

Akinori Yamanaka

List of Publications by Year in descending order

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137
papers

1,684
citations

361045

20
h-index

315357

38
g-index

142
all docs

142
docs citations

142
times ranked

1162
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-phase-field simulations for dynamic recrystallization. Computational Materials Science, 2009, 45, 881-888.	1.4	128
2	Peta-scale phase-field simulation for dendritic solidification on the TSUBAME 2.0 supercomputer. , 2011, , .		117
3	Elastoplastic phase-field simulation of self- and plastic accommodations in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll">\langle \text{mml:mtext}>\text{Cubic}</\text{mml:mtext}>\langle \text{mml:mo}>\hat{\text{a}}\text{f}'</\text{mml:mo}>\langle \text{mml:mtext}>\text{tetragonal}</\text{mml:mtext}>\langle \text{mml:math}>\langle \text{mml:mtext}>\text{martensitic transformation. Materials Science \& Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 491, 378-384.$		
4	Unexpected selection of growing dendrites by very-large-scale phase-field simulation. Journal of Crystal Growth, 2013, 382, 21-25.	0.7	109
5	Multi-Phase-Field Model to Simulate Microstructure Evolutions during Dynamic Recrystallization. Materials Transactions, 2008, 49, 2559-2565.	0.4	91
6	GPU-accelerated phase-field simulation of dendritic solidification in a binary alloy. Journal of Crystal Growth, 2011, 318, 40-45.	0.7	79
7	Multiscale modeling of hot-working with dynamic recrystallization by coupling microstructure evolution and macroscopic mechanical behavior. International Journal of Plasticity, 2014, 52, 105-116.	4.1	75
8	Elastoplastic phase-field simulation of martensitic transformation with plastic deformation in polycrystal. International Journal of Mechanical Sciences, 2010, 52, 245-250.	3.6	74
9	Phase-field model during static recrystallization based on crystal-plasticity theory. Journal of Computer-Aided Materials Design, 2007, 14, 75-84.	0.7	69
10	Grain boundary mobilities in polycrystals. Acta Materialia, 2020, 191, 211-220.	3.8	61
11	Phase field crystal simulation of grain boundary motion, grain rotation and dislocation reactions in a BCC bicrystal. Acta Materialia, 2017, 133, 160-171.	3.8	58
12	Phase-Field Simulation of Austenite to Ferrite Transformation and Widmanstätten Ferrite Formation in Fe-C Alloy. Materials Transactions, 2006, 47, 2725-2731.	0.4	49
13	Deep neural network approach to estimate biaxial stress-strain curves of sheet metals. Materials and Design, 2020, 195, 108970.	3.3	45
14	Simulation of Austenite-to-ferrite Transformation in Deformed Austenite by Crystal Plasticity Finite Element Method and Multi-phase-field Method. ISIJ International, 2012, 52, 659-668.	0.6	39
15	Data assimilation for massive autonomous systems based on a second-order adjoint method. Physical Review E, 2016, 94, 043307.	0.8	34
16	Ensemble Kalman filter-based data assimilation for three-dimensional multi-phase-field model: Estimation of anisotropic grain boundary properties. Materials and Design, 2019, 165, 107577.	3.3	33
17	Rapid fabrication of an ordered nano-dot array by the combination of nano-plastic forming and annealing methods. Journal of Micromechanics and Microengineering, 2011, 21, 125017.	1.5	30
18	Multi-phase-field simulation of cyclic phase transformation in Fe-C-Mn and Fe-C-Mn-Si alloys. Computational Materials Science, 2017, 136, 67-75.	1.4	29

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19	Data assimilation for phase-field models based on the ensemble Kalman filter. <i>Computational Materials Science</i> , 2018, 141, 141-152.	1.4	29
20	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
21	Phase-field modeling for pH-dependent general and pitting corrosion of iron. <i>Scientific Reports</i> , 2018, 8, 12777.	1.6	27
22	Multi-phase-field Simulations of Dynamic Recrystallization during Transient Deformation. <i>ISIJ International</i> , 2011, 51, 1717-1723.	0.6	21
23	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
24	Fabrication of three-dimensional ordered nanodot array structures by a thermal dewetting method. <i>Nanotechnology</i> , 2012, 23, 485303.	1.3	18
25	Control of β lamella precipitation in Ti-39 at.% Al single crystals by nanogroove-induced dislocation bands. <i>Acta Materialia</i> , 2015, 96, 352-365.	3.8	18
26	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.	0.1	14
27	Voxel coarsening approach on image-based finite element modeling of representative volume element. <i>International Journal of Mechanical Sciences</i> , 2019, 150, 314-321.	3.6	14
28	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
29	Estimation of Texture-Dependent Stress-Strain Curve and σ -Value of Aluminum Alloy Sheet Using Deep Learning. <i>Materials Transactions</i> , 2020, 61, 2276-2283.	0.4	13
30	Development of Microstructure Simulation System in SIP-Materials Integration Projects. <i>Materials Transactions</i> , 2020, 61, 2047-2051.	0.4	13
31	Quantitative three-dimensional phase-field modeling of dendritic solidification coupled with local ensemble transform Kalman filter. <i>Computational Materials Science</i> , 2021, 190, 110296.	1.4	12
32	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
33	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.	0.8	11
34	Image features of a splashing drop on a solid surface extracted using a feedforward neural network. <i>Physics of Fluids</i> , 2022, 34, .	1.6	11
35	Bayesian texture optimization using deep neural network-based numerical material test. <i>International Journal of Mechanical Sciences</i> , 2022, 223, 107285.	3.6	11
36	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.	0.2	10

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37	Fabrication of Gold Nanodot Array on Plastic Films for Bio-sensing Applications. <i>Procedia CIRP</i> , 2013, 5, 47-52.	1.0	10
38	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.	0.1	10
39	Phase-Field Modeling for Dynamic Recrystallization. <i>Advanced Structured Materials</i> , 2015, , 441-459.	0.3	10
40	Effects of process conditions on nano-dot array formation by thermal dewetting. <i>Journal of Manufacturing Processes</i> , 2012, 14, 478-486.	2.8	9
41	Multiple-GPU Scalability of Phase-Field Simulation for Dendritic Solidification. <i>Progress in Nuclear Science and Technology</i> , 2011, 2, 639-642.	0.3	9
42	Nanoplastic deformation on Ti-39 at.% Al single crystals for manipulation of every single γ lamella. <i>Acta Materialia</i> , 2014, 76, 331-341.	3.8	8
43	Multi-phase-field modelling of electromigration-induced void migration in interconnect lines having bamboo structures. <i>Computational Materials Science</i> , 2020, 184, 109848.	1.4	8
44	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.	1.2	7
45	Effects of Morphology of Nanodots on Localized Surface Plasmon Resonance Property. <i>International Journal of Automation Technology</i> , 2014, 8, 74-82.	0.5	7
46	High Throughput Method to Fabricate Ordered Nano Dot Array on Various Plastic Films. <i>Key Engineering Materials</i> , 0, 523-524, 633-638.	0.4	6
47	Analysis of γ 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.	0.7	6
48	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.	0.8	6
49	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.	0.9	6
50	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</i> , 2013, 7, 16-23.	0.5	6
51	Optical Properties of Multilayer Ordered Gold Nanodot Array Fabricated by a Thermal Dewetting Method. <i>Procedia CIRP</i> , 2013, 5, 42-46.	1.0	5
52	Texture evolution in single crystal iron static recrystallization through in-situ EBSD observation. <i>Procedia Manufacturing</i> , 2018, 15, 1565-1572.	1.9	5
53	Phase-Field Simulation of γ Growth Stagnation During γ Transformation in Fe-X-Y and Fe-C-Mn Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 5023-5034.	1.1	5
54	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.	0.6	4

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55	Regularly-formed three-dimensional gold nanodot array with controllable optical properties. Journal of Micromechanics and Microengineering, 2014, 24, 045011.	1.5	4
56	Prediction of 3D Microstructure and Plastic Deformation Behavior in Dual-Phase Steel Using Multi-Phase Field and Crystal Plasticity FFT Methods. Key Engineering Materials, 2015, 651-653, 570-574.	0.4	4
57	BOXVIA: Bayesian optimization executable and visualizable application. SoftwareX, 2022, 18, 101019.	1.2	4
58	Efficient estimation of material parameters using DMC-BO: Application to phase-field simulation of solid-state sintering. Materials Today Communications, 2022, 30, 103089.	0.9	3
59	Numerical biaxial tensile test for sheet metal forming simulation of aluminium alloy sheets based on the homogenized crystal plasticity finite element method. Journal of Physics: Conference Series, 2016, 734, 032005.	0.3	2
60	Influence of hardening functions on earing prediction in cup drawing of AA3104 aluminum alloy sheet. Journal of Physics: Conference Series, 2018, 1063, 012114.	0.3	2
61	Prediction of Static Recrystallization Nucleation Sites in Tensile Deformed Single Crystal Pure Iron through a Combination of In-Situ EBSD and CP-FEM. Metals, 2018, 8, 858.	1.0	2
62	Molten metal flow coupling non-equilibrium phase-field model simulation using thermodynamics data estimated by machine learning for solidification microstructure evolution. The Proceedings of the Computational Mechanics Conference, 2018, 2018.31, 066.	0.0	2
63	Phase-field Simulation of Widmanstaetten Ferrite Formation in Fe-C Alloy. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2006, 72, 1676-1683.	0.2	1
64	Prediction of deformed- and recrystallized microstructures in metallic materials by crystal plasticity analysis and multi-phase-field method. Keikin-zoku/Journal of Japan Institute of Light Metals, 2015, 65, 542-548.	0.1	1
65	Numerical Biaxial Tensile Test of Aluminum Alloy Sheets Using Crystal Plasticity Model Implemented in Commercial FEM Software. Key Engineering Materials, 0, 725, 255-260.	0.4	1
66	3279 Development of Metallic Microstructure Control Method by using Nano Plastic Forming. Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2011, 2011.6, _3279-1_-_3279-5_.	0.0	1
67	3397 Finite-Difference-Time-Domain Analysis of Optical Properties of Ordered Nano-Dots Array Fabricated with Nano Plastic Forming. Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2011, 2011.6, _3397-1_-_3397-5_.	0.0	1
68	3250 Development of nanostructured foil mold for roller nano imprint process. Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2011, 2011.6, _3250-1_-_3250-6_.	0.0	1
69	Grain Growth in a System Containing Finely Dispersed Mobile Second-Phase Particles: a GPU-Accelerated Multi-Phase-Field Study. , 0, , 29-34.		1
70	Estimation of Texture-dependent Stress-strain Curve and σ - ϵ -value of Aluminum Alloy Sheet Using Deep Learning. Journal of the Japan Society for Technology of Plasticity, 2020, 61, 48-55.	0.0	1
71	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
72	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

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73	Fundamental Study on Microstructure Control by Combination of Nano Plastic Forming and Annealing. , 2011, , .		0
74	A New Process to Fabricate Three Dimensional Ordered Nano Dot Array Structures by Nano Plastic Forming and Dewetting. Key Engineering Materials, 0, 523-524, 627-632.	0.4	0
75	MPF-FDTD Simulations of Fabrication and Optical Analysis of Ordered Gold Nano-Dots Array. Key Engineering Materials, 2012, 523-524, 621-626.	0.4	0
76	Efficient Fabrication of Ordered Metal Nanodot Array Using Nanoimprint Method with a TiN Thin-Film Mold and Annealing Method. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2012, 78, 3995-4004.	0.2	0
77	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
78	Optical property of metallic nanodot arrays fabricated by combination of nano plastic forming and thermal dewetting method. Transactions of the JSME (in Japanese), 2014, 80, MN0272-MN0272.	0.1	0
79	Development of Microstructure-Based Multiscale Simulation Process for Hot Rolling of Duplex Stainless Steel. Minerals, Metals and Materials Series, 2017, , 345-352.	0.3	0
80	Numerical Biaxial Tensile and Tension-Compression Tests of Aluminum Alloy Sheet Using Crystal Plasticity Finite Element Method. Materials Science Forum, 2018, 920, 187-192.	0.3	0
81	Work hardening during alternating load directions of 316L SS. Procedia Manufacturing, 2018, 15, 1777-1784.	1.9	0
82	Microstructure-based multiscale approach to obtain mechanical property of duplex stainless steel according to ICME concept. Journal of Physics: Conference Series, 2018, 1063, 012188.	0.3	0
83	A23 Fundamental Study for Development of Metallic Functional Material by Nano/micro Plastic Forming(M4 processes and micro-manufacturing for science). Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2009, 2009.5, 301-304.	0.0	0
84	1107 Three-dimensional Simulation of Martensitic Transformation by Phase-Field Method. The Proceedings of the Computational Mechanics Conference, 2009, 2009.22, 51-52.	0.0	0
85	1106 Multi-Phase-Field Simulation of Diffusional Transformation in Steel. The Proceedings of the Computational Mechanics Conference, 2009, 2009.22, 49-50.	0.0	0
86	A21 Crystal Plasticity Finite Element Simulation of Nano/Micro Plastic Forming for Metallic Material(M4 processes and micro-manufacturing for science). Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2009, 2009.5, 293-296.	0.0	0
87	905 Evaluation of Optical Properties of Metal Nano-dots Array by MPF and FDTD Methods. The Proceedings of the Computational Mechanics Conference, 2011, 2011.24, 294-295.	0.0	0
88	1606 MPF-FDTD Modeling of Gold Nano-dots Array Formation and Optical Response due to LSPR. The Proceedings of the Computational Mechanics Conference, 2012, 2012.25, 620-621.	0.0	0
89	1106 Evaluation of Acceleration of Multi-Phase-Field Simulation by GPU Computing. The Proceedings of the Computational Mechanics Conference, 2012, 2012.25, 58-59.	0.0	0
90	1406 Evaluation of Microstructural Morphology Dependent Deformation Behavior of Dual-Phase Steel using Crystal Plasticity Finite Element and Multi-Phase-Field Methods. The Proceedings of the Computational Mechanics Conference, 2013, 2013.26, _1406-1_-_1406-2_.	0.0	0

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91	805 Large-scale Multi-Phase-Field Simulation of Grain Growth in Polycrystals : Implementation on TSUBAME 2.0 GPU Supercomputer. The Proceedings of the Computational Mechanics Conference, 2013, 2013.26, _805-1_-_805-3_.	0.0	0
92	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
93	1604 Phase-Field Microelasticity Analysis of Stress Field Evolution in Grain Growth. The Proceedings of the Computational Mechanics Conference, 2013, 2013.26, _1604-1_-_1604-2_.	0.0	0
94	Simulation of Austenite-to-ferrite Transformation in Multi-component Steel using Non-equilibrium Multi-Phase-Field Model. The Proceedings of the Computational Mechanics Conference, 2014, 2014.27, 571-572.	0.0	0
95	20105 Multi-Phase-Field Modeling of Dynamic Deformation-induced Ferrite Transformation. The Proceedings of Conference of Kanto Branch, 2014, 2014.20, _20105-1_-_20105-2_.	0.0	0
96	Crystal plasticity finite element analysis of plastic deformation behavior of Zirconium. The Proceedings of the Computational Mechanics Conference, 2014, 2014.27, 5-6.	0.0	0
97	Homogenized Crystal Plasticity Finite Element Analysis and its Experimental Verification of Biaxial Deformation of Aluminum Alloy Sheet. The Proceedings of the Computational Mechanics Conference, 2014, 2014.27, 499-500.	0.0	0
98	Multi-Phase-Field Modelling of Deformation-induced Ferrite Transformation. The Proceedings of the Computational Mechanics Conference, 2014, 2014.27, 573-574.	0.0	0
99	027 Three-dimensional Multi-phase-field Simulation of Polycrystalline Grain Growth with Mobile Particle Pinning. The Proceedings of the Computational Mechanics Conference, 2015, 2015.28, _027-1_-_027-2_.	0.0	0
100	181 Three-dimensional Simulation of Deformed Austenite-to-ferrite Transformation in Steel using Crystal Plasticity FFT method and Multi-Phase-Field Method. The Proceedings of the Computational Mechanics Conference, 2015, 2015.28, _181-1_-_181-2_.	0.0	0
101	134 Data assimilation for massive simulation models: in the case of the phase field model. The Proceedings of the Computational Mechanics Conference, 2015, 2015.28, _134-1_-_134-2_.	0.0	0
102	207 Parallelization of Numerical Method for two-dimensional Non-equilibrium Multi-Phase Field Model of Quinary System. The Proceedings of the Computational Mechanics Conference, 2015, 2015.28, _207-1_-_207-2_.	0.0	0
103	139 Two-dimensional Simulation of Austenite-to-ferrite Transformation in Fe-C-Mn alloy using Non-equilibrium Multi-Phase-Field Model. The Proceedings of the Computational Mechanics Conference, 2015, 2015.28, _139-1_-_139-2_.	0.0	0
104	289 Growth of a crack in the Maxwell viscoelastic body containing pressurized pore. The Proceedings of the Computational Mechanics Conference, 2015, 2015.28, _289-1_-_289-2_.	0.0	0
105	099 Implementation of Ensemble Kalman Filter to Phase-field Simulation. The Proceedings of the Computational Mechanics Conference, 2015, 2015.28, _099-1_-_099-2_.	0.0	0
106	Phase-field crystal simulation of grain boundary migration and grain rotation. The Proceedings of the Computational Mechanics Conference, 2016, 2016.29, 4_261.	0.0	0
107	Data Assimilation of 2D Phase-field Simulation using Ensemble Kalman Filter. The Proceedings of the Computational Mechanics Conference, 2016, 2016.29, 4_273.	0.0	0
108	Numerical biaxial tensile test and forming simulation by crystal plasticity finite element method. The Proceedings of the Computational Mechanics Conference, 2016, 2016.29, 4_238.	0.0	0

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109	Development of MPI parallel program of multi-phase-field model coupled with CALPHAD database for duplex-phase solidification in quinary system of stainless steel. The Proceedings of the Computational Mechanics Conference, 2016, 2016.29, 073.	0.0	0
110	Nano simulation study of mechanical property parameter for microstructure-based multiscale simulation. The Proceedings of the Computational Mechanics Conference, 2016, 2016.29, 4_126.	0.0	0
111	Grain Growth in a System Containing Finely Dispersed Mobile Second-Phase Particles: A GPU-Accelerated Multi-Phase-Field Study. , 2016, , 29-34.		0
112	Multi-Phase-Field Modeling of Austenite-to-Ferrite Transformation in Fe-C-Mn-Si Alloy. The Proceedings of the Computational Mechanics Conference, 2016, 2016.29, 087.	0.0	0
113	A study on crystalline microstructure control for development of functional surfaces. Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2017, 2017.9, 052.	0.0	0
114	Phase-field crystal and molecular dynamics simulations of grain boundary migration and dislocation behavior. The Proceedings of the Computational Mechanics Conference, 2017, 2017.30, 163.	0.0	0
115	Application of Ensemble Kalman Smoother to Phase-field Method. The Proceedings of the Computational Mechanics Conference, 2017, 2017.30, 099.	0.0	0
116	Generalized evaluation method for anisotropy of elastic tensor obtained by homogenization method and its application to transverse isotropic material property. The Proceedings of the Computational Mechanics Conference, 2017, 2017.30, 068.	0.0	0
117	Nano Simulation Study of Mechanical Property Parameter for Microstructure-Based Multiscale Simulation. Minerals, Metals and Materials Series, 2017, , 327-332.	0.3	0
118	Search for elastic constants associated with machine learning. The Proceedings of the Computational Mechanics Conference, 2017, 2017.30, 246.	0.0	0
119	Analysis of stress evolution in LiCoO_2 positive electrode of lithium-ion battery by phase-field method. The Proceedings of the Computational Mechanics Conference, 2017, 2017.30, 106.	0.0	0
120	Data assimilation of Elastoplastic Finite Element Analysis Based on the Ensemble Kalman Filter. The Proceedings of the Computational Mechanics Conference, 2018, 2018.31, 088.	0.0	0
121	Evaluation of discharge performance of LiCoO_2 -type lithium ion battery using phase field method. The Proceedings of the Computational Mechanics Conference, 2018, 2018.31, 089.	0.0	0
122	Polycrystalline Grain Growth Simulation using Phase-field Crystal Method. The Proceedings of the Computational Mechanics Conference, 2018, 2018.31, 067.	0.0	0
123	Development of three-dimensional simulation method of the void migration caused by electromigration in the interconnect line with bamboo structure. The Proceedings of the Computational Mechanics Conference, 2018, 2018.31, 091.	0.0	0
124	Simulation of Corrosion in Iron using Phase-field Method. The Proceedings of Conference of Kanto Branch, 2018, 2018.24, GS0118.	0.0	0
125	Data Assimilation of Static Recrystallization Simulation using Multi-phase-field Method. The Proceedings of the Computational Mechanics Conference, 2018, 2018.31, 087.	0.0	0
126	Three-dimensional phase-field simulation of microstructure formation during solid-state sintering in polycrystalline superconducting materials. The Proceedings of the Computational Mechanics Conference, 2019, 2019.32, 034.	0.0	0

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127	Conditional Generative Adversarial Networks used to Design Microstructures in Aluminum Alloys. The Proceedings of the Computational Mechanics Conference, 2019, 2019.32, 061.	0.0	0
128	Rapid estimation of deformation behavior of aluminum alloy sheet using deep learning. The Proceedings of the Computational Mechanics Conference, 2019, 2019.32, 055.	0.0	0
129	Evaluation of Estimation Accuracy of Sequential Data Assimilation Methods for Phase-field Models. The Proceedings of the Computational Mechanics Conference, 2019, 2019.32, 056.	0.0	0
130	Phase-field simulation of steel microstructure changes during welding process coupled with CCT diagram. The Proceedings of the Computational Mechanics Conference, 2019, 2019.32, 143.	0.0	0
131	Application of the data assimilation method incorporating conservation laws and constraints to the phase-field method. The Proceedings of the Computational Mechanics Conference, 2019, 2019.32, 115.	0.0	0
132	Non-equilibrium Multi-Phase-Field Simulation of Growth of Intermetallic Compounds in Sn-Cu Alloy. The Proceedings of the Computational Mechanics Conference, 2019, 2019.32, 247.	0.0	0
133	Data Assimilation for Simulation of Alloy Solidification Using Local Ensemble Transform Kalman Filter. The Proceedings of the Computational Mechanics Conference, 2019, 2019.32, 060.	0.0	0
134	Progress in phase-field method integrated with data assimilation. Keikinzoku/Journal of Japan Institute of Light Metals, 2019, 69, 591-601.	0.1	0
135	10.1063/5.0077050.2. , 2022, , .		0
136	Phase-Field Simulation of Sn-Cu Alloys Containing Intermetallic Compounds. The Proceedings of the Computational Mechanics Conference, 2021, 2021.34, 122.	0.0	0
137	Features of a Splashing Drop on a Solid Surface and the Temporal Evolution extracted through Image-Sequence Classification using an Interpretable Feedforward Neural Network. , 2022, , .		0