Yoshihiro Tomita

List of Publications by Year
in descending order

199	2,446	201674	206112
papers	citations	27 h-index	48 g-index

199	199	199	1632
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Constitutive modeling of trip steel and its application to the improvement of mechanical properties. International Journal of Mechanical Sciences, 1995, 37, 1295-1305.	6.7	208
2	Investigation on deformation mode dependence of strain-induced martensitic transformation in trip steels and modelling of transformation kinetics. International Journal of Mechanical Sciences, 1998, 40, 173-182.	6.7	198
3	Trabecular Surface Remodeling Simulation for Cancellous Bone Using Microstructural Voxel Finite Element Models. Journal of Biomechanical Engineering, 2001, 123, 403-409.	1.3	147
4	Functional adaptation of cancellous bone in human proximal femur predicted by trabecular surface remodeling simulation toward uniform stress state. Journal of Biomechanics, 2002, 35, 1541-1551.	2.1	126
5	Molecular dynamics simulation of deformation behavior in amorphous polymer: nucleation of chain entanglements and network structure under uniaxial tension. International Journal of Mechanical Sciences, 2003, 45, 1863-1876.	6.7	98
6	Multi-Phase-Field Model to Simulate Microstructure Evolutions during Dynamic Recrystallization. Materials Transactions, 2008, 49, 2559-2565.	1.2	91
7	Computational prediction of deformation behavior of TRIP steels under cyclic loading. International Journal of Mechanical Sciences, 2001, 43, 2017-2034.	6.7	90
8	Simulations of Plastic Instabilities in Solid Mechanics. Applied Mechanics Reviews, 1994, 47, 171-205.	10.1	88
9	Quantitative evaluation of threshold fiber strain that induces reorganization of cytoskeletal actin fiber structure in osteoblastic cells. Journal of Biomechanics, 2005, 38, 1895-1901.	2.1	75
10	Multiscale modeling of hot-working with dynamic recrystallization by coupling microstructure evolution and macroscopic mechanical behavior. International Journal of Plasticity, 2014, 52, 105-116.	8.8	75
11	Elastoplastic phase-field simulation of martensitic transformation with plastic deformation in polycrystal. International Journal of Mechanical Sciences, 2010, 52, 245-250.	6.7	74
12	Development of numerical scheme for phase field crystal deformation simulation. Computational Materials Science, 2009, 44, 1192-1197.	3.0	69
13	Phase-field simulation during directional solidification of a binary alloy using adaptive finite element method. Journal of Crystal Growth, 2005, 283, 263-278.	1.5	67
14	Molecular dynamics simulation of dislocation nucleation and motion at Î³/Î³â€² interface in Ni-based superalloy. International Journal of Mechanical Sciences, 2002, 44, 1845-1860.	6.7	58
15	Simulation of Trabecular Surface Remodeling based on Local Stress Nonuniformity.. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 1997, 40, 782-792.	0.3	55
16	Phase-Field Simulation of Austenite to Ferrite Transformation and Widmanstätten Ferrite Formation in Fe-C Alloy. Materials Transactions, 2006, 47, 2725-2731.	1.2	49
17	A micromechanical approach of nonlocal modeling for media with periodic microstructures. Mechanics Research Communications, 2008, 35, 126-133.	1.8	45
18	Measurement of local strain on cell membrane at initiation point of calcium signaling response to applied mechanical stimulus in osteoblastic cells. Journal of Biomechanics, 2007, 40, 1246-1255.	2.1	43

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19	Constitutive modelling of deformation behavior of glassy polymers and applications. International Journal of Mechanical Sciences, 2000, 42, 1455-1469.	6.7	40
20	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.	1.4	39
21	Plane strain tension of thermo-elasto-viscoplastic blocks. International Journal of Mechanical Sciences, 1990, 32, 613-622.	6.7	37
22	Effective properties of cosserat composites with periodic microstructure. Mechanics Research Communications, 2001, 28, 265-270.	1.8	33
23	Computational characterization of micro- to mesoscopic deformation behavior of semicrystalline polymers. International Journal of Mechanical Sciences, 2005, 47, 687-700.	6.7	31
24	Free Energy Problem for the Simulations of the Growth of Fe₂B Phase Using Phase-Field Method. Materials Transactions, 2008, 49, 2625-2631.	1.2	31
25	Two-dimensional phase-field simulation of self-assembled quantum dot formation. Journal of Crystal Growth, 2006, 287, 495-499.	1.5	28
26	Numerical evaluation of micro- to macroscopic mechanical behavior of carbon-black-filled rubber. International Journal of Mechanical Sciences, 2006, 48, 108-116.	6.7	28
27	Effects of a Fixation Screw on Trabecular Structural Changes in a Vertebral Body Predicted by Remodeling Simulation. Annals of Biomedical Engineering, 2003, 31, 733-740.	2.5	27
28	Estimation of deformation behavior of TRIP steelsÂâ€” smooth/ringed-notched specimens under monotonic and cyclic loading. International Journal of Plasticity, 2000, 16, 769-789.	8.8	23
29	Computational simulation of three-dimensional neck propagation in polymeric specimens under tension and hybrid identification of constitutive equation. International Journal of Mechanical Sciences, 1997, 39, 913-923.	6.7	22
30	Phase-field study of interface energy effect on quantum dot morphology. Journal of Crystal Growth, 2008, 310, 2248-2253.	1.5	22
31	Characterization of micro- to macroscopic response of polymers containing voids under macroscopically uniform deformation. International Journal of Solids and Structures, 2002, 39, 3409-3428.	2.7	21
32	Multi-phase-field Simulations of Dynamic Recrystallization during Transient Deformation. ISIJ International, 2011, 51, 1717-1723.	1.4	21
33	Nanoindentation on crystal/amorphous polyethylene: Molecular dynamics study. Computational Materials Science, 2006, 38, 136-143.	3.0	20
34	Local Disassembly of Actin Stress Fibers Induced by Selected Release of Intracellular Tension in Osteoblastic Cell. Journal of Biomechanical Science and Engineering, 2006, 1, 204-214.	0.3	20
35	Characterization of micro- to macroscopic deformation behavior of amorphous polymer with heterogeneous distribution of microstructures. International Journal of Mechanical Sciences, 2003, 45, 1703-1716.	6.7	17
36	Neck and bulge propagation in polymeric cylinders under internal pressure. International Journal of Mechanical Sciences, 1990, 32, 335-343.	6.7	16

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37	The Effects of Structure Orientation on the Growth of Fe₂B Boride by Multi-Phase-Field Simulation. Materials Transactions, 2010, 51, 62-67.	1.2	16
38	Effect of Size-Dependent Cavitation on Micro- to Macroscopic Mechanical Behavior of Rubber-Blended Polymer. Journal of Engineering Materials and Technology, Transactions of the ASME, 2008, 130, .	1.4	15
39	Deformation behavior of silica-filled rubber with coupling agents under monotonic and cyclic straining. International Journal of Mechanical Sciences, 2014, 86, 7-17.	6.7	14
40	On the bifurcation and post-bifurcation behaviour of thick circular elastic-plastic tubes under lateral pressure. Computer Methods in Applied Mechanics and Engineering, 1982, 35, 207-219.	6.6	13
41	Computational Simulation of Characteristic Length Dependent Deformation Behavior of Polycrystalline Metals.. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2003, 69, 523-529.	0.2	13
42	Simultaneous observation of calcium signaling response and membrane deformation due to localized mechanical stimulus in single osteoblast-like cells. Journal of the Mechanical Behavior of Biomedical Materials, 2008, 1, 43-50.	3.1	13
43	Three-Dimensional Lattice Continuum Model of Cancellous Bone for Structural and Remodeling Simulation.. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 1999, 42, 470-480.	0.3	12
44	Micro- to macroscopic responses of a glass particle-blended polymer in the presence of an interphase layer. International Journal of Mechanical Sciences, 2006, 48, 1186-1195.	6.7	12
45	Irreversible Deformation of Carbon Nanotubes under Bending. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1999, 63, 1262-1268.	0.4	11
46	Modeling and estimation of deformation behavior of particle-reinforced metalâ€“matrix composite. International Journal of Mechanical Sciences, 2000, 42, 2249-2260.	6.7	10
47	Phase-Field Modeling for Dynamic Recrystallization. Advanced Structured Materials, 2015, , 441-459.	0.5	10
48	Computational Characterization of Micro- to Macroscopic Mechanical Behavior and Damage of Polymers Containing Second-Phase Particles. International Journal of Damage Mechanics, 2002, 11, 129-149.	4.2	9
49	Computational Evaluation of Elasto-Viscoplastic Deformation and Strength of Rubber Blended Semi-crystalline Polymer. International Journal of Damage Mechanics, 2010, 19, 361-374.	4.2	9
50	Bounding approach to the bifurcation point of annular plates with nonassociated flow law subjected to uniform tension at their outer edges. International Journal of Plasticity, 1988, 4, 251-263.	8.8	8
51	AFM Observation of Microscopic Behavior of Glassy Polymer under Macroscopic Tension.. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 1998, 64, 758-764.	0.2	8
52	Evaluation of Deformation Behavior of Carbon-Black-Filled Rubber Under Cyclic Straining. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2005, 71, 1109-1115.	0.2	8
53	A Molecular Dynamics Study on Hysteresis of Amorphous Polymers. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2006, 72, 277-284.	0.2	8
54	å¼¾å¡‘æ€§å§ã²ãšã¿è§£æžã®ãŸã‚ã®æœ‰é™è¦ç´ æ³•. Zairyo/Journal of the Society of Materials Science, Japan, 1980, 29, 663-675.		

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55	Deformation behaviour of a strain rate sensitive block under plane strain tension.. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 1988, 54, 1124-1130.	0.2	7
56	Effect of Microstructure of Carbon Black Filled Rubber on Micro- to Macroscopic Deformation Behavior. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2007, 73, 1120-1127.	0.2	7
57	Strain-Rate-Dependent Deformation Behavior of Carbon-Black-Filled Rubber under Monotonic and Cyclic Straining. Key Engineering Materials, 2007, 340-341, 1017-1024.	0.4	6
58	Phase-Field Simulation during Spherulite Formation of Polymer. Key Engineering Materials, 2007, 345-346, 939-942.	0.4	6
59	Computational Study on Misfit Dislocation in Ni-Based Superalloys by Quasicontinuum Method. Materials Transactions, 2008, 49, 2507-2514.	1.2	6
60	Bifurcation behaviour of bilayered tubes subjected to uniform shrinkage under plane strain condition. International Journal of Solids and Structures, 1992, 29, 2723-2733.	2.7	5
61	Computational Simulation of Deformation Behavior of Glassy Polymer with Cylindrical Inclusions under Tension.. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2000, 66, 454-463.	0.2	5
62	Shear Localization in Thermo-Elasto-Viscoplastic Plane Strain Blocks. , 1992, , 179-188.		5
63	COMPUTATIONAL APPROACHES TO PLASTIC INSTABILITY IN SOLID MECHANICS. , 1993, , 81-98.		4
64	Effect of Actin Filament on Deformation-Induced Ca2+ Response in Osteoblast-Like Cells. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2001, 44, 914-919.	0.3	4
65	Molecular Dynamics Study on the Characteristics of Edge and Screw Dislocations in Gamma/Gamma-Prime Microstructure of Ni-Based Superalloy. Solid Mechanics and Its Applications, 2004, , 59-68.	0.2	4
66	Deformation Behavior in Elasto-Viscoplastic Polymeric Bars under Tension. , 1991, , 524-527.		4
67	Plane strain bifurcation behaviour of thick circular tubes subjected to uniform drawing at external surface.. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 1985, 51, 1872-1878.	0.2	3
68	A Homogenization Method for Analysis of Heterogeneous Cosserat Materials. Key Engineering Materials, 2000, 177-180, 53-58.	0.4	3
69	AFM In-situ Bending Test on Deformation Behavior of Polyethylene Lamellar Structure. Zairyo/Journal of the Society of Materials Science, Japan, 2004, 53, 1359-1364.	0.2	3
70	Phase-Field Simulation of Surface Morphology Evolution during Epitaxial Growth of SiGe/Si System. Key Engineering Materials, 2007, 340-341, 1073-1078.	0.4	3
71	Strain Rate Dependent Constitutive Equation of Rubber and Simulation of Deformation Behavior of Carbon-Black-Filled Rubber. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2007, 73, 558-566.	0.2	3
72	Modeling and Simulation of Viscoelastic Deformation Behavior of Rubber Containing Fillers. Nippon Gomu Kyokaishi, 2009, 82, 464-471.	0.0	3

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73	Cyclic Deformation on Polybutadiene by Molecular Dynamics Simulation : Strain Softening by Negative Bending Stress. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2009, 75, 881-888.	0.2	3
74	Effect of Silica Coupling Agents on Texture Formation and Strengthening for Silica-Filled Rubber. Key Engineering Materials, 2014, 626, 40-45.	0.4	3
75	Modeling and Simulation of Deformation Behavior of Polymer Based on Molecular Chain Network Theory. Zairyo/Journal of the Society of Materials Science, Japan, 2013, 62, 465-471.	0.2	3
76	Modeling and Simulation of Deformation Behavior of Polymer Based on Molecular Chain Network Theory. Zairyo/Journal of the Society of Materials Science, Japan, 2013, 62, 598-604.	0.2	3
77	Numerical Analysis of Necking in a Cylindrical Bar under Uniaxial Tension. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 1982, 48, 141-149.	0.2	2
78	Identification of Constitutive Equation of Polymeric Bars with Instability Propagation.. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 1992, 58, 1859-1863.	0.2	2
79	Shape Optimization Based on Traction Method Using voxel-FEM. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2004, 70, 426-433.	0.2	2
80	Molecular Dynamics Study on Characteristics of Misfit Dislocations in Ni-Based Superalloys. Key Engineering Materials, 2007, 345-346, 951-954.	0.4	2
81	Global vs. Local Instability of Disordered Systems: Local Lattice Instability Analysis on External Loading Conditions. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2007, 73, 66-72.	0.2	2
82	Studies on Micro- to Macroscopic Mechanical Behavior of Porous Polymer under Compaction. International Journal of Damage Mechanics, 2010, 19, 271-283.	4.2	2
83	Computational Characterization of Microto Macroscopic Mechanical Behavior and Damage Polymer Containing SecondPhase Particles. International Journal of Forming Processes, 2002, 5, 521-530.	0.3	2
84	921 Finite Element Modeling and Characterization of Silica-Filled Rubber with Complex Microstructure. The Proceedings of the Computational Mechanics Conference, 2012, 2012.25, 666-667.	0.0	2
85	Computational Simulation of Flow Localization Behavior. JSME International Journal Series A-Solid Mechanics and Material Engineering, 1995, 38, 145-154.	0.1	1
86	Computational Evaluation of Micro- to Macroscopic Mechanical Characteristics of Low-Carbon TRIP Steel under Different Conditions. Key Engineering Materials, 2005, 297-300, 1032-1037.	0.4	1
87	Structure and Motion of Misfit Dislocations at Ni/Ni3Al Interface : Molecular Dynamics Study. Zairyo/Journal of the Society of Materials Science, Japan, 2007, 56, 439-444.	0.2	1
88	Micro- to Macroscopic Deformation Behavior of Amorphous Polymer with Slightly Heterogeneous Distribution of Molecular Chains. Solid Mechanics and Its Applications, 2004, , 33-40.	0.2	1
89	LOCAL DEFORMATION BEHAVIOR AROUND RINGED NOTCH IN TRIP STEEL BARS UNDER TENSION. , 1996, , 599-603.		1
90	PS28 Deformation Analysis of Nanocrystalline Metal Using Phase Field Crystal Method. The Proceedings of the Materials and Mechanics Conference, 2008, 2008, _PS28-1_-_PS28-2_.	0.0	1

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91	Phase-Field Simulation of Quantum Dot Formation. Zairyo/Journal of the Society of Materials Science, Japan, 2005, 54, 595-600.	0.2	1
92	FLOW LOCALIZATION OF ELASTO-VISCOPLASTIC TENSION BLOCKS. , 1992, , 197-202.		1
93	Constitutive modelling of deformation behavior of glassy polymers â€" General perspective and applications â€". Metals and Materials International, 1998, 4, 211-218.	0.2	1
94	Different Behavior between Edge and Screw Dislocations at the .GAMMA./.GAMMA.' Interface of Ni-Based Superalloy: A Molecular Dynamics Study. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2004, 70, 690-695.	0.2	0
95	Core-level Interaction between Edge/Screw Dislocation and Misfit Dislocation: A Molecular Dynamics Study. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2007, 73, 1217-1224.	0.2	0
96	612 Dislocation Dynamics Simulation on Stability of High Dense Dislocation Structure Interacting with Coarsening Defects. The Proceedings of the Computational Mechanics Conference, 2007, 2007.20, 711-712.	0.0	0
97	912 Phase-Field Simulation of Dynamic Recrystallization Process. The Proceedings of the Computational Mechanics Conference, 2007, 2007.20, 523-524.	0.0	0
98	121 Investigations of dynamic recrystallization process by multi-phase-field simulations. The Proceedings of the Computational Mechanics Conference, 2008, 2008.21, 399-400.	0.0	0
99	OS0410 Phase-Field-Crystal Method and Its Basic Performance. The Proceedings of the Materials and Mechanics Conference, 2008, 2008, _OS0410-1_-_OS0410-2_.	0.0	0
100	PS39 Multi-Phase-Field Simulation of Pearlite Microstructure Formation. The Proceedings of the Materials and Mechanics Conference, 2008, 2008, _PS39-1_-_PS39-2_.	0.0	0
101	Forty Years with Research and Education on Solid Mechanics. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2009, 75, 1129-1131.	0.2	0
102	Modeling of Micro- to Mesoscopic Deformation Behavior of Semi-Crystalline Polymer Based on Laminar Composite Model. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2011, 77, 902-915.	0.2	0
103	Constitutive equations of rubber based on molecular chain network model and evaluation of deformation behaviors of particle-filled rubbers. Mechanical Engineering Reviews, 2015, 2, 15-00170-15-00170.	4.7	0
104	Constitutive Equations for Rubber under Abrupt Change in Strain Rate Direction. Key Engineering Materials, 2019, 794, 9-18.	0.4	0
105	On the Evaluation Method of Crystal Instability at Finite Temperature by Using Molecular Dynamics. The Proceedings of the Computational Mechanics Conference, 2000, 2000.13, 619-620.	0.0	0
106	Molecular Dynamics Study on Deformation Mechanism at Î³/Î³â€²interface in Ni-based Superalloy. The Proceedings of the JSME Annual Meeting, 2000, 2000.2, 29-30.	0.0	0
107	Evaluation and Simulation for Crack Shape of Lamellar Semiconductor in Bending Stress Field.. Journal of Japan Institute of Electronics Packaging, 2000, 3, 215-223.	0.1	0
108	414 Molecular Dynamics Study on the Stability of an Apex of Cuboidal Î³' Precipitate. The Proceedings of the Computational Mechanics Conference, 2001, 2001.14, 431-432.	0.0	0

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109	402 Lattice Instability Analysis of Silicon Based on ab initio Calculation. The Proceedings of the Computational Mechanics Conference, 2001, 2001.14, 407-408.	0.0	0
110	413 Effect of atomic configuration on dislocation behavior at an edge of cuboidal Î³' precipitate : Molecular Dynamics Study. The Proceedings of the Computational Mechanics Conference, 2001, 2001.14, 429-430.	0.0	0
111	K-0640 Estimation of Strength of DLC Thin Film under Indentation. The Proceedings of the JSME Annual Meeting, 2001, I.01.1, 275-276.	0.0	0
112	K-0112 Molecular Dynamics Simulation on Nucleation of Superdislocation running through Î³' precipitate in Ni-based Superalloy. The Proceedings of the JSME Annual Meeting, 2001, V.01.1, 23-24.	0.0	0
113	112 Simulation Study on Stem Shape Design of a Hip Joint Based on Uniform Surface Stress Criterion. Proceedings of the 1992 Annual Meeting of JSME/MMD, 2001, 2001, 31-32.	0.0	0
114	1A42 Stem Design of Artificial Hip Joint Based on Stress Uniformity at Bone-Stem Interface. Proceedings of the JSME Bioengineering Conference and Seminar, 2001, 2001.12, 27-28.	0.0	0
115	Computational Prediction of Change in Stiffness of Bone-Scaffold Structure in Regeneration Process. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2001, 2001.13, 112-113.	0.0	0
116	A Nonlocal Model of Materials with Periodic Microstructure Based on Asymptotic Homogenization Method. Zairyo/Journal of the Society of Materials Science, Japan, 2001, 50, 82-89.	0.2	0
117	Identification of Elastic-Plastic-Creep Constitutive Equation for Lead-Free Solder Bump Using Shearing Test and Computational Simulation.. Journal of Japan Institute of Electronics Packaging, 2001, 4, 475-482.	0.1	0
118	Evaluation of deformation and forming limit of TRIP steel with microstructure. The Proceedings of the Computational Mechanics Conference, 2002, 2002.15, 109-110.	0.0	0
119	714 ç¬¬ä¸€åŽŸç†è¨ˆç®—ã«ã‚ˆã‚‹ Al å¯¸çµæ™¶ã®ç†æƒ³å¼·åº¦ã®å®‰è§£æž The Proceedings of Conference of Kansai Branch, 2002, 2		0
120	Application of traction method to design of artificial hip joint stem using the voxel based FEM. The Proceedings of the Computational Mechanics Conference, 2002, 2002.15, 37-38.	0.0	0
121	Deformation of Crystalline Polymers Containing Amorphous Phase. The Proceedings of the Computational Mechanics Conference, 2002, 2002.15, 111-112.	0.0	0
122	Molecular dynamics study on the deformation behavior at the crystal/amorphous interface of polymer. The Proceedings of the Computational Mechanics Conference, 2002, 2002.15, 161-162.	0.0	0
123	Stem Shape Design of Artificial Hip Joint Using the Voxel Based FEM. Proceedings of the 1992 Annual Meeting of JSME/MMD, 2002, 2002, 441-442.	0.0	0
124	Constitutive Equation and Computational Prediction of Deformation Behavior of TRIP Steels under Monotonic and Cyclic Loading. Solid Mechanics and Its Applications, 2002, , 9-18.	0.2	0
125	Shape optimization based on traction method using Voxel-FEM. The Proceedings of the JSME Annual Meeting, 2003, 2003.7, 1-2.	0.0	0
126	Modeling of dislocation behavior in Î³/Î³â€²microstructure using Discrete Dislocation Dynamics. The Proceedings of the Computational Mechanics Conference, 2003, 2003.16, 445-446.	0.0	0

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127	Three-dimensional computational simulation of trabecular pattern formation in cancellous bone using reaction-diffusion system. The Proceedings of the JSME Annual Meeting, 2003, 2003.7, 153-154.	0.0	0
128	Micro- to Macroscopic Deformation Behavior of Crystalline Polymers Containing Amorphous Phase. The Proceedings of Conference of Kansai Branch, 2003, 2003.78, _5-31_-_5-32_.	0.0	0
129	Molecular dynamics study on the dislocation in Î³/Î³' microstructure of Ni based superalloy : Effect of lattice misfit between Î³ matrix and Î³' precipitate. Proceedings of the 1992 Annual Meeting of JSME/MMD, 2003, 2003, 491-492.	0.0	0
130	Effect of internal structural size of scaffold on regenerated trabecular structure evaluated by bone regeneration simulation. The Proceedings of the Computational Mechanics Conference, 2003, 2003.16, 315-316.	0.0	0
131	OS7(3)-9(OS07W0402) Elastic Properties of Single Trabeculae Measured by Micro-Three-Point Bending Test. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2003, 2003, 37.	0.0	0
132	Ab initio Molecular Dynamics Study on Lattice Instability of Ni and Ni_3Al. The Proceedings of the Computational Mechanics Conference, 2003, 2003.16, 513-514.	0.0	0
133	Computational Evaluation of Micro- to Macroscopic Deformation Behavior of Amorphous Polymer with Slightly Heterogeneous Distribution of Initial Shear Strength. Solid Mechanics and Its Applications, 2004, , 245-254.	0.2	0
134	Determination of internal structure size of scaffold using a computational simulation for bone regeneration in cancellous bone. The Proceedings of the Computational Mechanics Conference, 2004, 2004.17, 329-330.	0.0	0
135	Influence of Mechanical and Biological Factors on Trabecular Structure Formation in Cancellous Bone Defect. The Proceedings of the JSME Annual Meeting, 2004, 2004.5, 21-22.	0.0	0
136	Evaluation of Axial Strain in Stress Fibers Inducing Cytoskeletal Reorganization in Osteoblastic Cells(Micro- and Nano-biomechanics). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2004, 2004.1, 227-228.	0.0	0
137	Ab initio study on Ni/Ni_3Al single crystals with doping elements. The Proceedings of the JSME Annual Meeting, 2004, 2004.6, 221-222.	0.0	0
138	443 Computational simulation for optimal design of porous scaffold microstructure for cancellous bone regeneration. Proceedings of the JSME Bioengineering Conference and Seminar, 2005, 2004.17, 385-386.	0.0	0
139	1510 Faceted island formation and island morphological change of SiGe/Si system using phase-field method. The Proceedings of the Computational Mechanics Conference, 2005, 2005.18, 869-870.	0.0	0
140	1306 A Molecular Dynamics Simulation of Nanoindentation on Crystal/Amorphous Polyethylene. The Proceedings of the Computational Mechanics Conference, 2005, 2005.18, 673-674.	0.0	0
141	1810 Local Lattice Instability of Amorphous Metals under Tension. The Proceedings of the JSME Annual Meeting, 2005, 2005.6, 217-218.	0.0	0
142	1513 Simulations of recrystallization microstructures using phase-field method and crystal plasticity finite element method. The Proceedings of the Computational Mechanics Conference, 2005, 2005.18, 875-876.	0.0	0
143	A214 Manufacturing of Porous Scaffold for Bone Regeneration using X-ray CT Images. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2005, 2005.16, 115-116.	0.0	0
144	602 Inherent Difference between Nano-Crystal and Amorphous Structure : A Local Lattice Instability Analysis. The Proceedings of Conference of Kansai Branch, 2006, 2006.81, _6-6_.	0.0	0

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145	277 Ab-initio Lattice Instability Analysis on Cu-Zr Icosahedral Cluster. The Proceedings of the Computational Mechanics Conference, 2006, 2006.19, 639-640.	0.0	0
146	207 Phase-field modeling of static recrystallization using crystal plasticity theory. The Proceedings of the Computational Mechanics Conference, 2006, 2006.19, 91-92.	0.0	0
147	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.	0.2	0
148	237 Phase-field simulation of self-formation process of quantum dots. The Proceedings of the Computational Mechanics Conference, 2006, 2006.19, 371-372.	0.0	0
149	254 Phase-field simulations during spherulite formation of crystalline polymer. The Proceedings of the Computational Mechanics Conference, 2006, 2006.19, 403-404.	0.0	0
150	604 Local Lattice Instability Analysis on Amorphous Metals : Effect of Alloy Composition. The Proceedings of Conference of Kansai Branch, 2006, 2006.81, _6-8_.	0.0	0
151	276 Local Lattice Instability Analysis on Nano Polycrystals by Voronoi and Square Division. The Proceedings of the Computational Mechanics Conference, 2006, 2006.19, 637-638.	0.0	0
152	250 Molecular Dynamics Study on Hysteresis of cis, 1-4 polybutadiene. The Proceedings of the Computational Mechanics Conference, 2006, 2006.19, 395-396.	0.0	0
153	208 Crystal Plasticity-Based FE Simulation of Evolving Metallurgical Microstructure accompanied by Fluctuating Internal Stress Field by using Incompatibility Tensor. The Proceedings of the Computational Mechanics Conference, 2006, 2006.19, 93-94.	0.0	0
154	3339 Internal Structure and Local Lattice Instability of Amorphous Metals. The Proceedings of the JSME Annual Meeting, 2006, 2006.1, 507-508.	0.0	0
155	1235 Phase Field Crystal Simulation During Formation and Deformation of Polycrystal. The Proceedings of the JSME Annual Meeting, 2007, 2007.1, 49-50.	0.0	0
156	OS15-2-3 Effect of gamma irradiation on mechanical properties of PA6/PTFE blends. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2007, 2007.6, _OS15-2-3--_OS15-2-3-.	0.0	0
157	638 Local Lattice Instability Analysis on Nano-Polycrystalline and Amorphous Metals under Shear Deformation. The Proceedings of the Materials and Mechanics Conference, 2007, 2007, 500-501.	0.0	0
158	610 Phase-Field Modeling during Dynamic Recrystallization. The Proceedings of Conference of Kansai Branch, 2007, 2007.82, _6-10_.	0.0	0
159	908 Phase-Field Simulation of Microstructure Formation during Martensitic Transformation. The Proceedings of the Computational Mechanics Conference, 2007, 2007.20, 515-516.	0.0	0
160	618 Effect of Trans-Granular Inhomogeneity on Baushinger Behavior of Dual Phase Polycrystalline Aggregates. The Proceedings of the Computational Mechanics Conference, 2007, 2007.20, 723-724.	0.0	0
161	305 Prediction of Microstructural Evolution and Evaluation of Mechanical Behavior of Fe-C Alloy with Phase-Field Method and Homogenization Method. The Proceedings of Conference of Kansai Branch, 2007, 2007.82, _3-5_.	0.0	0
162	1234 Polymer Spherulite Growth Simulation by Phase-Field Method. The Proceedings of the JSME Annual Meeting, 2007, 2007.1, 47-48.	0.0	0

#	Article	IF	Citations
163	816 Reversible compression stress of polybutadiene under cyclic deformation : A molecular dynamics study. The Proceedings of the Computational Mechanics Conference, 2007, 2007.20, 273-274.	0.0	0
164	1233 Phase-Field Study of Interface Energy Effects on Morphology of Self-Formation Quantum Dots. The Proceedings of the JSME Annual Meeting, 2007, 2007.1, 45-46.	0.0	0
165	642 Morphology change in Interfacial Dislocation Network by a Prismatic Dislocation Loop : Discrete Dislocation Dynamics Simulation. The Proceedings of the Materials and Mechanics Conference, 2007, 2007, 508-509.	0.0	0
166	911 Investigations of applicability of KWC phase-field model to recrystallization problem. The Proceedings of the Computational Mechanics Conference, 2007, 2007.20, 521-522.	0.0	0
167	637 Ab initio Lattice Instability Analysis on Transition Metals under [001] Uniaxial Tension. The Proceedings of the Materials and Mechanics Conference, 2007, 2007, 498-499.	0.0	0
168	904 Deformation Analysis of Nanopolycrystalline Metal Using Phase Field Crystal Method. The Proceedings of the Computational Mechanics Conference, 2007, 2007.20, 507-508.	0.0	0
169	807 Local Lattice Instability Analysis on Nano-Polycrystals : Effects of Crystal Grain Shape. The Proceedings of the Computational Mechanics Conference, 2007, 2007.20, 255-256.	0.0	0
170	1236 Predictions of Recrystallization Microstructure Based on Deformation Microstructure Using Phase-field Method. The Proceedings of the JSME Annual Meeting, 2007, 2007.1, 51-52.	0.0	0
171	123 Simulation of Phase Transformation using Elastoplastic Phase-Field Model. The Proceedings of the Computational Mechanics Conference, 2008, 2008.21, 402-403.	0.0	0
172	OS0413 Lattice Instability Map under [001] Uniaxial Tension and Compression : Ab-initio Lattice Instability Analysis. The Proceedings of the Materials and Mechanics Conference, 2008, 2008, _OS0413-1_-_OS0413-2_.	0.0	0
173	PS33 Ab-initio Lattice Instability Analysis on Yttrium Oxide in Fe. The Proceedings of the Materials and Mechanics Conference, 2008, 2008, _PS33-1_-_PS33-2_.	0.0	0
174	137 Field Theoretical Crystalline Plasticity Simulation for Evolution of Inhomogeneous Field Considering Interaction with Dislocation Substructure Scale. The Proceedings of the Computational Mechanics Conference, 2008, 2008.21, 660-661.	0.0	0
175	213 Ab-initio Lattice Instability Analysis on Fe-Y-O alloy. The Proceedings of the Computational Mechanics Conference, 2008, 2008.21, 155-156.	0.0	0
176	230 Indentation and Sratch on Forest Carbon Nanotubes : Molecular Dynamics Study. The Proceedings of the Computational Mechanics Conference, 2008, 2008.21, 444-445.	0.0	0
177	160 Apparent Variation in Elastic Modulus due to Reversible Motion of Dislocations. The Proceedings of the Computational Mechanics Conference, 2008, 2008.21, 706-707.	0.0	0
178	OS0608 Prediction of Mechanical Properties of Steel using Multi-Phase-Field Method and Homogenization Method. The Proceedings of the Materials and Mechanics Conference, 2008, 2008, _OS0608-1_-_OS0608-2_.	0.0	0
179	108 Modeling and simulation of viscoelastic deformation behavior of carbon black filled rubber. The Proceedings of the Computational Mechanics Conference, 2008, 2008.21, 111-112.	0.0	0
180	OS0422 Discrete Dislocation Dynamics Simulation on Formation Process of Interfacial Dislocation Network. The Proceedings of the Materials and Mechanics Conference, 2008, 2008, _OS0422-1_-_OS0422-2_.	0.0	0

#	Article	IF	Citations
181	OS0408 Evaluation of Si/GaAs Interfacial Energy by Molecular Dynamics Method. The Proceedings of the Materials and Mechanics Conference, 2008, 2008, _OS0408-1_-_OS0408-2_.	0.0	0
182	136 Dislocation Dynamics Simulation with Precipitates in High Cr Steels. The Proceedings of the Computational Mechanics Conference, 2008, 2008.21, 658-659.	0.0	0
183	120 Examination of High Accuracy Modeling of Recrystallization Using Phase-Field Method and Crystal Plasticity Theory. The Proceedings of the Computational Mechanics Conference, 2008, 2008.21, 397-398.	0.0	0
184	112 Prediction of Pearlite Microstructure Formation by Multi-Phase-Field Method. The Proceedings of the Computational Mechanics Conference, 2008, 2008.21, 119-120.	0.0	0
185	154 Field-theoretical study to effect of Inhomogeneity on Bauschinger behavior. The Proceedings of the Computational Mechanics Conference, 2008, 2008.21, 694-695.	0.0	0
186	OS0414 Difference in Deformation Mechanism between Monatomic Amorphous Ni and Al : Local Lattice Instability Analysis. The Proceedings of the Materials and Mechanics Conference, 2008, 2008, _OS0414-1_-_OS0414-2_.	0.0	0
187	PS35 Molecular Dynamics Simulation of Indentation and Scratch on Forest Carbon Nanotubes. The Proceedings of the Materials and Mechanics Conference, 2008, 2008, _PS35-1_-_PS35-2_.	0.0	0
188	OS0402 Deformation Behavior at Interface between Filler and Polybutadiene under Cyclic Deformation : Molecular Dynamics Study. The Proceedings of the Materials and Mechanics Conference, 2008, 2008, _OS0402-1_-_OS0402-2_.	0.0	0
189	132 Evaluation of Temperature and Grain-size Dependences in Phase Field Crystal Deformation Simulation. The Proceedings of the Computational Mechanics Conference, 2008, 2008.21, 420-421.	0.0	0
190	109 Computational Evaluation of Viscoelastic Deformation Behavior of Silica-Filled Rubber Based on Molecular Chain Network Theory. The Proceedings of the Computational Mechanics Conference, 2008, 2008.21, 113-114.	0.0	0
191	306 Statistical Evaluation on Unstable Atoms in Amorphous Metals : Local Lattice Instability Analysis. The Proceedings of Conference of Kansai Branch, 2009, 2009.84, _3-6_.	0.0	0
192	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
193	915 Modeling and Computational Evaluation of Surface Properties of Silica-Filled Rubber Based on Molecular Chain Network Theory. The Proceedings of the Computational Mechanics Conference, 2009, 2009.22, 635-636.	0.0	0
194	702 Evaluation of Hysterisis of Silica-Filled Rubber by Finite Element Simulation. The Proceedings of the Computational Mechanics Conference, 2011, 2011.24, 164-165.	0.0	0
195	Finite Element Methods for Analysis of Metal Forming Processes. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 1981, 67, 710-719.	0.4	0
196	FLOW LOCALIZATION IN THERMO-ELASTO-VISCOPLASTIC MATERIALS UNDER PLANE STRAIN CONDITION. , 1993, , 139-146.		0
197	Dynamic Flow Localization in Plane-Strain Blocks Obeying a Thermo-Elasto-Viscoplastic Constitutive Equation. Solid Mechanics and Its Applications, 1995, , 141-148.	0.2	0
198	NETWORK MODELS FOR GLASSY POLYMER AND PREDICTION OF INSTABILITY PROPAGATION. Zairyo/Journal of the Society of Materials Science, Japan, 1997, 46, 125-136.	0.2	0

#	Article	IF	Citations
199	Strength Evaluation for Wire of Semiconductor Package.. Journal of Japan Institute of Electronics Packaging, 1998, 1, 221-224.	0.1	0