

Yoshihiro Tomita

List of Publications by Year in descending order

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papers

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199
docs citations

199
times ranked

1863
citing authors

#	ARTICLE	IF	CITATIONS
1	Constitutive Equations for Rubber under Abrupt Change in Strain Rate Direction. Key Engineering Materials, 2019, 794, 9-18.	0.4	0
2	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
3	Phase-Field Modeling for Dynamic Recrystallization. Advanced Structured Materials, 2015, , 441-459.	0.3	10
4	Effect of Silica Coupling Agents on Texture Formation and Strengthening for Silica-Filled Rubber. Key Engineering Materials, 2014, 626, 40-45.	0.4	3
5	Deformation behavior of silica-filled rubber with coupling agents under monotonic and cyclic straining. International Journal of Mechanical Sciences, 2014, 86, 7-17.	3.6	14
6	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
7	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.	0.1	3
8	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.	0.1	3
9	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
10	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
11	Multi-phase-field Simulations of Dynamic Recrystallization during Transient Deformation. ISIJ International, 2011, 51, 1717-1723.	0.6	21
12	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
13	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
14	The Effects of Structure Orientation on the Growth of Fe₂/sub>B Boride by Multi-Phase-Field Simulation. Materials Transactions, 2010, 51, 62-67.	0.4	16
15	Elastoplastic phase-field simulation of martensitic transformation with plastic deformation in polycrystal. International Journal of Mechanical Sciences, 2010, 52, 245-250.	3.6	74
16	Studies on Micro- to Macroscopic Mechanical Behavior of Porous Polymer under Compaction. International Journal of Damage Mechanics, 2010, 19, 271-283.	2.4	2
17	Computational Evaluation of Elasto-Viscoplastic Deformation and Strength of Rubber Blended Semi-crystalline Polymer. International Journal of Damage Mechanics, 2010, 19, 361-374.	2.4	9
18	Development of numerical scheme for phase field crystal deformation simulation. Computational Materials Science, 2009, 44, 1192-1197.	1.4	69

#	ARTICLE	IF	CITATIONS
19	Modeling and Simulation of Viscoelastic Deformation Behavior of Rubber Containing Fillers. Nippon Gomu Kyokaishi, 2009, 82, 464-471.	0.0	3
20	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
21	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
22	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
23	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
24	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
25	A micromechanical approach of nonlocal modeling for media with periodic microstructures. Mechanics Research Communications, 2008, 35, 126-133.	1.0	45
26	Phase-field study of interface energy effect on quantum dot morphology. Journal of Crystal Growth, 2008, 310, 2248-2253.	0.7	22
27	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.	1.5	13
28	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, .	0.8	15
29	Multi-Phase-Field Model to Simulate Microstructure Evolutions during Dynamic Recrystallization. Materials Transactions, 2008, 49, 2559-2565.	0.4	91
30	Computational Study on Misfit Dislocation in Ni-Based Superalloys by Quasicontinuum Method. Materials Transactions, 2008, 49, 2507-2514.	0.4	6
31	Free Energy Problem for the Simulations of the Growth of Fe₂B Phase Using Phase-Field Method. Materials Transactions, 2008, 49, 2625-2631.	0.4	31
32	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
33	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
34	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
35	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
36	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

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37	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
38	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
39	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
40	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
41	230 Indentation and Scratch on Forest Carbon Nanotubes : Molecular Dynamics Study. The Proceedings of the Computational Mechanics Conference, 2008, 2008.21, 444-445.	0.0	0
42	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
43	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
44	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
45	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
46	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
47	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
48	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
49	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
50	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
51	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
52	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
53	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
54	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

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55	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
56	Molecular Dynamics Study on Characteristics of Misfit Dislocations in Ni-Based Superalloys. Key Engineering Materials, 2007, 345-346, 951-954.	0.4	2
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 of Surface Morphology Evolution during Epitaxial Growth of SiGe/Si System. Key Engineering Materials, 2007, 340-341, 1073-1078.	0.4	3
59	Phase-Field Simulation during Spherulite Formation of Polymer. Key Engineering Materials, 2007, 345-346, 939-942.	0.4	6
60	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
61	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
62	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
63	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
64	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
65	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.	0.1	1
66	912 Phase-Field Simulation of Dynamic Recrystallization Process. The Proceedings of the Computational Mechanics Conference, 2007, 2007.20, 523-524.	0.0	0
67	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.	0.9	43
68	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
69	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
70	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
71	610 Phase-Field Modeling during Dynamic Recrystallization. The Proceedings of Conference of Kansai Branch, 2007, 2007.82, _6-10_.	0.0	0
72	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

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73	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
74	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
75	1234 Polymer Spherulite Growth Simulation by Phase-Field Method. The Proceedings of the JSME Annual Meeting, 2007, 2007.1, 47-48.	0.0	0
76	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
77	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
78	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
79	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
80	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
81	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
82	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
83	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
84	Nanoindentation on crystal/amorphous polyethylene: Molecular dynamics study. Computational Materials Science, 2006, 38, 136-143.	1.4	20
85	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
86	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
87	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.	0.1	20
88	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.	3.6	12
89	Two-dimensional phase-field simulation of self-assembled quantum dot formation. Journal of Crystal Growth, 2006, 287, 495-499.	0.7	28
90	Numerical evaluation of micro- to macroscopic mechanical behavior of carbon-black-filled rubber. International Journal of Mechanical Sciences, 2006, 48, 108-116.	3.6	28

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91	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
92	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
93	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
94	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
95	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
96	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
97	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
98	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
99	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
100	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
101	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
102	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
103	Phase-field simulation during directional solidification of a binary alloy using adaptive finite element method. Journal of Crystal Growth, 2005, 283, 263-278.	0.7	67
104	Computational characterization of micro- to mesoscopic deformation behavior of semicrystalline polymers. International Journal of Mechanical Sciences, 2005, 47, 687-700.	3.6	31
105	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
106	Quantitative evaluation of threshold fiber strain that induces reorganization of cytoskeletal actin fiber structure in osteoblastic cells. Journal of Biomechanics, 2005, 38, 1895-1901.	0.9	75
107	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
108	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

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109	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
110	1810 Local Lattice Instability of Amorphous Metals under Tension. The Proceedings of the JSME Annual Meeting, 2005, 2005.6, 217-218.	0.0	0
111	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
112	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
113	Phase-Field Simulation of Quantum Dot Formation. Zairyo/Journal of the Society of Materials Science, Japan, 2005, 54, 595-600.	0.1	1
114	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.	0.1	3
115	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
116	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
117	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.	0.1	4
118	Micro- to Macroscopic Deformation Behavior of Amorphous Polymer with Slightly Heterogeneous Distribution of Molecular Chains. Solid Mechanics and Its Applications, 2004, , 33-40.	0.1	1
119	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.	0.1	0
120	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
121	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
122	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
123	Ab initio study on Ni/Ni ₃ Al single crystals with doping elements. The Proceedings of the JSME Annual Meeting, 2004, 2004.6, 221-222.	0.0	0
124	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.	3.6	98
125	Characterization of micro- to macroscopic deformation behavior of amorphous polymer with heterogeneous distribution of microstructures. International Journal of Mechanical Sciences, 2003, 45, 1703-1716.	3.6	17
126	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.	1.3	27

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127	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
128	Shape optimization based on traction method using Voxel-FEM. The Proceedings of the JSME Annual Meeting, 2003, 2003.7, 1-2.	0.0	0
129	Modeling of dislocation behavior in $\hat{\beta}/\hat{\beta}'$ microstructure using Discrete Dislocation Dynamics. The Proceedings of the Computational Mechanics Conference, 2003, 2003.16, 445-446.	0.0	0
130	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
131	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
132	Molecular dynamics study on the dislocation in $\hat{\beta}/\hat{\beta}'$ microstructure of Ni based superalloy : Effect of lattice misfit between $\hat{\beta}$ matrix and $\hat{\beta}'$ precipitate. Proceedings of the 1992 Annual Meeting of JSME/MMD, 2003, 2003, 491-492.	0.0	0
133	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
134	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
135	Ab initio Molecular Dynamics Study on Lattice Instability of Ni and Ni ₃ Al. The Proceedings of the Computational Mechanics Conference, 2003, 2003.16, 513-514.	0.0	0
136	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.	2.4	9
137	Molecular dynamics simulation of dislocation nucleation and motion at $\hat{\beta}/\hat{\beta}'$ interface in Ni-based superalloy. International Journal of Mechanical Sciences, 2002, 44, 1845-1860.	3.6	58
138	Characterization of micro- to macroscopic response of polymers containing voids under macroscopically uniform deformation. International Journal of Solids and Structures, 2002, 39, 3409-3428.	1.3	21
139	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.	0.9	126
140	Computational Characterization of Micro to Macroscopic Mechanical Behavior and Damage Polymer Containing SecondPhase Particles. International Journal of Forming Processes, 2002, 5, 521-530.	0.3	2
141	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
142	714 ç→ä, €ãžŸçtè~ç©-ã«ã, ^ã, < Al â~çue™¶ã©çtæf³æ¼4ãã, ä%ã©šè\$£æž. The Proceedings of Conference of Kansai Branch, 2002, 2003.78, 5-31-5-32.	0.0	0
143	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
144	Deformation of Crystalline Polymers Containing Amorphous Phase. The Proceedings of the Computational Mechanics Conference, 2002, 2002.15, 111-112.	0.0	0

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145	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
146	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
147	Constitutive Equation and Computational Prediction of Deformation Behavior of TRIP Steels under Monotonic and Cyclic Loading. Solid Mechanics and Its Applications, 2002, , 9-18.	0.1	0
148	Effect of Actin Filament on Deformation-Induced Ca ²⁺ Response in Osteoblast-Like Cells. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2001, 44, 914-919.	0.3	4
149	Effective properties of cosserat composites with periodic microstructure. Mechanics Research Communications, 2001, 28, 265-270.	1.0	33
150	Computational prediction of deformation behavior of TRIP steels under cyclic loading. International Journal of Mechanical Sciences, 2001, 43, 2017-2034.	3.6	90
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