

Akinori Yamanaka

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.

136
papers

1,282
citations

18
h-index

34
g-index

142
ext. papers

1,461
ext. citations

2.5
avg, IF

4.73
L-index

#	Paper	IF	Citations
136	Image features of a splashing drop on a solid surface extracted using a feedforward neural network. <i>Physics of Fluids</i> , 2022 , 34, 013317	4.4	4
135	Efficient estimation of material parameters using DMC-BO: Application to phase-field simulation of solid-state sintering. <i>Materials Today Communications</i> , 2022 , 30, 103089	2.5	1
134	BOXVIA: Bayesian optimization executable and visualizable application. <i>SoftwareX</i> , 2022 , 18, 101019	2.7	
133	Bayesian texture optimization using deep neural network-based numerical material test. <i>International Journal of Mechanical Sciences</i> , 2022 , 223, 107285	5.5	0
132	Quantitative three-dimensional phase-field modeling of dendritic solidification coupled with local ensemble transform Kalman filter. <i>Computational Materials Science</i> , 2021 , 190, 110296	3.2	4
131	Estimation of solid-state sintering and material parameters using phase-field modeling and ensemble four-dimensional variational method. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2021 , 29, 065012	2	2
130	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	8.1	1
129	Phase-Field Simulation of Sn-Cu Alloys Containing Intermetallic Compounds. <i>The Proceedings of the Computational Mechanics Conference</i> , 2021 , 2021.34, 122	0	
128	Multi-phase-field modelling of electromigration-induced void migration in interconnect lines having bamboo structures. <i>Computational Materials Science</i> , 2020 , 184, 109848	3.2	3
127	Development of Microstructure Simulation System in SIP-Materials Integration Projects. <i>Materials Transactions</i> , 2020 , 61, 2047-2051	1.3	2
126	Estimation of Texture-Dependent Stress-Strain Curve and r-Value of Aluminum Alloy Sheet Using Deep Learning. <i>Materials Transactions</i> , 2020 , 61, 2276-2283	1.3	7
125	Estimation of Texture-dependent Stress-Strain Curve and r-value of Aluminum Alloy Sheet Using Deep Learning. <i>Journal of the Japan Society for Technology of Plasticity</i> , 2020 , 61, 48-55	0.3	
124	Data assimilation for three-dimensional phase-field simulation of dendritic solidification using the local ensemble transform Kalman filter. <i>Materials Today Communications</i> , 2020 , 25, 101331	2.5	3
123	Deep neural network approach to estimate biaxial stress-strain curves of sheet metals. <i>Materials and Design</i> , 2020 , 195, 108970	8.1	18
122	Grain boundary mobilities in polycrystals. <i>Acta Materialia</i> , 2020 , 191, 211-220	8.4	25
121	Ensemble Kalman filter-based data assimilation for three-dimensional multi-phase-field model: Estimation of anisotropic grain boundary properties. <i>Materials and Design</i> , 2019 , 165, 107577	8.1	16
120	Solidification analysis by non-equilibrium phase field model using thermodynamics data estimated by machine learning. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019 , 27, 084008	2	3

119	Three-dimensional phase-field simulation of microstructure formation during solid-state sintering in polycrystalline superconducting materials. <i>The Proceedings of the Computational Mechanics Conference, 2019, 2019.32, 034</i>			0
118	Conditional Generative Adversarial Networks used to Design Microstructures in Aluminum Alloys. <i>The Proceedings of the Computational Mechanics Conference, 2019, 2019.32, 061</i>			0
117	Rapid estimation of deformation behavior of aluminum alloy sheet using deep learning. <i>The Proceedings of the Computational Mechanics Conference, 2019, 2019.32, 055</i>			0
116	Evaluation of Estimation Accuracy of Sequential Data Assimilation Methods for Phase-field Models. <i>The Proceedings of the Computational Mechanics Conference, 2019, 2019.32, 056</i>			0
115	Phase-field simulation of steel microstructure changes during welding process coupled with CCT diagram. <i>The Proceedings of the Computational Mechanics Conference, 2019, 2019.32, 143</i>			0
114	Application of the data assimilation method incorporating conservation laws and constraints to the phase-field method. <i>The Proceedings of the Computational Mechanics Conference, 2019, 2019.32, 115</i>			0
113	Non-equilibrium Multi-Phase-Field Simulation of Growth of Intermetallic Compounds in Sn-Cu Alloy. <i>The Proceedings of the Computational Mechanics Conference, 2019, 2019.32, 247</i>			0
112	Data Assimilation for Simulation of Alloy Solidification Using Local Ensemble Transform Kalman Filter. <i>The Proceedings of the Computational Mechanics Conference, 2019, 2019.32, 060</i>			0
111	Progress in phase-field method integrated with data assimilation. <i>Keikinzoku/Journal of Japan Institute of Light Metals, 2019, 69, 591-601</i>			0.3
110	Voxel coarsening approach on image-based finite element modeling of representative volume element. <i>International Journal of Mechanical Sciences, 2019, 150, 314-321</i>		5.5	7
109	Phase-Field Simulation of Growth Stagnation During BCC Transformation in Fe-X-Y and Fe-C-Mn Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 5023-5034</i>		2.3	5
108	Data assimilation of Elastoplastic Finite Element Analysis Based on the Ensemble Kalman Filter. <i>The Proceedings of the Computational Mechanics Conference, 2018, 2018.31, 088</i>			0
107	Evaluation of discharge performance of LiCoO ₂ -type lithium ion battery using phase field method. <i>The Proceedings of the Computational Mechanics Conference, 2018, 2018.31, 089</i>			0
106	Polycrystalline Grain Growth Simulation using Phase-field Crystal Method. <i>The Proceedings of the Computational Mechanics Conference, 2018, 2018.31, 067</i>			0
105	Development of three-dimensional simulation method of the void migration caused by electromigration in the interconnect line with bamboo structure. <i>The Proceedings of the Computational Mechanics Conference, 2018, 2018.31, 091</i>			0
104	Simulation of Corrosion in Iron using Phase-field Method. <i>The Proceedings of Conference of Kanto Branch, 2018, 2018.24, GS0118</i>			0
103	Data Assimilation of Static Recrystallization Simulation using Multi-phase-field Method. <i>The Proceedings of the Computational Mechanics Conference, 2018, 2018.31, 087</i>			0
102	Molten metal flow coupling non-equilibrium phase-field model simulation using thermodynamics data estimated by machine learning for solidification microstructure evolution. <i>The Proceedings of the Computational Mechanics Conference, 2018, 2018.31, 066</i>			0 2

101	Data assimilation for phase-field models based on the ensemble Kalman filter. <i>Computational Materials Science</i> , 2018 , 141, 141-152	3.2	20
100	Influence of hardening functions on earing prediction in cup drawing of AA3104 aluminum alloy sheet. <i>Journal of Physics: Conference Series</i> , 2018 , 1063, 012114	0.3	2
99	Numerical Biaxial Tensile and Tension-Compression Tests of Aluminum Alloy Sheet Using Crystal Plasticity Finite Element Method. <i>Materials Science Forum</i> , 2018 , 920, 187-192	0.4	
98	Prediction of Static Recrystallization Nucleation Sites in Tensile Deformed Single Crystal Pure Iron through a Combination of In-Situ EBSD and CP-FEM. <i>Metals</i> , 2018 , 8, 858	2.3	1
97	Texture evolution in single crystal iron static recrystallization through in-situ EBSD observation. <i>Procedia Manufacturing</i> , 2018 , 15, 1565-1572	1.5	2
96	Work hardening during alternating load directions of 316L SS. <i>Procedia Manufacturing</i> , 2018 , 15, 1777-1784	1.8	4
95	Microstructure-based multiscale approach to obtain mechanical property of duplex stainless steel according to ICME concept. <i>Journal of Physics: Conference Series</i> , 2018 , 1063, 012188	0.3	
94	Phase-field modeling for pH-dependent general and pitting corrosion of iron. <i>Scientific Reports</i> , 2018 , 8, 12777	4.9	11
93	Phase field crystal simulation of grain boundary motion, grain rotation and dislocation reactions in a BCC bicrystal. <i>Acta Materialia</i> , 2017 , 133, 160-171	8.4	39
92	Solidification Simulation of Fe-Cr-Ni-Mo-C Duplex Stainless Steel Using CALPHAD-Coupled Multi-phase Field Model with Finite Interface Dissipation. <i>Minerals, Metals and Materials Series</i> , 2017 , 283-292	0.3	1
91	Multi-phase-field simulation of cyclic phase transformation in Fe-C-Mn and Fe-C-Mn-Si alloys. <i>Computational Materials Science</i> , 2017 , 136, 67-75	3.2	27
90	Development of Microstructure-Based Multiscale Simulation Process for Hot Rolling of Duplex Stainless Steel. <i>Minerals, Metals and Materials Series</i> , 2017 , 345-352	0.3	
89	Microstructure-Based Multiscale Analysis of Hot Rolling of Duplex Stainless Steel Using Various Simulation Software. <i>Integrating Materials and Manufacturing Innovation</i> , 2017 , 6, 69-82	2.9	5
88	Analysis of β -transformation in Fe-C-Mn ternary alloy by phase-field simulation coupled with CALPHAD database. <i>Journal of Crystal Growth</i> , 2017 , 468, 63-67	1.6	5
87	A study on crystalline microstructure control for development of functional surfaces. <i>Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21</i> , 2017 , 2017.9, 052		
86	Phase-field crystal and molecular dynamics simulations of grain boundary migration and dislocation behavior. <i>The Proceedings of the Computational Mechanics Conference</i> , 2017 , 2017.30, 163	0	
85	Application of Ensemble Kalman Smoother to Phase-field Method. <i>The Proceedings of the Computational Mechanics Conference</i> , 2017 , 2017.30, 099	0	
84	Generalized evaluation method for anisotropy of elastic tensor obtained by homogenization method and its application to transverse isotropic material property. <i>The Proceedings of the Computational Mechanics Conference</i> , 2017 , 2017.30, 068	0	

83	Nano Simulation Study of Mechanical Property Parameter for Microstructure-Based Multiscale Simulation. <i>Minerals, Metals and Materials Series</i> , 2017 , 327-332	0.3	
82	Search for elastic constants associated with machine learning. <i>The Proceedings of the Computational Mechanics Conference</i> , 2017 , 2017.30, 246	0	
81	Analysis of stress evolution in LiCoO ₂ positive electrode of lithium-ion battery by phase-field method. <i>The Proceedings of the Computational Mechanics Conference</i> , 2017 , 2017.30, 106	0	
80	Phase-field crystal simulation of grain boundary migration and grain rotation. <i>The Proceedings of the Computational Mechanics Conference</i> , 2016 , 2016.29, 4_261	0	
79	Data Assimilation of 2D Phase-field Simulation using Ensemble Kalman Filter. <i>The Proceedings of the Computational Mechanics Conference</i> , 2016 , 2016.29, 4_273	0	
78	Numerical biaxial tensile test and forming simulation by crystal plasticity finite element method. <i>The Proceedings of the Computational Mechanics Conference</i> , 2016 , 2016.29, 4_238	0	
77	Development of MPI parallel program of multi-phase-field model coupled with CALPHAD database for duplex-phase solidification in quinary system of stainless steel. <i>The Proceedings of the Computational Mechanics Conference</i> , 2016 , 2016.29, 073	0	
76	Nano simulation study of mechanical property parameter for microstructure-based multiscale simulation. <i>The Proceedings of the Computational Mechanics Conference</i> , 2016 , 2016.29, 4_126	0	
75	Grain Growth in a System Containing Finely Dispersed Mobile Second-Phase Particles: A GPU-Accelerated Multi-Phase-Field Study 2016 , 29-34		
74	Multi-Phase-Field Modeling of Austenite-to-Ferrite Transformation in Fe-C-Mn-Si Alloy. <i>The Proceedings of the Computational Mechanics Conference</i> , 2016 , 2016.29, 087	0	
73	Data assimilation for massive autonomous systems based on a second-order adjoint method. <i>Physical Review E</i> , 2016 , 94, 043307	2.4	28
72	Numerical biaxial tensile test for sheet metal forming simulation of aluminium alloy sheets based on the homogenized crystal plasticity finite element method. <i>Journal of Physics: Conference Series</i> , 2016 , 734, 032005	0.3	1
71	Numerical Biaxial Tensile Test of Aluminum Alloy Sheets Using Crystal Plasticity Model Implemented in Commercial FEM Software. <i>Key Engineering Materials</i> , 2016 , 725, 255-260	0.4	
70	Prediction of 3D Microstructure and Plastic Deformation Behavior in Dual-Phase Steel Using Multi-Phase Field and Crystal Plasticity FFT Methods. <i>Key Engineering Materials</i> , 2015 , 651-653, 570-574	0.4	3
69	Control of Lamella precipitation in Ti-9 at.% Al single crystals by nanogroove-induced dislocation bands. <i>Acta Materialia</i> , 2015 , 96, 352-365	8.4	17
68	Material modeling and forming simulation of 5182 aluminum alloy sheet using numerical biaxial tensile test based on homogenized crystal plasticity finite element method. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2015 , 65, 561-567	0.3	12
67	Prediction of deformed- and recrystallized microstructures in metallic materials by crystal plasticity analysis and multi-phase-field method. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2015 , 65, 542-548	0.3	1
66	Biaxial tensile deformation simulation of 5000 series aluminum alloy sheet using crystal plasticity finite element method based on homogenization method and its experimental validation. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2015 , 65, 196-203	0.3	10

65	Phase-Field Modeling for Dynamic Recrystallization. <i>Advanced Structured Materials</i> , 2015 , 441-459	0.6	8
64	027 Three-dimensional Multi-phase-field Simulation of Polycrystalline Grain Growth with Mobile Particle Pinning. <i>The Proceedings of the Computational Mechanics Conference</i> , 2015 , 2015.28, _027-1_ _027-2_		
63	181 Three-dimensional Simulation of Deformed Austenite-to-ferrite Transformation in Steel using Crystal Plasticity FFT method and Multi-Phase-Field Method. <i>The Proceedings of the Computational Mechanics Conference</i> , 2015 , 2015.28, _181-1_ _181-2_	0	
62	134 Data assimilation for massive simulation models: in the case of the phase field model. <i>The Proceedings of the Computational Mechanics Conference</i> , 2015 , 2015.28, _134-1_ _134-2_	0	
61	207 Parallelization of Numerical Method for two-dimensional Non-equilibrium Multi-Phase Field Model of Quinary System. <i>The Proceedings of the Computational Mechanics Conference</i> , 2015 , 2015.28, _207-1_ _207-2_	0	
60	139 Two-dimensional Simulation of Austenite-to-ferrite Transformation in Fe-C-Mn alloy using Non-equilibrium Multi-Phase-Field Model. <i>The Proceedings of the Computational Mechanics Conference</i> , 2015 , 2015.28, _139-1_ _139-2_	0	
59	289 Growth of a crack in the Maxwell viscoelastic body containing pressurized pore. <i>The Proceedings of the Computational Mechanics Conference</i> , 2015 , 2015.28, _289-1_ _289-2_	0	
58	099 Implementation of Ensemble Kalman Filter to Phase-field Simulation. <i>The Proceedings of the Computational Mechanics Conference</i> , 2015 , 2015.28, _099-1_ _099-2_	0	
57	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	7.6	61
56	Multi-Phase-Field Analysis of Stress-Strain Curve and Ferrite Grain Formation during Dynamic Strain-Induced Ferrite Transformation. <i>Key Engineering Materials</i> , 2014 , 626, 81-84	0.4	
55	Nanoplastic deformation on Ti-9at.% Al single crystals for manipulation of every single lamella. <i>Acta Materialia</i> , 2014 , 76, 331-341	8.4	8
54	Regularly-formed three-dimensional gold nanodot array with controllable optical properties. <i>Journal of Micromechanics and Microengineering</i> , 2014 , 24, 045011	2	4
53	Optical property of metallic nanodot arrays fabricated by combination of nano plastic forming and thermal dewetting method. <i>Transactions of the JSME (in Japanese)</i> , 2014 , 80, MN0272-MN0272	0.2	
52	Multi-Phase-Field Simulation of Flow Stress and Microstructural Evolution during Deformation-Induced Ferrite Transformation in a Fe-C Alloy. <i>ISIJ International</i> , 2014 , 54, 2917-2925	1.7	3
51	Large Scale 3D Multi-Phase-Field Simulation of Microstructure Evolution Using TSUBAME2.5 GPU-Supercomputer 2014 , 59-64		
50	Effects of Morphology of Nanodots on Localized Surface Plasmon Resonance Property. <i>International Journal of Automation Technology</i> , 2014 , 8, 74-82	0.8	7
49	Simulation of Austenite-to-ferrite Transformation in Multi-component Steel using Non-equilibrium Multi-Phase-Field Model. <i>The Proceedings of the Computational Mechanics Conference</i> , 2014 , 2014.27, 571-572	0	
48	20105 Multi-Phase-Field Modeling of Dynamic Deformation-induced Ferrite Transformation. <i>The Proceedings of Conference of Kanto Branch</i> , 2014 , 2014.20, _20105-1_ _20105-2_	0	

47	Crystal plasticity finite element analysis of plastic deformation behavior of Zirconium. <i>The Proceedings of the Computational Mechanics Conference, 2014</i> , 2014.27, 5-6	0	
46	Homogenized Crystal Plasticity Finite Element Analysis and its Experimental Verification of Biaxial Deformation of Aluminum Alloy Sheet. <i>The Proceedings of the Computational Mechanics Conference, 2014</i> , 2014.27, 499-500	0	
45	Multi-Phase-Field Modelling of Deformation-induced Ferrite Transformation. <i>The Proceedings of the Computational Mechanics Conference, 2014</i> , 2014.27, 573-574	0	
44	Unexpected selection of growing dendrites by very-large-scale phase-field simulation. <i>Journal of Crystal Growth, 2013</i> , 382, 21-25	1.6	95
43	Fabrication of Gold Nanodot Array on Plastic Films for Bio-sensing Applications. <i>Procedia CIRP, 2013</i> , 5, 47-52	1.8	9
42	Optical Properties of Multilayer Ordered Gold Nanodot Array Fabricated by a Thermal Dewetting Method. <i>Procedia CIRP, 2013</i> , 5, 42-46	1.8	5
41	Simulation of Microstructure Evolution and Deformation Behavior for Dual-Phase Steel by Multi-Phase-Field Method and Elastoplastic Finite Element Method. <i>International Journal of Automation Technology, 2013</i> , 7, 16-23	0.8	6
40	1406 Evaluation of Microstructural Morphology Dependent Deformation Behavior of Dual-Phase Steel using Crystal Plasticity Finite Element and Multi-Phase-Field Methods. <i>The Proceedings of the Computational Mechanics Conference, 2013</i> , 2013.26, _1406-1_-_1406-2_	0	
39	805 Large-scale Multi-Phase-Field Simulation of Grain Growth in Polycrystals : Implementation on TSUBAME 2.0 GPU Supercomputer. <i>The Proceedings of the Computational Mechanics Conference, 2013</i> , 2013.26, _805-1_-_805-3_	0	
38	Phase-field Modeling to Predict Microstructure and Mechanical Behavior of Polycrystalline Metallic Materials. <i>Journal of the Japan Society for Technology of Plasticity, 2013</i> , 54, 906-910	0.3	
37	1604 Phase-Field Microelasticity Analysis of Stress Field Evolution in Grain Growth. <i>The Proceedings of the Computational Mechanics Conference, 2013</i> , 2013.26, _1604-1_-_1604-2_	0	
36	Efficient Fabrication of Ordered Metal Nanodot Array Using Nanoimprint Method with a TiN Thin-Film Mold and Annealing Method. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2012</i> , 78, 3995-4004		
35	Multiphase Field Simulation of Austenite-to-Ferrite Transformation Accelerated by GPU Computing. <i>Journal of Computational Science and Technology, 2012</i> , 6, 182-197		7
34	Fabrication of three-dimensional ordered nanodot array structures by a thermal dewetting method. <i>Nanotechnology, 2012</i> , 23, 485303	3.4	14
33	Effects of process conditions on nano-dot array formation by thermal dewetting. <i>Journal of Manufacturing Processes, 2012</i> , 14, 478-486	5	8
32	A New Process to Fabricate Three Dimensional Ordered Nano Dot Array Structures by Nano Plastic Forming and Dewetting. <i>Key Engineering Materials, 2012</i> , 523-524, 627-632	0.4	
31	MPF-FDTD Simulations of Fabrication and Optical Analysis of Ordered Gold Nano-Dots Array. <i>Key Engineering Materials, 2012</i> , 523-524, 621-626	0.4	
30	High Throughput Method to Fabricate Ordered Nano Dot Array on Various Plastic Films. <i>Key Engineering Materials, 2012</i> , 523-524, 633-638	0.4	6

29	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	1.7	36
28	1606 MPF-FDTD Modeling of Gold Nano-dots Array Formation and Optical Response due to LSPR. <i>The Proceedings of the Computational Mechanics Conference</i> , 2012 , 2012.25, 620-621	0	
27	1106 Evaluation of Acceleration of Multi-Phase-Field Simulation by GPU Computing. <i>The Proceedings of the Computational Mechanics Conference</i> , 2012 , 2012.25, 58-59	0	
26	Multi-phase-field Simulations of Dynamic Recrystallization during Transient Deformation. <i>ISIJ International</i> , 2011 , 51, 1717-1723	1.7	17
25	Fabrication of Ordered Gold Nano Dot Array by Nano Plastic Forming and Self-Assembly. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2011 , 77, 1143-1153		9
24	GPU-accelerated phase-field simulation of dendritic solidification in a binary alloy. <i>Journal of Crystal Growth</i> , 2011 , 318, 40-45	1.6	67
23	Rapid fabrication of an ordered nano-dot array by the combination of nano-plastic forming and annealing methods. <i>Journal of Micromechanics and Microengineering</i> , 2011 , 21, 125017	2	28
22	Peta-scale phase-field simulation for dendritic solidification on the TSUBAME 2.0 supercomputer 2011 ,		88
21	3279 Development of Metallic Microstructure Control Method by using Nano Plastic Forming. <i>Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21</i> , 2011 , 2011.6, _3279-1_ - _3279-5_		1
20	3397 Finite-Difference-Time-Domain Analysis of Optical Properties of Ordered Nano-Dots Array Fabricated with Nano Plastic Forming. <i>Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21</i> , 2011 , 2011.6, _3397-1_ - _3397-5_		1
19	Multiple-GPU Scalability of Phase-Field Simulation for Dendritic Solidification. <i>Progress in Nuclear Science and Technology</i> , 2011 , 2, 639-642	0.3	6
18	3250 Development of nanostructured foil mold for roller nano imprint process. <i>Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21</i> , 2011 , 2011.6, _3250-1_ - _3250-6 ¹ _		
17	905 Evaluation of Optical Properties of Metal Nano-dots Array by MPF and FDTD Methods. <i>The Proceedings of the Computational Mechanics Conference</i> , 2011 , 2011.24, 294-295	0	
16	Elastoplastic phase-field simulation of martensitic transformation with plastic deformation in polycrystal. <i>International Journal of Mechanical Sciences</i> , 2010 , 52, 245-250	5.5	57
15	Multi-phase-field simulations for dynamic recrystallization. <i>Computational Materials Science</i> , 2009 , 45, 881-888	3.2	114
14	Development of Crystal Plasticity Phase-Field Model and Simulation of Microstructure Evolution with Plastic Deformation. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2009 , 75, 1794-1803		
13	A23 Fundamental Study for Development of Metallic Functional Material by Nano/micro Plastic Forming(M4 processes and micro-manufacturing for science). <i>Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21</i> , 2009 , 2009.5, 301-304		
12	1107 Three-dimensional Simulation of Martensitic Transformation by Phase-Field Method. <i>The Proceedings of the Computational Mechanics Conference</i> , 2009 , 2009.22, 51-52	0	

11	1106 Multi-Phase-Field Simulation of Diffusional Transformation in Steel. <i>The Proceedings of the Computational Mechanics Conference, 2009</i> , 2009.22, 49-50		0
10	A21 Crystal Plasticity Finite Element Simulation of Nano/Micro Plastic Forming for Metallic Material(M4 processes and micro-manufacturing for science). <i>Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2009</i> , 2009.5, 293-296		
9	Multi-Phase-Field Model to Simulate Microstructure Evolutions during Dynamic Recrystallization. <i>Materials Transactions, 2008</i> , 49, 2559-2565	1.3	78
8	Multi-phase-field modeling of diffusive solid phase transition in carbon steel during continuous cooling transformation. <i>Journal of Crystal Growth, 2008</i> , 310, 1337-1342	1.6	17
7	Coupled simulation of microstructural formation and deformation behavior of ferritepearlite steel by phase-field method and homogenization method. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008</i> , 480, 244-252	5.3	26
6	Elastoplastic phase-field simulation of self- and plastic accommodations in martensitic transformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008</i> , 491, 378-384	5.3	99
5	Phase-field model during static recrystallization based on crystal-plasticity theory. <i>Journal of Computer-Aided Materials Design, 2007</i> , 14, 75-84		62
4	Phase-field Analysis of Austenite-to-ferrite Transformation and Carbon Diffusion in Fe-C Alloy. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2007</i> , 73, 209-215		
3	Phase-Field Simulation of Austenite to Ferrite Transformation and Widmanstätten Ferrite Formation in Fe-C Alloy. <i>Materials Transactions, 2006</i> , 47, 2725-2731	1.3	45
2	Phase-field Simulation of Widmanstaetten Ferrite Formation in Fe-C Alloy. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2006</i> , 72, 1676-1683		1
1	Grain Growth in a System Containing Finely Dispersed Mobile Second-Phase Particles: a GPU-Accelerated Multi-Phase-Field Study29-34		0