

# Laszlo Granasy

## List of Publications by Citations

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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.

145 papers	4,974 citations	40 h-index	64 g-index
150 ext. papers	5,399 ext. citations	5.3 avg, IF	5.49 L-index

#	Paper	IF	Citations
145	Growth and form of spherulites. <i>Physical Review E</i> , <b>2005</b> , 72, 011605	2.4	331
144	A general mechanism of polycrystalline growth. <i>Nature Materials</i> , <b>2004</b> , 3, 645-50	27	284
143	Phase-field-crystal models for condensed matter dynamics on atomic length and diffusive time scales: an overview. <i>Advances in Physics</i> , <b>2012</b> , 61, 665-743	18.4	248
142	Nucleation and bulk crystallization in binary phase field theory. <i>Physical Review Letters</i> , <b>2002</b> , 88, 206105	7.4	152
141	Multiphase solidification in multicomponent alloys. <i>Materials Science and Engineering Reports</i> , <b>2004</b> , 46, 1-49	30.9	134
140	Phase field theory of heterogeneous crystal nucleation. <i>Physical Review Letters</i> , <b>2007</b> , 98, 035703	7.4	120
139	Growth of 'dizzy dendrites' in a random field of foreign particles. <i>Nature Materials</i> , <b>2003</b> , 2, 92-6	27	116
138	Single C-C bond in (C60) <sub>22</sub> -. <i>Physical Review B</i> , <b>1996</b> , 54, 11849-11852	3.3	107
137	Dimerization in KC60 and RbC60. <i>Physical Review B</i> , <b>1995</b> , 51, 12228-12232	3.3	100
136	Modelling polycrystalline solidification using phase field theory. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, R1205-R1235	1.8	97
135	Diffuse interface theory of nucleation. <i>Journal of Non-Crystalline Solids</i> , <b>1993</b> , 162, 301-303	3.9	89
134	Diffusion-controlled anisotropic growth of stable and metastable crystal polymorphs in the phase-field crystal model. <i>Physical Review Letters</i> , <b>2009</b> , 103, 035702	7.4	85
133	Advanced operator splitting-based semi-implicit spectral method to solve the binary phase-field crystal equations with variable coefficients. <i>Journal of Computational Physics</i> , <b>2009</b> , 228, 1612-1623	4.1	83
132	Amorphous nucleation precursor in highly nonequilibrium fluids. <i>Physical Review Letters</i> , <b>2011</b> , 107, 175702	7.4	70
131	Phase field approach to heterogeneous crystal nucleation in alloys. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	70
130	Polymorphism, crystal nucleation and growth in the phase-field crystal model in 2D and 3D. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 364101	1.8	68
129	Comparison of experiments and modern theories of crystal nucleation. <i>Journal of Chemical Physics</i> , <b>1997</b> , 107, 3634-3644	3.9	66

128	Heterogeneous crystal nucleation: the effect of lattice mismatch. <i>Physical Review Letters</i> , <b>2012</b> , 108, 025502	7.4	65
127	Phase field theory of crystal nucleation and polycrystalline growth: A review. <i>Journal of Materials Research</i> , <b>2006</b> , 21, 309-319	2.5	64
126	Diffuse interface theory for homogeneous vapor condensation. <i>Journal of Chemical Physics</i> , <b>1996</b> , 104, 5188-5198	3.9	64
125	Interfacial properties deduced from nucleation experiments: A Cahn-Hilliard analysis. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 6157-6168	3.9	61
124	Kinetics of solid hydrate formation by carbon dioxide: Phase field theory of hydrate nucleation and magnetic resonance imaging. <i>Physical Chemistry Chemical Physics</i> , <b>2004</b> , 6, 2327-2334	3.6	60
123	Structure and stability of crystalline C60 $\alpha$ -n-pentane clathrate. <i>Solid State Communications</i> , <b>1992</b> , 83, 423-426	1.6	57
122	Phase-Field Modeling of Polycrystalline Solidification: From Needle Crystals to Spherulites: A Review. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2014</b> , 45, 1694-1719	2.3	56
121	Faceting and branching in 2D crystal growth. <i>Physical Review Letters</i> , <b>2011</b> , 106, 195502	7.4	56
120	Phase field theory of polycrystalline solidification in three dimensions. <i>Europhysics Letters</i> , <b>2005</b> , 71, 131-137	1.6	56
119	Multiscale approach to CO <sub>2</sub> hydrate formation in aqueous solution: phase field theory and molecular dynamics. Nucleation and growth. <i>Journal of Chemical Physics</i> , <b>2006</b> , 124, 234710	3.9	54
118	The evaluation of kinetic parameters from non-isothermal experiments: Application to crystallization kinetics. <i>Journal of Non-Crystalline Solids</i> , <b>1984</b> , 68, 193-202	3.9	54
117	Tuning the structure of non-equilibrium soft materials by varying the thermodynamic driving force for crystal ordering. <i>Soft Matter</i> , <b>2011</b> , 7, 1789-1799	3.6	51
116	Phase field simulation of liquid phase separation with fluid flow. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2005</b> , 413-414, 418-422	5.3	51
115	Solid-liquid interfacial free energy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1991</b> , 133, 577-580	5.3	51
114	Phase-field crystal modelling of crystal nucleation, heteroepitaxy and patterning. <i>Philosophical Magazine</i> , <b>2011</b> , 91, 123-149	1.6	50
113	Nucleation and growth in cluster dynamics: A quantitative test of the classical kinetic approach. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 9810-9821	3.9	47
112	Semiempirical van der Waals/Cahn-Hilliard theory: Size dependence of the Tolman length. <i>Journal of Chemical Physics</i> , <b>1998</b> , 109, 9660-9663	3.9	45
111	Diffuse Interface Approach to Vapour Condensation. <i>Europhysics Letters</i> , <b>1993</b> , 24, 121-126	1.6	44

110	Homogeneous nucleation within the liquid miscibility gap of Zn-Pb alloys. <i>Scripta Metallurgica Et Materialia</i> , <b>1993</b> , 28, 1329-1334		43
109	Shear enhanced heterogeneous nucleation in some Mg- and Al-alloys. <i>International Journal of Cast Metals Research</i> , <b>2009</b> , 22, 318-322	1	41
108	Nucleation and the Solid-Liquid Interfacial Free Energy. <i>MRS Bulletin</i> , <b>2004</b> , 29, 945-950	3.2	41
107	Phase-field approach to polycrystalline solidification including heterogeneous and homogeneous nucleation. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 404205	1.8	40
106	Monte Carlo simulation of first-order phase transformations with mutual blocking of anisotropically growing particles up to all relevant orders. <i>Physical Review B</i> , <b>1998</b> , 57, 14110-14118	3.3	40
105	Phase-field modeling of crystal nucleation in undercooled liquids [A review. <i>Progress in Materials Science</i> , <b>2019</b> , 106, 100569	42.2	39
104	Consistent multiphase-field theory for interface driven multidomain dynamics. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	39
103	The phase-field theory applied to CO <sub>2</sub> and CH <sub>4</sub> hydrate. <i>Journal of Crystal Growth</i> , <b>2006</b> , 287, 486-490	1.6	39
102	Diffuse interface analysis of crystal nucleation in hard-sphere liquid. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 10121-10124	3.9	39
101	Dendrites Regularized by Spatially Homogeneous Time-Periodic Forcing. <i>Physical Review Letters</i> , <b>1999</b> , 83, 2853-2856	7.4	38
100	Crystal nucleation and growth in binary phase-field theory. <i>Journal of Crystal Growth</i> , <b>2002</b> , 237-239, 1813-1817	1.6	37
99	Cahn-Hilliard theory with triple-parabolic free energy. II. Nucleation and growth in the presence of a metastable crystalline phase. <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 2410-2419	3.9	36
98	Heterogeneous nucleation of/on nanoparticles: a density functional study using the phase-field crystal model. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 2159-73	58.5	34
97	Phase field theory of crystal nucleation in hard sphere liquid. <i>Journal of Chemical Physics</i> , <b>2003</b> , 119, 10376-10382	3.9	34
96	Cluster spin-glass model for amorphous Fe-Zr alloys near the critical concentration: a magnetization study. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1994</b> , 135, 161-170	2.8	34
95	Bulk structure of phototransformed C. <i>Solid State Communications</i> , <b>1999</b> , 111, 595-599	1.6	32
94	Fundamentals of the Diffuse Interface Theory of Nucleation. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 10768-10770		30
93	Diffuse interface model of crystal nucleation. <i>Journal of Non-Crystalline Solids</i> , <b>1997</b> , 219, 49-56	3.9	29

92	Kinetics of wollastonite nucleation in CaO/SiO <sub>2</sub> glass. <i>Journal of Chemical Physics</i> , <b>1998</b> , 108, 7317-7326	3.9	29
91	Polymer-monomer phase transition in Na <sub>4</sub> C <sub>60</sub> . <i>Physical Review B</i> , <b>1998</b> , 58, 5-7	3.3	28
90	Phase field modeling of CH <sub>4</sub> hydrate conversion into CO <sub>2</sub> hydrate in the presence of liquid CO <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2007</b> , 9, 3104-11	3.6	27
89	Diffuse Interface Analysis of Ice Nucleation in Undercooled Water. <i>The Journal of Physical Chemistry</i> , <b>1995</b> , 99, 14182-14187		27
88	Phase-field models for eutectic solidification. <i>Jom</i> , <b>2004</b> , 56, 34-39	2.1	26
87	Crystal growth and classical nucleation theory. <i>Comptes Rendus Chimie</i> , <b>2002</b> , 5, 765-771	2.7	26
86	Cahn-Hilliard theory with triple-parabolic free energy. I. Nucleation and growth of a stable crystalline phase. <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 2399-2409	3.9	26
85	Ginzburg-Landau-type multiphase field model for competing fcc and bcc nucleation. <i>Physical Review Letters</i> , <b>2011</b> , 106, 045701	7.4	25
84	Regular dendritic patterns induced by nonlocal time-periodic forcing. <i>Physical Review E</i> , <b>2000</b> , 62, 7817-7824	2.4	25
83	Crystal growth kinetics as an architectural constraint on the evolution of molluscan shells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 20388-20397	11.5	24
82	Ternary eutectic dendrites: Pattern formation and scaling properties. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 154501	3.9	24
81	Nucleation theory for diffuse interfaces. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1994</b> , 178, 121-124	5.3	24
80	Non-classical theory of crystal nucleation: application to oxide glasses: review. <i>Journal of Non-Crystalline Solids</i> , <b>1999</b> , 253, 210-230	3.9	23
79	Distribution of K ions in intermediate KC <sub>60</sub> . <i>Physical Review B</i> , <b>1995</b> , 52, 3199-3205	3.3	22
78	Thermodynamics of polymorphism in the AC <sub>60</sub> (A=K, Rb, Cs) alkali fullerenes. <i>Physical Review B</i> , <b>1996</b> , 53, 5059-5062	3.3	22
77	Nucleation controlled transformation in ball milled FeB. <i>Scripta Materialia</i> , <b>1993</b> , 2, 11-18		22
76	Biomineralization as a Paradigm of Directional Solidification: A Physical Model for Molluscan Shell Ultrastructural Morphogenesis. <i>Advanced Materials</i> , <b>2018</b> , 30, e1803855	24	22
75	Polycrystalline patterns in far-from-equilibrium freezing: a phase field study. <i>Philosophical Magazine</i> , <b>2006</b> , 86, 3757-3778	1.6	21

74	Phase Transitions in the A <sub>1</sub> C <sub>60</sub> (A = K, Rb, Cs) Salts. <i>Europhysics Letters</i> , <b>1995</b> , 32, 721-727	1.6	20
73	Magnetic cluster relaxation in amorphous Fe-Zr alloys. <i>Physical Review B</i> , <b>1992</b> , 46, 6600-6602	3.3	20
72	Spiraling eutectic dendrites. <i>Physical Review E</i> , <b>2013</b> , 87,	2.4	19
71	Nucleation in oxide glasses: comparison of theory and experiment. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>1998</b> , 454, 1745-1766	2.4	19
70	Cahn-Hilliard-type density functional calculations for homogeneous ice nucleation in undercooled water. <i>Journal of Molecular Structure</i> , <b>1999</b> , 485-486, 523-536	3.4	19
69	Enthalpies of phase transformations in the alkali fulleride RbC <sub>60</sub> . <i>Solid State Communications</i> , <b>1996</b> , 97, 573-578	1.6	18
68	Crystallization and local order of bulk As <sub>x</sub> Te <sub>1-x</sub> glasses. <i>Journal of Non-Crystalline Solids</i> , <b>1983</b> , 57, 411-421	3.9	18
67	Investigation of magnetic properties and thermal stability of Fe-TM-B metallic glasses. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1982</b> , 26, 109-111	2.8	18
66	Phase-field modeling of eutectic structures on the nanoscale: the effect of anisotropy. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 5544-5558	4.3	17
65	Phase field theory of interfaces and crystal nucleation in a eutectic system of fcc structure: II. Nucleation in the metastable liquid immiscibility region. <i>Journal of Chemical Physics</i> , <b>2007</b> , 127, 074710	3.9	16
64	Phase field modeling of polycrystalline freezing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2005</b> , 413-414, 412-417	5.3	16
63	Analysis of the Ribbon Formation Process on the Single Roller Rapid Solidification Technique. <i>Transactions of the Japan Institute of Metals</i> , <b>1986</b> , 27, 51-60		16
62	Crystallization of glassy Fe <sub>84</sub> B <sub>16-x</sub> C <sub>x</sub> (x=0 to 10) alloys. <i>Physical Review B</i> , <b>1982</b> , 25, 127-135	3.3	16
61	Phase-field lattice Boltzmann model for dendrites growing and moving in melt flow. <i>Npj Computational Materials</i> , <b>2019</b> , 5,	10.9	16
60	Free energy of the bcc-liquid interface and the Wulff shape as predicted by the phase-field crystal model. <i>Journal of Crystal Growth</i> , <b>2014</b> , 385, 148-153	1.6	15
59	Phase-field crystal modeling of heteroepitaxy and exotic modes of crystal nucleation. <i>Journal of Crystal Growth</i> , <b>2017</b> , 457, 24-31	1.6	15
58	Transient nucleation in oxide glasses: The effect of interface dynamics and subcritical cluster population. <i>Journal of Chemical Physics</i> , <b>1999</b> , 111, 737-749	3.9	15
57	Diffuse interface model of nucleation. <i>Journal of Crystal Growth</i> , <b>1996</b> , 167, 756-765	1.6	15

56	Diffuse interface model of bulk heterogeneous nucleation. <i>Scripta Metallurgica Et Materialia</i> , <b>1994</b> , 31, 601-606		15
55	Orientation-field models for polycrystalline solidification: Grain coarsening and complex growth forms. <i>Journal of Crystal Growth</i> , <b>2017</b> , 457, 32-37	1.6	14
54	Recent Developments in Modeling Heteroepitaxy/Heterogeneous Nucleation by Dynamical Density Functional Theory. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2015</b> , 46, 4908-4920	2.3	14
53	Grain coarsening in two-dimensional phase-field models with an orientation field. <i>Physical Review E</i> , <b>2017</b> , 95, 053303	2.4	14
52	The non-existence of a general correction term in continuous heating experiments. <i>Thermochimica Acta</i> , <b>1980</b> , 42, 289-294	2.9	14
51	Nonlinear hydrodynamic theory of crystallization. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 055001	1.8	13
50	Phase field theory of interfaces and crystal nucleation in a eutectic system of fcc structure: I. Transitions in the one-phase liquid region. <i>Journal of Chemical Physics</i> , <b>2007</b> , 127, 074709	3.9	13
49	Classical density functional theory methods in soft and hard matter. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 360301	1.8	12
48	Analytical density functional theory of homogeneous vapor condensation. <i>Physical Review E</i> , <b>2000</b> , 62, 7486-9	2.4	12
47	Infrared and differential-scanning-calorimetry study of the room-temperature cubic phase of RbC60. <i>Physical Review B</i> , <b>1995</b> , 52, 11488-11491	3.3	12
46	Crystal nucleation and growth of spherulites demonstrated by coral skeletons and phase-field simulations. <i>Acta Biomaterialia</i> , <b>2021</b> , 120, 277-292	10.8	12
45	Molecular and crystal structure of the AC60 (A = K, Rb) dimer phase. <i>Journal of Physics and Chemistry of Solids</i> , <b>1997</b> , 58, 1893-1896	3.9	11
44	Diffuse interface approach to crystal nucleation in glasses. <i>Journal of Non-Crystalline Solids</i> , <b>1995</b> , 192-193, 470-473	3.9	11
43	Models for continuous casting of metallic glass ribbons I: The applicability of the infinite-viscosity assumption to thermal history calculations. <i>Materials Science and Engineering</i> , <b>1985</b> , 72, 71-83		11
42	Models for continuous casting of metallic glass ribbons II: The effect of the melt pool on the cross-sectional homogeneity. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1989</b> , 111, 129-144	5.3	10
41	Hydrodynamic theory of freezing: Nucleation and polycrystalline growth. <i>Physical Review E</i> , <b>2017</b> , 95, 052801	2.4	9
40	Selected issues of phase-field crystal simulations. <i>European Physical Journal Plus</i> , <b>2011</b> , 126, 1	3.1	9
39	Crystal nucleation in the hard-sphere system revisited: a critical test of theoretical approaches. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 5141-8	3.4	9



38	Nucleation and Spinodal Decomposition. <i>Solid State Phenomena</i> , <b>1997</b> , 56, 67-106	0.4	9
37	On the diffuse interface theory of nucleation. <i>Scripta Metallurgica Et Materialia</i> , <b>1994</b> , 30, 621-626		9
36	The influence of diffusion on hydrate growth. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2005</b> , 26, 534-538		8
35	Anomalous nucleation prefactors revisited: a diffuse interface analysis of crystal nucleation in oxide glasses. <i>Scripta Metallurgica Et Materialia</i> , <b>1995</b> , 32, 1611-1617		8
34	Quantitative analysis of the classical nucleation theory on glass-forming alloys. <i>Journal of Non-Crystalline Solids</i> , <b>1993</b> , 156-158, 514-518	3.9	8
33	Laser-melted amorphous and crystalline Fe-B alloys. <i>Physical Review B</i> , <b>1990</b> , 42, 548-554	3.3	8
32	The influence of technological conditions on the Curie point relaxation of Fe <sub>25</sub> Ni <sub>55</sub> B <sub>10</sub> Si <sub>10</sub> metallic glasses. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1984</b> , 41, 113-115	2.8	8
31	Investigation of the thermal relaxation in glassy Ni <sub>80</sub> Fe <sub>x</sub> P <sub>20</sub> alloys. <i>Journal of Non-Crystalline Solids</i> , <b>1984</b> , 61-62, 907-912	3.9	6
30	Phase-field Theory of Nucleation and Growth in Binary Alloys. <i>Lecture Notes in Computational Science and Engineering</i> , <b>2003</b> , 190-195	0.3	6
29	Growth control of peptide-nanotube spherulitic films: Experiments and simulations. <i>Nano Research</i> , <b>2015</b> , 8, 3630-3638	10	5
28	Topological defects in two-dimensional orientation-field models for grain growth. <i>Physical Review E</i> , <b>2017</b> , 96, 052802	2.4	5
27	Encyclopedia of Polymers and Composites <b>2013</b> , 1-35		5
26	Diffuse interface model of volume nucleation in glasses. <i>Thermochimica Acta</i> , <b>1996</b> , 280-281, 83-100	2.9	5
25	Modelling of dendritic growth during ribbon formation in planar flow casting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1991</b> , 133, 722-725	5.3	5
24	Phase-Field Modeling of Biomineralization in Mollusks and Corals: Microstructure vs Formation Mechanism. <i>Jacs Au</i> , <b>2021</b> , 1, 1014-1033		4
23	Phase field benchmark problems for nucleation. <i>Computational Materials Science</i> , <b>2021</b> , 193, 110371	3.2	4
22	Correlation between the atomic and electronic structure of metallic glasses. <i>Hyperfine Interactions</i> , <b>1986</b> , 27, 381-384	0.8	3
21	Phase-Field Modeling of Solidification in Light-Metal Matrix Nanocomposites <b>2014</b> , 455-459		2



20	Temperature dependence of the iron hyperfine field distribution in amorphous Fe-rich Fe-Zr alloys. <i>Hyperfine Interactions</i> , <b>1994</b> , 94, 1861-1865	0.8	2
19	Modelling of crystal growth during the ribbon formation in planar flow casting. <i>Steel Research = Archiv für Das Eisenhüttenwesen</i> , <b>1990</b> , 61, 467-471		2
18	CEMS investigation of laser melted Fe <sub>2</sub> Zr alloys. <i>Hyperfine Interactions</i> , <b>1990</b> , 59, 481-484	0.8	2
17	Local structure of amorphous (Ni,Fe). <i>Journal of Non-Crystalline Solids</i> , <b>1990</b> , 117-118, 168-171	3.9	2
16	A simplified treatment of transient nucleation in case of rapid quenching. <i>Journal of Non-Crystalline Solids</i> , <b>1991</b> , 136, 266-268	3.9	2
15	Ultrafine Fe-Fe <sub>2</sub> Ti eutectics by directed energy deposition: Insights into microstructure formation based on experimental techniques and phase field modelling. <i>Additive Manufacturing</i> , <b>2020</b> , 33, 101133	6.1	1
14	Thermodynamics of A <sub>1</sub> C <sub>60</sub> (A = K, Rb, Cs) Alkali Fullerenes. <i>Fullerenes, Nanotubes, and Carbon Nanostructures</i> , <b>1997</b> , 5, 325-342		1
13	Phase selection and transformation kinetics in KC <sub>60</sub> . <i>Physical Review B</i> , <b>1996</b> , 54, 11865-11868	3.3	1
12	Heat transfer in the single roller quenching methods. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1991</b> , 133, 751-754	5.3	1
11	CEMS investigation of near surface structure. <i>Hyperfine Interactions</i> , <b>1990</b> , 57, 1823-1827	0.8	1
10	Phase-field modelling of directional melting of lamellar and rod eutectic structures. <i>Acta Materialia</i> , <b>2022</b> , 227, 117678	8.4	1
9	Phase-Field Crystal Modeling of Homogeneous and Heterogeneous Crystal Nucleation		1
8	Orientational order in dense suspensions of elliptical particles in the non-Stokesian regime. <i>Soft Matter</i> , <b>2020</b> , 16, 8925-8932	3.6	0
7	Nucleation and Post-Nucleation Growth in Diffusion-Controlled and Hydrodynamic Theory of Solidification. <i>Crystals</i> , <b>2021</b> , 11, 437	2.3	0
6	Simulation of the Dendritic Solidification during Single Roller Quenching. <i>Materials Science Forum</i> , <b>1991</b> , 77, 211-218	0.4	
5	Mechanism of ribbon formation in single-roller quenching. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1990</b> , 123, L5-L8	5.3	
4	Laser melted Fe <sub>2</sub> B alloys. <i>Journal of Non-Crystalline Solids</i> , <b>1990</b> , 117-118, 160-163	3.9	
3	Phase Field Modelling of Reaction Between Methane Hydrate and Fluid Carbon Dioxide		

2 Phase-Field Modeling of Solidification in Light-Metal Matrix Nanocomposites **2014**, 455-459

1 Microstructure Modeling **2016**, 269-323