

Tomohiro Takaki

List of Publications by Year in descending order

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148
papers

4,133
citations

101384

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149
all docs

149
docs citations

149
times ranked

2014
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterogeneity in homogeneous nucleation from billion-atom molecular dynamics simulation of solidification of pure metal. <i>Nature Communications</i> , 2017, 8, 10.	5.8	219
2	Phase-field Modeling and Simulations of Dendrite Growth. <i>ISIJ International</i> , 2014, 54, 437-444.	0.6	164
3	Two-dimensional phase-field simulations of dendrite competitive growth during the directional solidification of a binary alloy bicrystal. <i>Acta Materialia</i> , 2014, 81, 272-283.	3.8	129
4	Multi-phase-field simulations for dynamic recrystallization. <i>Computational Materials Science</i> , 2009, 45, 881-888.	1.4	128
5	Peta-scale phase-field simulation for dendritic solidification on the TSUBAME 2.0 supercomputer. , 2011, , .		117
6	A phase-field-lattice Boltzmann method for modeling motion and growth of a dendrite for binary alloy solidification in the presence of melt convection. <i>Journal of Computational Physics</i> , 2015, 298, 29-40.	1.9	117
7	Elastoplastic phase-field simulation of self- and plastic accommodations in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll" \rangle \langle \text{mml:mtext} \rangle \text{Cubic} \langle / \text{mml:mtext} \rangle \langle \text{mml:mo} \rangle \hat{\uparrow} \langle / \text{mml:mo} \rangle \langle \text{mml:mtext} \rangle \text{tetragonal} \langle / \text{mml:mtext} \rangle \langle \text{mml:mtext} \rangle \text{martensitic transformation. } \langle \text{mml:mtext} \rangle \text{Materials Science \& Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 491, 270-284.}$	0.6	117
8	Unexpected selection of growing dendrites by very-large-scale phase-field simulation. <i>Journal of Crystal Growth</i> , 2013, 382, 21-25.	0.7	109
9	Static recrystallization simulations starting from predicted deformation microstructure by coupling multi-phase-field method and finite element method based on crystal plasticity. <i>International Journal of Mechanical Sciences</i> , 2010, 52, 320-328.	3.6	100
10	Solidification in a Supercomputer: From Crystal Nuclei to Dendrite Assemblages. <i>Jom</i> , 2015, 67, 1793-1804.	0.9	92
11	Multi-Phase-Field Model to Simulate Microstructure Evolutions during Dynamic Recrystallization. <i>Materials Transactions</i> , 2008, 49, 2559-2565.	0.4	91
12	Primary arm array during directional solidification of a single-crystal binary alloy: Large-scale phase-field study. <i>Acta Materialia</i> , 2016, 118, 230-243.	3.8	87
13	Submicrometer-scale molecular dynamics simulation of nucleation and solidification from undercooled melt: Linkage between empirical interpretation and atomistic nature. <i>Acta Materialia</i> , 2016, 105, 328-337.	3.8	86
14	Homogeneous nucleation and microstructure evolution in million-atom molecular dynamics simulation. <i>Scientific Reports</i> , 2015, 5, 13534.	1.6	84
15	Multi-GPUs parallel computation of dendrite growth in forced convection using the phase-field-lattice Boltzmann model. <i>Journal of Crystal Growth</i> , 2017, 474, 154-159.	0.7	81
16	GPU-accelerated phase-field simulation of dendritic solidification in a binary alloy. <i>Journal of Crystal Growth</i> , 2011, 318, 40-45.	0.7	79
17	Ultra-large-scale phase-field simulation study of ideal grain growth. <i>Npj Computational Materials</i> , 2017, 3, .	3.5	77
18	Two-dimensional phase-field study of competitive grain growth during directional solidification of polycrystalline binary alloy. <i>Journal of Crystal Growth</i> , 2016, 442, 14-24.	0.7	76

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19	Multiscale modeling of hot-working with dynamic recrystallization by coupling microstructure evolution and macroscopic mechanical behavior. <i>International Journal of Plasticity</i> , 2014, 52, 105-116.	4.1	75
20	Elastoplastic phase-field simulation of martensitic transformation with plastic deformation in polycrystal. <i>International Journal of Mechanical Sciences</i> , 2010, 52, 245-250.	3.6	74
21	Multi-phase-field modeling using a conservative Allen-Cahn equation for multiphase flow. <i>Computers and Fluids</i> , 2019, 178, 141-151.	1.3	73
22	Phase-field model during static recrystallization based on crystal-plasticity theory. <i>Journal of Computer-Aided Materials Design</i> , 2007, 14, 75-84.	0.7	69
23	Development of numerical scheme for phase field crystal deformation simulation. <i>Computational Materials Science</i> , 2009, 44, 1192-1197.	1.4	69
24	Phase-field simulation during directional solidification of a binary alloy using adaptive finite element method. <i>Journal of Crystal Growth</i> , 2005, 283, 263-278.	0.7	67
25	Phase-field lattice Boltzmann simulations of multiple dendrite growth with motion, collision, and coalescence and subsequent grain growth. <i>Computational Materials Science</i> , 2018, 147, 124-131.	1.4	66
26	Phase-field-lattice Boltzmann studies for dendritic growth with natural convection. <i>Journal of Crystal Growth</i> , 2017, 474, 146-153.	0.7	61
27	Competitive grain growth during directional solidification of a polycrystalline binary alloy: Three-dimensional large-scale phase-field study. <i>Materialia</i> , 2018, 1, 104-113.	1.3	57
28	Finite Element Simulation of Bolt-Up Process of Pipe Flange Connections With Spiral Wound Gasket. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2003, 125, 371-378.	0.4	50
29	Validation of a novel higher-order multi-phase-field model for grain-growth simulations using anisotropic grain-boundary properties. <i>Computational Materials Science</i> , 2016, 112, 44-51.	1.4	50
30	Phase-Field Simulation of Austenite to Ferrite Transformation and Widmanstätten Ferrite Formation in Fe-C Alloy. <i>Materials Transactions</i> , 2006, 47, 2725-2731.	0.4	49
31	Large-scale phase-field lattice Boltzmann study on the effects of natural convection on dendrite morphology formed during directional solidification of a binary alloy. <i>Computational Materials Science</i> , 2020, 171, 109209.	1.4	42
32	Advent of Cross-Scale Modeling: High-Performance Computing of Solidification and Grain Growth. <i>Advanced Theory and Simulations</i> , 2018, 1, 1800065.	1.3	40
33	Simulation of Austenite-to-ferrite Transformation in Deformed Austenite by Crystal Plasticity Finite Element Method and Multi-phase-field Method. <i>ISIJ International</i> , 2012, 52, 659-668.	0.6	39
34	GPU phase-field lattice Boltzmann simulations of growth and motion of a binary alloy dendrite. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 84, 012066.	0.3	39
35	Large-scale Phase-field Studies of Three-dimensional Dendrite Competitive Growth at the Converging Grain Boundary during Directional Solidification of a Bicrystal Binary Alloy. <i>ISIJ International</i> , 2016, 56, 1427-1435.	0.6	39
36	Three-dimensional morphologies of inclined equiaxed dendrites growing under forced convection by phase-field-lattice Boltzmann method. <i>Journal of Crystal Growth</i> , 2018, 483, 147-155.	0.7	39

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37	Two-dimensional large-scale phase-field lattice Boltzmann simulation of polycrystalline equiaxed solidification with motion of a massive number of dendrites. <i>Computational Materials Science</i> , 2020, 178, 109639.	1.4	39
38	Permeability prediction for flow normal to columnar solidification structures by large-scale simulations of phase-field and lattice Boltzmann methods. <i>Acta Materialia</i> , 2019, 164, 237-249.	3.8	37
39	Grain growth kinetics in submicrometer-scale molecular dynamics simulation. <i>Acta Materialia</i> , 2018, 153, 108-116.	3.8	36
40	Effects of temperature and grain size on phase-field-crystal deformation simulation. <i>International Journal of Mechanical Sciences</i> , 2010, 52, 309-319.	3.6	33
41	Elastic Plastic Finite Element Analysis of Bolted Joint During Tightening Process. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2003, 125, 823-830.	1.7	31
42	Free Energy Problem for the Simulations of the Growth of Fe₂B Phase Using Phase-Field Method. <i>Materials Transactions</i> , 2008, 49, 2625-2631.	0.4	31
43	Extended higher-order multi-phase-field model for three-dimensional anisotropic-grain-growth simulations. <i>Computational Materials Science</i> , 2016, 120, 77-83.	1.4	31
44	Variational formulation and numerical accuracy of a quantitative phase-field model for binary alloy solidification with two-sided diffusion. <i>Physical Review E</i> , 2016, 93, 012802.	0.8	31
45	Variational formulation of a quantitative phase-field model for nonisothermal solidification in a multicomponent alloy. <i>Physical Review E</i> , 2017, 96, 033311.	0.8	31
46	Finite Element Simulation of Bolt-Up Process of Pipe Flange Connections. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2001, 123, 282-287.	0.4	29
47	Large-scale phase-field study of anisotropic grain growth: Effects of misorientation-dependent grain boundary energy and mobility. <i>Computational Materials Science</i> , 2021, 186, 109992.	1.4	29
48	Two-dimensional phase-field simulation of self-assembled quantum dot formation. <i>Journal of Crystal Growth</i> , 2006, 287, 495-499.	0.7	28
49	Coupled simulation of microstructural formation and deformation behavior of ferrite-pearlite steel by phase-field method and homogenization method. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 480, 244-252.	2.6	28
50	Permeability tensor for columnar dendritic structures: Phase-field and lattice Boltzmann study. <i>Acta Materialia</i> , 2020, 188, 282-287.	3.8	27
51	Mechanical Behaviors of Bolted Joint during Tightening Using Torque Control.. <i>JSME International Journal Series A-Solid Mechanics and Material Engineering</i> , 1998, 41, 185-191.	0.4	25
52	GPU-accelerated 3D phase-field simulations of dendrite competitive growth during directional solidification of binary alloy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 84, 012063.	0.3	25
53	Simulation method based on phase-field lattice Boltzmann model for long-distance sedimentation of single equiaxed dendrite. <i>Computational Materials Science</i> , 2019, 164, 39-45.	1.4	25
54	Multi-phase-field study of the effects of anisotropic grain-boundary properties on polycrystalline grain growth. <i>Journal of Crystal Growth</i> , 2017, 474, 160-165.	0.7	24

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55	Molecular dynamics simulations investigating consecutive nucleation, solidification and grain growth in a twelve-million-atom Fe-system. <i>Journal of Crystal Growth</i> , 2017, 474, 140-145.	0.7	23
56	Phase-field study of interface energy effect on quantum dot morphology. <i>Journal of Crystal Growth</i> , 2008, 310, 2248-2253.	0.7	22
57	Multiscale Hot-working Simulations Using Multi-phase-field and Finite Element Dynamic Recrystallization Model. <i>ISIJ International</i> , 2014, 54, 452-459.	0.6	22
58	Bayesian inference of solid-liquid interfacial properties out of equilibrium. <i>Physical Review E</i> , 2020, 101, 052121.	0.8	22
59	Multi-phase-field Simulations of Dynamic Recrystallization during Transient Deformation. <i>ISIJ International</i> , 2011, 51, 1717-1723.	0.6	21
60	Bridging molecular dynamics and phase-field methods for grain growth prediction. <i>Computational Materials Science</i> , 2018, 152, 118-124.	1.4	21
61	Numerical testing of quantitative phase-field models with different polynomials for isothermal solidification in binary alloys. <i>Journal of Computational Physics</i> , 2017, 335, 621-636.	1.9	20
62	Parallel-GPU-accelerated adaptive mesh refinement for three-dimensional phase-field simulation of dendritic growth during solidification of binary alloy. <i>Materials Theory</i> , 2022, 6, .	2.2	20
63	Evaluations of the Tightening Process of Bolted Joint With Elastic Angle Control Method. , 2004, , 11.		19
64	Multi-phase-field modeling of diffusive solid phase transition in carbon steel during continuous cooling transformation. <i>Journal of Crystal Growth</i> , 2008, 310, 1337-1342.	0.7	19
65	Acceleration of phase-field lattice Boltzmann simulation of dendrite growth with thermosolutal convection by the multi-GPUs parallel computation with multiple mesh and time step method. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019, 27, 054004.	0.8	19
66	Accuracy Evaluation of Phase-field Models for Grain Growth Simulation with Anisotropic Grain Boundary Properties. <i>ISIJ International</i> , 2020, 60, 160-167.	0.6	19
67	Phase-field lattice Boltzmann method with two-relaxation-time model for dendrite growth of a binary alloy with melt convection. <i>Computational Materials Science</i> , 2021, 186, 110070.	1.4	17
68	The Effects of Structure Orientation on the Growth of Fe₂/S_B Boride by Multi-Phase-Field Simulation. <i>Materials Transactions</i> , 2010, 51, 62-67.	0.4	16
69	A parametric study of morphology selection in equiaxed dendritic solidification. <i>Computational Materials Science</i> , 2019, 162, 76-81.	1.4	16
70	Numerical investigations of stress in dendrites caused by gravity. <i>Journal of Crystal Growth</i> , 2011, 337, 97-101.	0.7	14
71	A Molecular Dynamics Study of Partitionless Solidification and Melting of Al-Cu Alloys. <i>ISIJ International</i> , 2017, 57, 1774-1779.	0.6	14
72	Large-scale phase-field simulation of three-dimensional isotropic grain growth in polycrystalline thin films. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019, 27, 054003.	0.8	14

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73	Micrometer-scale molecular dynamics simulation of microstructure formation linked with multi-phase-field simulation in same space scale. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019, 27, 054002.	0.8	14
74	Multi-phase-field lattice Boltzmann model for polycrystalline equiaxed solidification with motion. <i>Computational Materials Science</i> , 2021, 197, 110658.	1.4	14
75	Competitive growth during directional solidification of a binary alloy with natural convection: two-dimensional phase-field study. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019, 27, 054001.	0.8	13
76	Novel estimation method for anisotropic grain boundary properties based on Bayesian data assimilation and phase-field simulation. <i>Materials and Design</i> , 2021, 210, 110089.	3.3	13
77	Correlation between three-dimensional and cross-sectional characteristics of ideal grain growth: large-scale phase-field simulation study. <i>Journal of Materials Science</i> , 2018, 53, 15165-15180.	1.7	12
78	Multiphase Field Simulation of Austenite-to-Ferrite Transformation Accelerated by GPU Computing. <i>Journal of Computational Science and Technology</i> , 2012, 6, 182-197.	0.4	11
79	Simulation of turbulent bubbly pipe flow with high density ratio and high Reynolds number by using the lattice Boltzmann method and a multi-phase field model. <i>International Journal of Multiphase Flow</i> , 2021, 134, 103505.	1.6	11
80	Bayesian Data Assimilation of Temperature Dependence of Solid-Liquid Interfacial Properties of Nickel. <i>Nanomaterials</i> , 2021, 11, 2308.	1.9	11
81	Phase-field study on an array of tilted columnar dendrites during the directional solidification of a binary alloy. <i>Computational Materials Science</i> , 2022, 203, 111143.	1.4	11
82	Phase-Field Modeling for Dynamic Recrystallization. <i>Advanced Structured Materials</i> , 2015, , 441-459.	0.3	10
83	Mechanical Behaviors of Bolted Joint in Various Clamping Configurations. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 1998, 120, 226-231.	0.4	9
84	Multi-Phase-Field Modeling of Transformation Kinetics at Multiple Scales and Its Application to Welding of Steel. <i>Materials Transactions</i> , 2019, 60, 170-179.	0.4	9
85	Overgrowth behavior at converging grain boundaries during competitive grain growth: A two-dimensional phase-field study. <i>International Journal of Heat and Mass Transfer</i> , 2020, 160, 120196.	2.5	9
86	Three-Dimensional Finite Element Analysis of Pipe Flange. Effects of Flange Interface Geometry.. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 1998, 64, 2402-2407.	0.2	8
87	Systematical FE Analysis of Bolt Assembly Process of Pipe Flange Connections. , 2002, , 147.		8
88	Effective Bolting Up Procedure Using Finite Element Analysis and Elastic Interaction Coefficient Method. , 2004, , 155.		8
89	Uniquely selected primary dendrite arm spacing during competitive growth of columnar grains in Al-Cu alloy. <i>Journal of Crystal Growth</i> , 2021, 558, 126014.	0.7	8
90	Phase-Field Modeling and Simulation of Nucleation and Growth of Recrystallized Grains. <i>Materials Science Forum</i> , 2007, 558-559, 1195-1200.	0.3	7

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91	Development of multi-phase-field crack model for crack propagation in polycrystal. International Journal of Computational Materials Science and Engineering, 2014, 03, 1450009.	0.5	7
92	Phase-field modeling for axonal extension of nerve cells. Mechanical Engineering Journal, 2015, 2, 15-00063-15-00063.	0.2	7
93	Phase-Field Simulation during Spherulite Formation of Polymer. Key Engineering Materials, 2007, 345-346, 939-942.	0.4	6
94	Microsegregation in multicomponent alloy analysed by quantitative phase-field model. IOP Conference Series: Materials Science and Engineering, 2015, 84, 012075.	0.3	6
95	Multi-phase field topology optimization of polycrystalline microstructure for maximizing heat conductivity. Structural and Multidisciplinary Optimization, 2018, 57, 1937-1954.	1.7	6
96	A domain partitioning method using a multi-phase-field model for block-based AMR applications. Parallel Computing, 2020, 97, 102647.	1.3	6
97	Simulation of Microstructure Evolution and Deformation Behavior for Dual-Phase Steel by Multi-Phase-Field Method and Elastoplastic Finite Element Method. International Journal of Automation Technology, 2013, 7, 16-23.	0.5	6
98	Parallel GPU-accelerated adaptive mesh refinement on two-dimensional phase-field lattice Boltzmann simulation of dendrite growth. Computational Materials Science, 2022, 211, 111507.	1.4	6
99	Phase-field topology optimization model that removes the curvature effects. Mechanical Engineering Journal, 2017, 4, 16-00462-16-00462.	0.2	5
100	Mechanical Behaviors of Bolted Joint during Tightening Using Torque Control.. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 1997, 63, 1083-1088.	0.2	4
101	Effects of Flange Rotation on the Sealing Performance of Pipe Flange Connections. , 2004, , 121.		4
102	Development of Phase-Field Model and Computational Procedure During Static Primary Recrystallization. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2007, 73, 482-489.	0.2	4
103	Multi-Phase-Field Simulation of Flow Stress and Microstructural Evolution during Deformation-Induced Ferrite Transformation in a Fe-C Alloy. ISIJ International, 2014, 54, 2917-2925.	0.6	4
104	Two-dimensional phase-field study for spangle texture formation in hot-dip galvanizing. Computational Materials Science, 2021, 187, 110077.	1.4	4
105	Evaluations of Bolt-Up Sequence of Pipe Flange Using Three-Dimensional Finite Element Analysis.. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 1998, 64, 2734-2740.	0.2	3
106	Elasto-Plastic Analysis of the Tightening Process of Bolted Joint.. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2001, 67, 1269-1275.	0.2	3
107	Effective Bolt-Up Procedure of Pipe Flange Connections. Finite Element Analyses and Elastic Interaction Coefficient Methods.. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2002, 68, 550-557.	0.2	3
108	Phase-Field Simulations of Anisotropic Morphologies during Directional Solidification of a Binary Alloy. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2004, 70, 456-463.	0.2	3

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127	Phase-Field Simulation during Spherulite Formation of Polymer. Key Engineering Materials, 0, , 939-942.	0.4	1
128	A phase-field-lattice Boltzmann method for predicting dendritic growth and motion in solidification of binary alloys. The Proceedings of the Computational Mechanics Conference, 2014, 2014.27, 591-592.	0.0	1
129	Bolt-Up Guideline for Pipe Flange Connections. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2004, 70, 2492-2499.	0.2	0
130	Phase-field Analysis of Austenite-to-ferrite Transformation and Carbon Diffusion in Fe-C Alloy. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2007, 73, 209-215.	0.2	0
131	Phase-Field Modeling of Morphological Change of Ferrite during Decomposition of Austenite in Fe-C Alloy. Key Engineering Materials, 0, 345-346, 935-938.	0.4	0
132	Development of Crystal Plasticity Phase-Field Model and Simulation of Microstructure Evolution with Plastic Deformation. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2009, 75, 1794-1803.	0.2	0
133	Axial Bolt Force Behaviours under High Temperature and Long Time of Single Bolted Connection with Soft Gasket. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2010, 76, 2219-2224.	0.2	0
134	Development of Phase Field Simulation for the Growth of Dendrite Structure of Al-Si Cast Alloy. Materials Science Forum, 0, 737, 37-42.	0.3	0
135	Multi-Phase-Field Analysis of Stress-Strain Curve and Ferrite Grain Formation during Dynamic Strain-Induced Ferrite Transformation. Key Engineering Materials, 2014, 626, 81-84.	0.4	0
136	Phase-Field Analysis of Dendrite Growth with Melt Flow. Japanese Journal of Multiphase Flow, 2018, 32, 337-344.	0.1	0
137	Finite Element Simulation of the Disassembly Process of Pipe Flange Connections. , 2002, , .		0
138	Bolting Up Simulation of Pipe Flange Connections Taking Clamping Force Scatter Into Consideration. , 2004, , .		0
139	Phase-Field Simulation of Shape Evolution and Bimodal Size Distribution of Self-Assembled Quantum Dots. Zairyo/Journal of the Society of Materials Science, Japan, 2006, 55, 929-935.	0.1	0
140	Mechanical Behaviors of Pipe Flange Connection with Filled PTFE Gasket. Zairyo/Journal of the Society of Materials Science, Japan, 2011, 60, 521-526.	0.1	0
141	907 Evaluation of Fundamental Performance on Phase-Field Topology Optimization Model. The Proceedings of the Computational Mechanics Conference, 2011, 2011.24, 298-299.	0.0	0
142	Phase-field Modeling to Predict Microstructure and Mechanical Behavior of Polycrystalline Metallic Materials. Journal of the Japan Society for Technology of Plasticity, 2013, 54, 906-910.	0.0	0
143	W012004 Dynamic Recrystallization Simulations of LPSO Type Magnesium Alloy by Phase-Field Method. The Proceedings of Mechanical Engineering Congress Japan, 2013, 2013, _W012004-1-_W012004-4.	0.0	0
144	101 Development of a multi-phase-field-lattice Boltzmann model for multiple dendrites growing under melt convection. The Proceedings of the Computational Mechanics Conference, 2015, 2015.28, _101-1_-_101-2_.	0.0	0

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145	Variational formulation of quantitative phase-field model. The Proceedings of the Computational Mechanics Conference, 2016, 2016.29, 4_133.	0.0	0
146	Recent developments of dendritic solidification simulations by phase-field method. Keikinzoiku/Journal of Japan Institute of Light Metals, 2019, 69, 562-568.	0.1	0
147	High Performance Computing of Solidification Microstructures and Emergence of Cross-scale Approach. Materia Japan, 2020, 59, 139-144.	0.1	0
148	Inverse analysis of anisotropy of solid-liquid interfacial free energy based on machine learning. Computational Materials Science, 2022, 207, 111294.	1.4	0