damping behavior of heat-treated AZ31 magnesium alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2009</b> , 22, 1-6	2.5	19
13	Phase-field simulation with the CALPHAD method for the microstructure evolution of multi-component Ni-base superalloys. <i>Intermetallics</i> , <b>2008</b> , 16, 239-245	3.5	17
12	Phase-field simulation of the effect of interactions between ordered domains on transformation kinetics in precipitation. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2008</b> , 16, 025004	2	1
11	Phase-field investigation of effects of surface-tension anisotropy on deterministic sidebranching in solutal dendritic growth. <i>Physical Review E</i> , <b>2008</b> , 78, 042601	2.4	11
10	Phase-Field Simulation of the Elastic Effect on the Transformation Kinetics in Precipitation. <i>Materials Transactions</i> , <b>2008</b> , 49, 133-138	1.3	1
9	Phase field simulation of the interface morphology evolution and its stability during directional solidification of binary alloys. <i>Science in China Series D: Earth Sciences</i> , <b>2008</b> , 51, 362-370		3
8	Phase-field modeling of isothermal dendritic coarsening in ternary alloys. <i>Acta Materialia</i> , <b>2008</b> , 56, 4585-4592	1.5	15
7	Damping properties of MgTi binary alloys. <i>Physica B: Condensed Matter</i> , <b>2008</b> , 403, 2438-2442	2.8	37
6	Phase-field simulation of microstructure development involving nucleation and crystallographic orientations in alloy solidification. <i>Journal of Crystal Growth</i> , <b>2007</b> , 309, 65-69	1.6	31
5	Phase-Field Simulation of Ni-Al-Cr System with Chemical Free Energy Using CALPHAD Method. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>2006</b> , 70, 682-685	0.4	3
4	Global-Oriented Strategy for Searching Ultrastrength Martensitic Stainless Steels. <i>Advanced Theory and Simulations</i> , 2100411	3.5	1
3	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
2	Deformation Behaviors of an Additive-Manufactured Ni32Co30Cr10Fe10Al18 Eutectic High Entropy Alloy at Ambient and Elevated Temperatures. <i>Acta Metallurgica Sinica (English Letters)</i> , 1	2.5	
1	Eutectic dual-phase microstructure modulated porous high-entropy alloys as high-performance bifunctional electrocatalysts for water splitting. <i>Journal of Materials Chemistry A</i> ,	1.3	2

