Taiji Adachi

List of Publications by Year
in descending order

331 papers	6,241 citations	101384 36 h-index	79541 73 g-index
347 all docs	347 docs citations	347 times ranked	6621 citing authors

#	Article	IF	Citations
1	Efficacy of the Wolverine cutting balloon on a circumferential calcified coronary lesion: Bench test using a three-dimensional printer and computer simulation with the finite element method. Cardiovascular Intervention and Therapeutics, 2022, 37, 78-88.	1.2	9
2	Pluripotency state of mouse ES cells determines their contribution to self-organized layer formation by mesh closure on microstructured adhesion-limiting substrates. Biochemical and Biophysical Research Communications, 2022, 590, 97-102.	1.0	1
3	Effect of chemically induced osteogenesis supplements on multicellular behavior of osteocytic spheroids. Biochemical and Biophysical Research Communications, 2022, 622, 79-85.	1.0	1
4	Modulation ofSostGene Expression Under Hypoxia in Three-Dimensional Scaffold-Free Osteocytic Tissue. Tissue Engineering - Part A, 2021, 27, 1037-1043.	1.6	9
5	Continuum modeling for neuronal lamination during cerebral morphogenesis considering cell migration and tissue growth. Computer Methods in Biomechanics and Biomedical Engineering, 2021, 24, 799-805.	0.9	3
6	In Silico Experiments to Explore Metabolic Bone Diseases and Their Drug Treatment. Seibutsu Butsuri, 2021, 61, 174-176.	0.0	0
7	Three-dimensional culture technology: Self-organized spheroid culture drives osteocytogenesis. , 2021, , .		0
8	Large magnitude of force leads to NO-mediated cell shrinkage in single osteocytes implying an initial apoptotic response. Journal of Biomechanics, 2021, 117, 110245.	0.9	2
9	Uniaxially fixed mechanical boundary condition elicits cellular alignment in collagen matrix with induction of osteogenesis. Scientific Reports, 2021, 11, 9009.	1.6	6
10	Edge-localized alteration in pluripotency state of mouse ES cells forming topography-confined layers on designed mesh substrates. Stem Cell Research, 2021, 53, 102352.	0.3	1
11	Cell-fate decision of mesenchymal stem cells toward osteocyte differentiation is committed by spheroid culture. Scientific Reports, 2021, 11, 13204.	1.6	19
12	Wolverine cutting balloon in the treatment of stent underexpansion in heavy coronary calcification: bench test using a three-dimensional printer and computer simulation with the finite-element method. Cardiovascular Intervention and Therapeutics, 2021, , 1.	1.2	3
13	High-resolution image-based simulation reveals membrane strain concentration on osteocyte processes caused by tethering elements. Biomechanics and Modeling in Mechanobiology, 2021, 20, 2353-2360.	1.4	12
14	Comparative gene expression analysis for pre-osteoblast MC3T3-E1 cells under non-adhesive culture toward osteocyte differentiation. Journal of Bioscience and Bioengineering, 2021, 132, 651-656.	1.1	4
15	Controlling macroscale cell alignment in self-organized cell sheets by tuning the microstructure of adhesion-limiting micromesh scaffolds. Materials Today Advances, 2021, 12, 100194.	2.5	3
16	Computational framework for analyzing flow-induced strain on osteocyte as modulated by microenvironment. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 126, 105027.	1.5	5
17	An energy landscape approach to understanding variety and robustness in tissue morphogenesis. Biomechanics and Modeling in Mechanobiology, 2020, 19, 471-479.	1.4	6
18	Mechanotransduction via the Piezo1-Akt pathway underlies Sost suppression in osteocytes. Biochemical and Biophysical Research Communications, 2020, 521, 806-813.	1.0	50

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19	Epithelial tissue folding pattern in confined geometry. Biomechanics and Modeling in Mechanobiology, 2020, 19, 815-822.	1.4	10
20	Functional Adaptation of the Fibrocartilage and Bony Trabeculae at the Attachment Sites of the Anterior Cruciate Ligament. Clinical Anatomy, 2020, 33, 988-996.	1.5	7
21	Intrauterine Pressures Adjusted by Reichertâ€™s Membrane Are Crucial for Early Mouse Morphogenesis. Cell Reports, 2020, 31, 107637.	2.9	20
22	Theoretical concept of cortical to cancellous bone transformation. Bone Reports, 2020, 12, 100260.	0.2	8
23	Application of explainable ensemble artificial intelligence model to categorization of hemodialysis-patient and treatment using nationwide-real-world data in Japan. PLoS ONE, 2020, 15, e0233491.	1.1	13
24	In silico experiments of bone remodeling explore metabolic diseases and their drug treatment. Science Advances, 2020, 6, eaax0938.	4.7	34
25	Characterization of self-organized osteocytic spheroids using mouse osteoblast-like cells. Journal of Biomechanical Science and Engineering, 2020, 15, 20-00227-20-00227.	0.1	7
26	Title is missing!. , 2020, 15, e0233491.		0
27	Title is missing!. , 2020, 15, e0233491.		0
28	Title is missing!. , 2020, 15, e0233491.		0
29	Title is missing!. , 2020, 15, e0233491.		0
30	Polarized cellular mechanoresponse system for maintaining radial size in developing epithelial tubes. Development (Cambridge), 2019, 146, .	1.2	19
31	Cell Condensation Triggers the Differentiation of Osteoblast Precursor Cells to Osteocyte-Like Cells. Frontiers in Bioengineering and Biotechnology, 2019, 7, 288.	2.0	36
32	Talin is required to increase stiffness of focal molecular complex in its early formation process. Biochemical and Biophysical Research Communications, 2019, 518, 579-583.	1.0	6
33	In vitro bone-like nodules generated from patient-derived iPSCs recapitulate pathological bone phenotypes. Nature Biomedical Engineering, 2019, 3, 558-570.	11.6	57
34	Mobility of Molecular Motors Regulates Contractile Behaviors of Actin Networks. Biophysical Journal, 2019, 116, 2161-2171.	0.2	5
35	Modulation of adhesion microenvironment using mesh substrates triggers self-organization and primordial germ cell-like differentiation in mouse ES cells. APL Bioengineering, 2019, 3, 016102.	3.3	4
36	Forceful mastication activates osteocytes and builds a stout jawbone. Scientific Reports, 2019, 9, 4404.	1.6	34

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37	Facilitated osteogenic differentiation of mouse pre-osteoblast cells in three-dimensional tissue engineered constructs. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2019, 2019.30, 2A24.	0.0	0
38	Pre-osteoblast cells in three-dimensional spheroids evoke in vitro osteocytogenesis. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2019, 2019.32, 1A21.	0.0	0
39	Modeling Mechano-chemical Couplings in Bone Adaptation by Remodeling. MCB Molecular and Cellular Biomechanics, 2019, 16, 88-88.	0.3	0
40	Induction of cell orientation in cell sheets using adhesion limiting substrates.. The Proceedings of Mechanical Engineering Congress Japan, 2019, 2019, J02802.	0.0	0
41	Combining Turing and 3D vertex models reproduces autonomous multicellular morphogenesis with undulation, tubulation, and branching. Scientific Reports, 2018, 8, 2386.	1.6	44
42	Real-time TIRF observation of vinculin recruitment to stretched Î±-catenin by AFM. Scientific Reports, 2018, 8, 1575.	1.6	21
43	Overview: In Silico Approaches to Understand Bone Adaptation. Frontiers of Biomechanics, 2018, , 1-11.	0.1	0
44	Comparison of Mechanical Quantities as Bone Remodeling Stimuli. Frontiers of Biomechanics, 2018, , 131-144.	0.1	0
45	Trabecular Surface Remodeling Simulation of Cancellous Bone Using Image-Based Voxel Finite Element Models. Frontiers of Biomechanics, 2018, , 145-161.	0.1	0
46	Functional Adaptation of Cancellous Bone in Human Proximal Femur. Frontiers of Biomechanics, 2018, , 163-175.	0.1	0
47	3D Trabecular Remodeling in Human Proximal Femur: Approach to Understanding Wolffâ€™s Law. Frontiers of Biomechanics, 2018, , 177-185.	0.1	0
48	Trabecular Structural Changes in a Vertebral Body with a Fixation Screw. Frontiers of Biomechanics, 2018, , 187-203.	0.1	0
49	Microscopic Fluid Flow Analysis in an Osteocyte Canaliculus. Frontiers of Biomechanics, 2018, , 13-24.	0.1	0
50	Macroscopic Fluid Flow Analysis in a Poroelastic Trabecula. Frontiers of Biomechanics, 2018, , 25-44.	0.1	0
51	Estimation of Bone Permeability for Poroelastic Analysis. Frontiers of Biomechanics, 2018, , 45-63.	0.1	0
52	Modeling Trabecular Bone Adaptation Induced by Flow Stimuli to Osteocytes. Frontiers of Biomechanics, 2018, , 65-81.	0.1	0
53	Effects of Local Bending Load on Trabecular Bone Adaptation. Frontiers of Biomechanics, 2018, , 83-90.	0.1	0
54	Cancellous Bone Adaptation Predicted by Remodeling Simulations. Frontiers of Biomechanics, 2018, , 91-101.	0.1	0

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55	Trabecular Surface Remodeling Toward Uniform Local Stress State. Frontiers of Biomechanics, 2018, , 103-119.	0.1	0
56	Spatial and Temporal Regulation of Cancellous Bone Structure by Trabecular Surface Remodeling. Frontiers of Biomechanics, 2018, , 121-129.	0.1	0
57	Strain-triggered mechanical feedback in self-organizing optic-cup morphogenesis. Science Advances, 2018, 4, eaau1354.	4.7	69
58	Hyaluronic acid selective anchoring to the cytoskeleton: An atomic force microscopy study. PLoS ONE, 2018, 13, e0206056.	1.1	6
59	Elasticity-based boosting of neuroepithelial nucleokinesis via indirect energy transfer from mother to daughter. PLoS Biology, 2018, 16, e2004426.	2.6	21
60	Bone Adaptation. Frontiers of Biomechanics, 2018, , .	0.1	1
61	Computational Biomechanics of Bone Adaptation by Remodeling. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2018, , 231-257.	0.3	1
62	Fabrication of orientated myoblast cell sheets by modulating cell-substrate adhesion. The Proceedings of Mechanical Engineering Congress Japan, 2018, 2018, J0220102.	0.0	0
63	Nano-mechanical characterization of tension-sensitive helix bundles in talin rod. Biochemical and Biophysical Research Communications, 2017, 484, 372-377.	1.0	6
64	Local Stiffness of Osteocyte Using Atomic Force Microscopy. Journal of Nanoscience and Nanotechnology, 2017, 17, 5755-5758.	0.9	1
65	Capturing microscopic features of bone remodeling into a macroscopic model based on biological rationales of bone adaptation. Biomechanics and Modeling in Mechanobiology, 2017, 16, 1697-1708.	1.4	10
66	In vitro tubulogenesis of Madinâ€“Darby canine kidney (MDCK) spheroids occurs depending on constituent cell number and scaffold gel concentration. Journal of Theoretical Biology, 2017, 435, 110-115.	0.8	9
67	Synergistic acceleration of experimental tooth movement by supplementary high-frequency vibration applied with a static force in rats. Scientific Reports, 2017, 7, 13969.	1.6	34
68	Mechanical role of the spatial patterns of contractile cells in invagination of growing epithelial tissue. Development Growth and Differentiation, 2017, 59, 444-454.	0.6	14
69	Mechanical Effects of Cellular Activities During Optic-cup Morphogenesis. The Proceedings of Mechanical Engineering Congress Japan, 2017, 2017, J0230104.	0.0	0
70	The analysis of nitric oxide production behavior in mouse isolated osteocytes. The Proceedings of Mechanical Engineering Congress Japan, 2017, 2017, S0210206.	0.0	0
71	Bone Metabolism and Remodeling Simulation at Cancellous Bone Scale. The Proceedings of Mechanical Engineering Congress Japan, 2017, 2017, J0230102.	0.0	0
72	A Perturbation Analysis to Understand the Mechanism How Migrating Cells Sense and Respond to a Topography in the Extracellular Environment. Analytical Sciences, 2016, 32, 1207-1211.	0.8	1

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73	Electrochemical Polymerization of PEDOT/Biomolecule Composite Films on Microelectrodes for the Measurement of Extracellular Field Potential. Electrochemistry, 2016, 84, 354-357.	0.6	3
74	Mechano-adaptive sensory mechanism of Î±-catenin under tension. Scientific Reports, 2016, 6, 24878.	1.6	55
75	Evaluation of Kinesin Headâ€“Microtubule Binding Stability Changes Influenced by Microtubule-Binding Molecules. Journal of Nanoscience and Nanotechnology, 2016, 16, 7186-7190.	0.9	0
76	Mechanical roles of apical constriction, cell elongation, and cell migration during neural tube formation in Xenopus. Biomechanics and Modeling in Mechanobiology, 2016, 15, 1733-1746.	1.4	50
77	Mechanosensitive kinetic preference of actin-binding protein to actin filament. Physical Review E, 2016, 93, 042403.	0.8	3
78	Spontaneous anterior arch fracture of the atlas following C1 laminectomy without fusion: A report of three cases and finite element analysis. Journal of Orthopaedic Science, 2016, 21, 306-315.	0.5	16
79	Three-Dimensional Vertex Simulation on Smooth Surface Maintenance of Growing Epithelial Tissue Based on Intercellular Mechano-Feedback. Biophysical Journal, 2016, 110, 308a.	0.2	1
80	Nanolithography of Amyloid Precursor Protein Cleavage with <I>Î²</I>-Secretase by Atomic Force Microscopy. Journal of Biomedical Nanotechnology, 2016, 12, 546-553.	0.5	1
81	Modeling cell apoptosis for simulating three-dimensional multicellular morphogenesis based on a reversible network reconnection framework. Biomechanics and Modeling in Mechanobiology, 2016, 15, 805-816.	1.4	19
82	Computer simulation of orthodontic tooth movement using CT image-based voxel finite element models with the level set method. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 474-483.	0.9	11
83	Functional Investigation of a Non-coding Variant Associated with Adolescent Idiopathic Scoliosis in Zebrafish: Elevated Expression of the Ladybird Homeobox Gene Causes Body Axis Deformation. PLoS Genetics, 2016, 12, e1005802.	1.5	51
84	2H14 Effects of remodeling signals on bone functional adaptation. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2016, 2016.28, _2H14-1_-_2H14-4_.	0.0	0
85	Consideration of the experimental approach to elucidate the morphological change of osteocytes in bone tissue. The Proceedings of Mechanical Engineering Congress Japan, 2016, 2016, J0280102.	0.0	0
86	2D42 AFM molecular imaging of vinculin-binding to Î±-catenin. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2016, 2016.28, _2D42-1_-_2D42-5_.	0.0	0
87	Imaging analysis of formation for epithelial cell aggregates due to mechanical environment. The Proceedings of Mechanical Engineering Congress Japan, 2016, 2016, S0210102.	0.0	0
88	2D21 Simulation of morphological change in epithelial tissue considering feedback between constriction force and shape at cell level. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2016, 2016.28, _2D21-1_-_2D21-5_.	0.0	0
89	2D41 Mechano-adaptive mechanism of Î±-catenin as a tension-sensory molecule. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2016, 2016.28, _2D41-1_-_2D41-4_.	0.0	0
90	Nanofishing and structural imaging of tension-sensor protein employing atomic force microscopy. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2016, 2016.27, A204.	0.0	0

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91	Brownian dynamics simulation study on forceâ€“velocity relation in actin-based membrane protrusion. Computational Particle Mechanics, 2015, 2, 329-337.	1.5	2
92	Three-dimensional vertex model for simulating multicellular morphogenesis. Biophysics and Physicobiology, 2015, 12, 13-20.	0.5	48
93	Procedures for the Quantification of Whole-Tissue Immunofluorescence Images Obtained at Single-Cell Resolution during Murine Tubular Organ Development. PLoS ONE, 2015, 10, e0135343.	1.1	27
94	Vertex dynamics simulations of viscosity-dependent deformation during tissue morphogenesis. Biomechanics and Modeling in Mechanobiology, 2015, 14, 413-425.	1.4	76
95	Î²-Catenin as a Tension Transmitter Revealed by AFM Nanomechanical Testing. Cellular and Molecular Bioengineering, 2015, 8, 14-21.	1.0	5
96	Finite element formulation and analysis for an arterial wall with residual and active stresses. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 1143-1159.	0.9	2
97	Coupling intercellular molecular signalling with multicellular deformation for simulating three-dimensional tissue morphogenesis. Interface Focus, 2015, 5, 20140095.	1.5	17
98	A Novel Osteoblast/Osteocyte Selection Method in Primary Isolated Chick Bone Cells by Atomic Force Microscopy. Journal of Nanoscience and Nanotechnology, 2015, 15, 3923-3927.	0.9	0
99	A Novel Graphene Oxide-Based Protein Interaction Measurement Using Atomic Force Microscopy. Journal of Nanoscience and Nanotechnology, 2015, 15, 1188-1190.	0.9	0
100	Multiscale Analysis of Cell Peripheral Motility. Frontiers of Biomechanics, 2015, , 73-86.	0.1	0
101	Multiscale Mechanochemical Interactions Between Cell Membrane and Actin Filaments. Frontiers of Biomechanics, 2015, , 87-105.	0.1	0
102	Actin Network Flow and Turnover Are Coupled in Migrating Cells. Frontiers of Biomechanics, 2015, , 27-39.	0.1	0
103	Design Concept of Topographical and Mechanical Properties of Synthetic Extracellular Matrix to Control Cell Functions and Fates Through Actin Cytoskeletal Modulation. Frontiers of Biomechanics, 2015, , 159-186.	0.1	1
104	Regulation of Actin Cytoskeleton Dynamics in Migrating Cells. Frontiers of Biomechanics, 2015, , 11-25.	0.1	0
105	Cell Migration in Engineered Microstructured Surfaces. Frontiers of Biomechanics, 2015, , 139-158.	0.1	0
106	1C11 Unfolding of Î±-catenin depending on mechanical stability of structural domains. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 97-98.	0.0	0
107	J0220202 AFM interaction measurement for AJ components molecules involving conformational changes. The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015, _J0220202--_J0220202-.	0.0	0
108	1C41 Influence of spatially patterned mechanical cell activities on the tissue invagination. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 125-126.	0.0	0

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109	M710 Force curve analysis method for AFM molecular interaction measurement. The Proceedings of Conference of Kansai Branch, 2015, 2015.90, 358.	0.0	0
110	1C12 Interaction analysis between Wnt antagonists and its receptor by using AFM. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 99-100.	0.0	0
111	2A44 Contribution of Focal Adhesion in Cell Migration on Microstructured Surfaces. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 337-338.	0.0	0
112	J0220201 Fluorescence imaging and morphometry of osteocytes within tissue. The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015, _J0220201--_J0220201-.	0.0	0
113	GS4-3 Mechanical roles of Î²-catenin for AJ-mediated force transmission(GS4: Molecular Biomechanics). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2015, 2015.8, 164.	0.0	0
114	M304 Observation of cellular behaviors in morphogenesis of optic vesicle derived from mES cells. The Proceedings of Conference of Kansai Branch, 2015, 2015.90, 298.	0.0	0
115	OS5-8 AFM INTERACTION MEASUREMENT BETWEEN WNT SIGNALING MOLECULES AND THEIR RECEPTOR(OS5:) Tj ETQq1 1 0.784314 Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2015, 2015.8, 96.	0.0	0
116	J0210204 Influence of the balance between RANKL and OPG expression rates on the functional adaptation capacity of trabeculae. The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015, _J0210204--_J0210204-.	0.0	0
117	GS1-11 THE EFFECTS OF DISTRIBUTION OF ADHESION PROTEINS ON SENSING MICROGROOVED STRUCTURE IN MIGRATING CELLS(GS1: Cell and Tissue Biomechanics II). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2015, 2015.8, 125.	0.0	0
118	J0210105 Mathematical modeling of apical constriction adjustment for maintaining smooth surface of growing epithelial tissue. The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015, _J0210105--_J0210105-.	0.0	0
119	Modeling trabecular bone adaptation to local bending load regulated by mechanosensing osteocytes. Acta Mechanica, 2014, 225, 2833-2840.	1.1	12
120	Topography Design Concept of a Tissue Engineering Scaffold for Controlling Cell Function and Fate Through Actin Cytoskeletal Modulation. Tissue Engineering - Part B: Reviews, 2014, 20, 609-627.	2.5	63
121	Cytokine expression in gingival hyperplasia induced by cyclosporine A in mice. Journal of Oral and Maxillofacial Surgery, 2014, 72, e97-e98.	0.5	0
122	Single-Cell Manipulation and DNA Delivery Technology Using Atomic Force Microscopy and Nanoneedle. Journal of Nanoscience and Nanotechnology, 2014, 14, 57-70.	0.9	11
123	Interstitial fluid flow in canaliculi as a mechanical stimulus for cancellous bone remodeling: in silico validation. Biomechanics and Modeling in Mechanobiology, 2014, 13, 851-860.	1.4	25
124	Numerical analysis of arterial contraction regulated by smooth muscle stretch and intracellular calcium ion concentration. Journal of Biomechanical Science and Engineering, 2014, 9, JBSE0002-JBSE0002.	0.1	3
125	New simulation model for bone formation markers in osteoporosis patients treated with once-weekly teriparatide. Bone Research, 2014, 2, 14043.	5.4	8
126	Probing Actin Filament and Binding Protein Interaction Using an Atomic Force Microscopy. Journal of Nanoscience and Nanotechnology, 2014, 14, 5654-5657.	0.9	3

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127	Estimation of Changes in Mechanical Bone Quality by Multi-scale Analysis with Remodeling Simulation. IFMBE Proceedings, 2014, , 48-51.	0.2	1
128	Mechanics-based Simulations for Understanding Multicellular Tissue Morphogenesis. Seibutsu Butsuri, 2014, 54, 031-034.	0.0	5
129	1E11 Energy between cofilin and actin in cofilin-decorated actin filament under tensile force. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 123-124.	0.0	0
130	1E12 Influence of mechanical stimulus on mouse ES cell differentiation : Investigation based on mRNA expression levels. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 125-126.	0.0	0
131	S0210101 Contribution of Cell Proliferation and Apical Contraction on Epithelial Tissue Deformation Examined by Using a Multi-cellular Dynamics Simulation. The Proceedings of Mechanical Engineering Congress Japan, 2014, 2014, _S0210101-_S0210101-.	0.0	0
132	J0270101 Interaction measurement of Wnt signal receptor and its regulators using AFM. The Proceedings of Mechanical Engineering Congress Japan, 2014, 2014, _J0270101-_J0270101-.	0.0	0
133	2E24 Mechanical properties of cell cortex in mouse leukocyte migration. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 449-450.	0.0	0
134	J0240102 Investigation of conditions of SMD simulation for alpha-helical proteins. The Proceedings of Mechanical Engineering Congress Japan, 2014, 2014, _J0240102-_J0240102-.	0.0	0
135	Spatiotemporal Properties of a Cell Shape Change Revealed by Multiscale Analysis. Seibutsu Butsuri, 2014, 54, 221-225.	0.0	0
136	1E21 Analysis of the nanomechanical behaviors of Î±-catenin under tensile loads. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 135-136.	0.0	0
137	S0210102 Observation of invagination process in multicellular tissue morphogenesis from mES cells. The Proceedings of Mechanical Engineering Congress Japan, 2014, 2014, _S0210102-_S0210102-.	0.0	0
138	21am2-E3 Role of spatial patterns of apical constricted cells in epithelial tissue deformations. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2014, 2014.6, _21am2-E3-_21am2-E3-.	0.0	0
139	1F33 Cortical Bone Remodeling Simulation Considering Signaling Systems. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 191-192.	0.0	0
140	Evaluation of Actin Curvature Dependent Actin-Arp2/3 Interaction Change Using AFM and Graphene Oxide Sheets. Science of Advanced Materials, 2014, 6, 2453-2458.	0.1	0
141	Role of the Actinâ€“Myosin Catch Bond on Actomyosin Aggregate Formation. Cellular and Molecular Bioengineering, 2013, 6, 3-12.	1.0	1
142	Reversible network reconnection model for simulating large deformation in dynamic tissue morphogenesis. Biomechanics and Modeling in Mechanobiology, 2013, 12, 627-644.	1.4	53
143	Apical contractility in growing epithelium supports robust maintenance of smooth curvatures against cell-division-induced mechanical disturbance. Journal of Biomechanics, 2013, 46, 1705-1713.	0.9	30
144	Three-dimensional modulation of cortical plasticity during pseudopodial protrusion of mouse leukocytes. Biochemical and Biophysical Research Communications, 2013, 438, 594-599.	1.0	8

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145	Modeling cell proliferation for simulating three-dimensional tissue morphogenesis based on a reversible network reconnection framework. Biomechanics and Modeling in Mechanobiology, 2013, 12, 987-996.	1.4	42
146	TAG-1â€“assisted progenitor elongation streamlines nuclear migration to optimize subapical crowding. Nature Neuroscience, 2013, 16, 1556-1566.	7.1	93
147	External Mechanical Cues Trigger the Establishment of the Anterior-Posterior Axis in Early Mouse Embryos. Developmental Cell, 2013, 27, 131-144.	3.1	125
148	2SEA-04 Computational biophysics on epithelial tissue deformation : from molecular to tissue scale(2SEA Biophysical views in structural cell biology,Symposium,The 51th Annual Meeting of the) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.0	0
149	Real-Time Monitoring of Changes in Microtubule Mechanical Properties in Response to Microtubule-Destabilizing Drug Treatment. Journal of Nanoscience and Nanotechnology, 2013, 13, 2087-2090.	0.9	1
150	1E07 Study on mechanical behaviors of amino residues in actin filament as a mechano-sensor using molecular dynamics simulation. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2013, 2013.25, 155-156.	0.0	0
151	J021013 BMU movement analyzed by trabecular and osteonal remodeling simulation. The Proceedings of Mechanical Engineering Congress Japan, 2013, 2013, _J021013-1-_J021013-3.	0.0	0
152	3D07 In vitro experimental system for observation of cell cycles in optic-cup morphogenesis. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2013, 2013.25, 565-566.	0.0	0
153	J021011 Energy landscape between adjacent subunits in cofilin-decorated actin filament. The Proceedings of Mechanical Engineering Congress Japan, 2013, 2013, _J021011-1-_J021011-3.	0.0	0
154	OS0713 Finite element analysis for the morphological change of a vascular sheet induced by its growth. The Proceedings of the Materials and Mechanics Conference, 2013, 2013, _OS0713-1_-_OS0713-3_.	0.0	0
155	Birth of Earth Pressure Balanced shield method and its applications in Japan. , 2013, , 1235-1242.		1
156	Roles of Heparan Sulfate Sulfation in Dentinogenesis. Journal of Biological Chemistry, 2012, 287, 12217-12229.	1.6	36
157	1PT148 Analysis of the mechanical behavior of Î²-catenin using AFM(The 50th Annual Meeting of the) Tj ETQq1 1 0.784314 rgBT /Ove	0.0	0
158	Role of Actin Cytoskeletal Structure for Cell Migration on Micro-Structured Surfaces. Biophysical Journal, 2012, 102, 220a.	0.2	0
159	Molecular Dynamics Analysis of Coupling Behaviors Between Extension and Torsion of Actin Filaments. Biophysical Journal, 2012, 102, 372a-373a.	0.2	0
160	Microscale fluid flow analysis in a human osteocyte canaliculus using a realistic high-resolution image-based three-dimensional model. Integrative Biology (United Kingdom), 2012, 4, 1198-1206.	0.6	76
161	Spatiotemporal coordinated hierarchical properties of cellular protrusion revealed by multiscale analysis. Integrative Biology (United Kingdom), 2012, 4, 875-888.	0.6	11
162	Quantitative analysis of extensionâ€“torsion coupling of actin filaments. Biochemical and Biophysical Research Communications, 2012, 420, 710-713.	1.0	12

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163	Interfacial fatigue crack propagation in microscopic model composite using bifiber shear specimens. Composites Part A: Applied Science and Manufacturing, 2012, 43, 239-246.	3.8	9
164	Modeling and Simulation of Myosin-Dependent Rearrangement and Force Generation in an Actomyosin Network. Biophysical Journal, 2012, 102, 375a.	0.2	0
165	Multiscale modeling and mechanics of filamentous actin cytoskeleton. Biomechanics and Modeling in Mechanobiology, 2012, 11, 291-302.	1.4	29
166	Characteristics of motility-based filtering of adherent cells on microgrooved surfaces. Biomaterials, 2012, 33, 395-401.	5.7	22
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