

Taiji Adachi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

302
papers

4,832
citations

32
h-index

66
g-index

347
ext. papers

5,628
ext. citations

3.4
avg, IF

5.55
L-index

#	Paper	IF	Citations
302	Pluripotency state of mouse ES cells determines their contribution to self-organized layer formation by mesh closure on microstructured adhesion-limiting substrates.. <i>Biochemical and Biophysical Research Communications</i> , 2021 , 590, 97-102	3.4	
301	Controlling macroscale cell alignment in self-organized cell sheets by tuning the microstructure of adhesion-limiting micromesh scaffolds. <i>Materials Today Advances</i> , 2021 , 12, 100194	7.4	0
300	Computational framework for analyzing flow-induced strain on osteocyte as modulated by microenvironment.. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 126, 105027	4.1	2
299	Modulation of Gene Expression Under Hypoxia in Three-Dimensional Scaffold-Free Osteocytic Tissue. <i>Tissue Engineering - Part A</i> , 2021 , 27, 1037-1043	3.9	3
298	Large magnitude of force leads to NO-mediated cell shrinkage in single osteocytes implying an initial apoptotic response. <i>Journal of Biomechanics</i> , 2021 , 117, 110245	2.9	1
297	Uniaxially fixed mechanical boundary condition elicits cellular alignment in collagen matrix with induction of osteogenesis. <i>Scientific Reports</i> , 2021 , 11, 9009	4.9	3
296	Edge-localized alteration in pluripotency state of mouse ES cells forming topography-confined layers on designed mesh substrates. <i>Stem Cell Research</i> , 2021 , 53, 102352	1.6	1
295	Cell-fate decision of mesenchymal stem cells toward osteocyte differentiation is committed by spheroid culture. <i>Scientific Reports</i> , 2021 , 11, 13204	4.9	6
294	In Silico Experiments to Explore Metabolic Bone Diseases and Their Drug Treatment. <i>Seibutsu Butsuri</i> , 2021 , 61, 174-176	0	
293	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. <i>Cardiovascular Intervention and Therapeutics</i> , 2021 , 1	2.5	3
292	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. <i>Cardiovascular Intervention and Therapeutics</i> , 2021 , 1	2.5	
291	High-resolution image-based simulation reveals membrane strain concentration on osteocyte processes caused by tethering elements. <i>Biomechanics and Modeling in Mechanobiology</i> , 2021 , 20, 2353-2360	3.8	5
290	Comparative gene expression analysis for pre-osteoblast MC3T3-E1 cells under non-adhesive culture toward osteocyte differentiation. <i>Journal of Bioscience and Bioengineering</i> , 2021 , 132, 651-656	3.3	0
289	Continuum modeling for neuronal lamination during cerebral morphogenesis considering cell migration and tissue growth. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020 , 1-7	2.1	0
288	Theoretical concept of cortical to cancellous bone transformation. <i>Bone Reports</i> , 2020 , 12, 100260	2.6	2
287	Application of explainable ensemble artificial intelligence model to categorization of hemodialysis-patient and treatment using nationwide-real-world data in Japan. <i>PLoS ONE</i> , 2020 , 15, e0233491	3.7	8
286	In silico experiments of bone remodeling explore metabolic diseases and their drug treatment. <i>Science Advances</i> , 2020 , 6, eaax0938	14.3	18

285	Characterization of self-organized osteocytic spheroids using mouse osteoblast-like cells. <i>Journal of Biomechanical Science and Engineering</i> , 2020 , 15, 20-00227-20-00227	0.8	2
284	Mechanotransduction via the Piezo1-Akt pathway underlies Sost suppression in osteocytes. <i>Biochemical and Biophysical Research Communications</i> , 2020 , 521, 806-813	3.4	27
283	Epithelial tissue folding pattern in confined geometry. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020 , 19, 815-822	3.8	6
282	Functional Adaptation of the Fibrocartilage and Bony Trabeculae at the Attachment Sites of the Anterior Cruciate Ligament. <i>Clinical Anatomy</i> , 2020 , 33, 988-996	2.5	1
281	Intrauterine Pressures Adjusted by Reichert's Membrane Are Crucial for Early Mouse Morphogenesis. <i>Cell Reports</i> , 2020 , 31, 107637	10.6	8
280	An energy landscape approach to understanding variety and robustness in tissue morphogenesis. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020 , 19, 471-479	3.8	4
279	Application of explainable ensemble artificial intelligence model to categorization of hemodialysis-patient and treatment using nationwide-real-world data in Japan 2020 , 15, e0233491		
278	Application of explainable ensemble artificial intelligence model to categorization of hemodialysis-patient and treatment using nationwide-real-world data in Japan 2020 , 15, e0233491		
277	Application of explainable ensemble artificial intelligence model to categorization of hemodialysis-patient and treatment using nationwide-real-world data in Japan 2020 , 15, e0233491		
276	Application of explainable ensemble artificial intelligence model to categorization of hemodialysis-patient and treatment using nationwide-real-world data in Japan 2020 , 15, e0233491		
275	Talin is required to increase stiffness of focal molecular complex in its early formation process. <i>Biochemical and Biophysical Research Communications</i> , 2019 , 518, 579-583	3.4	4
274	In vitro bone-like nodules generated from patient-derived iPSCs recapitulate pathological bone phenotypes. <i>Nature Biomedical Engineering</i> , 2019 , 3, 558-570	19	32
273	Mobility of Molecular Motors Regulates Contractile Behaviors of Actin Networks. <i>Biophysical Journal</i> , 2019 , 116, 2161-2171	2.9	3
272	Modulation of adhesion microenvironment using mesh substrates triggers self-organization and primordial germ cell-like differentiation in mouse ES cells. <i>APL Bioengineering</i> , 2019 , 3, 016102	6.6	3
271	Forceful mastication activates osteocytes and builds a stout jawbone. <i>Scientific Reports</i> , 2019 , 9, 4404	4.9	13
270	Polarized cellular mechano-response system for maintaining radial size in developing epithelial tubes. <i>Development (Cambridge)</i> , 2019 , 146,	6.6	14
269	Cell Condensation Triggers the Differentiation of Osteoblast Precursor Cells to Osteocyte-Like Cells. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 288	5.8	14
268	Facilitated osteogenic differentiation of mouse pre-osteoblast cells in three-dimensional tissue engineered constructs. <i>The Proceedings of the JSME Conference on Frontiers in Bioengineering</i> , 2019 , 2019.30, 2A24	0	

- 267 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
- 266 Induction of cell orientation in cell sheets using adhesion limiting substrates.. *The Proceedings of Mechanical Engineering Congress Japan*, **2019**, 2019, J02802 0
- 265 Combining Turing and 3D vertex models reproduces autonomous multicellular morphogenesis with undulation, tubulation, and branching. *Scientific Reports*, **2018**, 8, 2386 4.9 22
- 264 Real-time TIRF observation of vinculin recruitment to stretched E-catenin by AFM. *Scientific Reports*, **2018**, 8, 1575 4.9 12
- 263 Overview: In Silico Approaches to Understand Bone Adaptation. *Frontiers of Biomechanics*, **2018**, 1-11 0.2
- 262 Comparison of Mechanical Quantities as Bone Remodeling Stimuli. *Frontiers of Biomechanics*, **2018**, 131-144 0.2
- 261 Trabecular Surface Remodeling Simulation of Cancellous Bone Using Image-Based Voxel Finite Element Models. *Frontiers of Biomechanics*, **2018**, 145-161 0.2
- 260 Functional Adaptation of Cancellous Bone in Human Proximal Femur. *Frontiers of Biomechanics*, **2018**, 163-175 0.2
- 259 3D Trabecular Remodeling in Human Proximal Femur: Approach to Understanding Wolff's Law. *Frontiers of Biomechanics*, **2018**, 177-185 0.2
- 258 Trabecular Structural Changes in a Vertebral Body with a Fixation Screw. *Frontiers of Biomechanics*, **2018**, 187-203 0.2
- 257 Microscopic Fluid Flow Analysis in an Osteocyte Canaliculus. *Frontiers of Biomechanics*, **2018**, 13-24 0.2
- 256 Macroscopic Fluid Flow Analysis in a Poroelastic Trabecula. *Frontiers of Biomechanics*, **2018**, 25-44 0.2
- 255 Estimation of Bone Permeability for Poroelastic Analysis. *Frontiers of Biomechanics*, **2018**, 45-63 0.2
- 254 Modeling Trabecular Bone Adaptation Induced by Flow Stimuli to Osteocytes. *Frontiers of Biomechanics*, **2018**, 65-81 0.2
- 253 Effects of Local Bending Load on Trabecular Bone Adaptation. *Frontiers of Biomechanics*, **2018**, 83-90 0.2
- 252 Cancellous Bone Adaptation Predicted by Remodeling Simulations. *Frontiers of Biomechanics*, **2018**, 91-101 0.2
- 251 Trabecular Surface Remodeling Toward Uniform Local Stress State. *Frontiers of Biomechanics*, **2018**, 103-119 0.2
- 250 Spatial and Temporal Regulation of Cancellous Bone Structure by Trabecular Surface Remodeling. *Frontiers of Biomechanics*, **2018**, 121-129 0.2

249	Elasticity-based boosting of neuroepithelial nucleokinesis via indirect energy transfer from mother to daughter. <i>PLoS Biology</i> , 2018 , 16, e2004426	9.7	11
248	Fabrication of orientated myoblast cell sheets by modulating cell-substrate adhesion. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2018 , 2018, J0220102	0	
247	Computational Biomechanics of Bone Adaptation by Remodeling. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2018 , 231-257	0.6	0
246	Strain-triggered mechanical feedback in self-organizing optic-cup morphogenesis. <i>Science Advances</i> , 2018 , 4, eaau1354	14.3	39
245	Hyaluronic acid selective anchoring to the cytoskeleton: An atomic force microscopy study. <i>PLoS ONE</i> , 2018 , 13, e0206056	3.7	3
244	Nano-mechanical characterization of tension-sensitive helix bundles in talin rod. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 484, 372-377	3.4	6
243	Local Stiffness of Osteocyte Using Atomic Force Microscopy. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 5755-5758	1.3	
242	Capturing microscopic features of bone remodeling into a macroscopic model based on biological rationales of bone adaptation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017 , 16, 1697-1708	3.8	6
241	In vitro tubulogenesis of Madin-Darby canine kidney (MDCK) spheroids occurs depending on constituent cell number and scaffold gel concentration. <i>Journal of Theoretical Biology</i> , 2017 , 435, 110-115	2.3	6
240	Synergistic acceleration of experimental tooth movement by supplementary high-frequency vibration applied with a static force in rats. <i>Scientific Reports</i> , 2017 , 7, 13969	4.9	20
239	Mechanical role of the spatial patterns of contractile cells in invagination of growing epithelial tissue. <i>Development Growth and Differentiation</i> , 2017 , 59, 444-454	3	7
238	Mechanical Effects of Cellular Activities During Optic-cup Morphogenesis. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2017 , 2017, J0230104	0	
237	The analysis of nitric oxide production behavior in mouse isolated osteocytes. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2017 , 2017, S0210206	0	
236	Bone Metabolism and Remodeling Simulation at Cancellous Bone Scale. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2017 , 2017, J0230102	0	
235	Computer simulation of orthodontic tooth movement using CT image-based voxel finite element models with the level set method. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016 , 19, 474-83	2.1	8
234	Mechanosensitive kinetic preference of actin-binding protein to actin filament. <i>Physical Review E</i> , 2016 , 93, 042403	2.4	3
233	Spontaneous anterior arch fracture of the atlas following C1 laminectomy without fusion: A report of three cases and finite element analysis. <i>Journal of Orthopaedic Science</i> , 2016 , 21, 306-15	1.6	7
232	Modeling cell apoptosis for simulating three-dimensional multicellular morphogenesis based on a reversible network reconnection framework. <i>Biomechanics and Modeling in Mechanobiology</i> , 2016 , 15, 805-16	3.8	18

231	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. <i>PLoS Genetics</i> , 2016 , 12, e1005802	6	39
230	2H14 Effects of remodeling signals on bone functional adaptation. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2016 , 2016.28, _2H14-1_-_2H14-4_	0	
229	Consideration of the experimental approach to elucidate the morphological change of osteocytes in bone tissue. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2016 , 2016, J0280102	0	
228	2D42 AFM molecular imaging of vinculin-binding to β -catenin. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2016 , 2016.28, _2D42-1_-_2D42-5_	0	
227	Imaging analysis of formation for epithelial cell aggregates due to mechanical environment. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2016 , 2016, S0210102	0	
226	2D21 Simulation of morphological change in epithelial tissue considering feedback between constriction force and shape at cell level. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2016 , 2016.28, _2D21-1_-_2D21-5_	0	
225	2D41 Mechano-adaptive mechanism of β -catenin as a tension-sensory molecule. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2016 , 2016.28, _2D41-1_-_2D41-4_	0	
224	Nanofishing and structural imaging of tension-sensor protein employing atomic force microscopy. <i>The Proceedings of the JSME Conference on Frontiers in Bioengineering</i> , 2016 , 2016.27, A204	0	
223	A Perturbation Analysis to Understand the Mechanism How Migrating Cells Sense and Respond to a Topography in the Extracellular Environment. <i>Analytical Sciences</i> , 2016 , 32, 1207-1211	1.7	1
222	Electrochemical Polymerization of PEDOT/Biomolecule Composite Films on Microelectrodes for the Measurement of Extracellular Field Potential. <i>Electrochemistry</i> , 2016 , 84, 354-357	1.2	3
221	Mechano-adaptive sensory mechanism of β -catenin under tension. <i>Scientific Reports</i> , 2016 , 6, 24878	4.9	39
220	Mechanical roles of apical constriction, cell elongation, and cell migration during neural tube formation in <i>Xenopus</i> . <i>Biomechanics and Modeling in Mechanobiology</i> , 2016 , 15, 1733-1746	3.8	28
219	β -Catenin as a Tension Transmitter Revealed by AFM Nanomechanical Testing. <i>Cellular and Molecular Bioengineering</i> , 2015 , 8, 14-21	3.9	2
218	Finite element formulation and analysis for an arterial wall with residual and active stresses. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015 , 18, 1143-1159	2.1	2
217	Coupling intercellular molecular signalling with multicellular deformation for simulating three-dimensional tissue morphogenesis. <i>Interface Focus</i> , 2015 , 5, 20140095	3.9	15
216	Brownian dynamics simulation study on force-velocity relation in actin-based membrane protrusion. <i>Computational Particle Mechanics</i> , 2015 , 2, 329-337	3	2
215	Three-dimensional vertex model for simulating multicellular morphogenesis. <i>Biophysics and Physicobiology</i> , 2015 , 12, 13-20	1.4	34
214	Procedures for the quantification of whole-tissue immunofluorescence images obtained at single-cell resolution during murine tubular organ development. <i>PLoS ONE</i> , 2015 , 10, e0135343	3.7	20

213	Vertex dynamics simulations of viscosity-dependent deformation during tissue morphogenesis. <i>Biomechanics and Modeling in Mechanobiology</i> , 2015 , 14, 413-25	3.8	51
212	Multiscale Analysis of Cell Peripheral Motility. <i>Frontiers of Biomechanics</i> , 2015 , 73-86	0.2	
211	Introduction to Actin-Based Cell Migration. <i>Frontiers of Biomechanics</i> , 2015 , 1-10	0.2	
210	Multiscale Mechanochemical Interactions Between Cell Membrane and Actin Filaments. <i>Frontiers of Biomechanics</i> , 2015 , 87-105	0.2	
209	Regulation of Actin Network Dynamics by Actomyosin Contractility. <i>Frontiers of Biomechanics</i> , 2015 , 57-72	0.2	
208	Actin Network Flow and Turnover Are Coupled in Migrating Cells. <i>Frontiers of Biomechanics</i> , 2015 , 27-39	0.2	
207	Actomyosin Contractility Modulates Lamellipodial Protrusion Dynamics on a Micropatterned Substrate. <i>Frontiers of Biomechanics</i> , 2015 , 107-121	0.2	
206	Design Concept of Topographical and Mechanical Properties of Synthetic Extracellular Matrix to Control Cell Functions and Fates Through Actin Cytoskeletal Modulation. <i>Frontiers of Biomechanics</i> , 2015 , 159-186	0.2	1
205	Regulation of Actin Cytoskeleton Dynamics in Migrating Cells. <i>Frontiers of Biomechanics</i> , 2015 , 11-25	0.2	
204	Cell Migration in Engineered Microstructured Surfaces. <i>Frontiers of Biomechanics</i> , 2015 , 139-158	0.2	
203	Cell Migration on Engineered Microstructured Surfaces. <i>Frontiers of Biomechanics</i> , 2015 , 123-138	0.2	
202	Involvement of Mechanical Strain in Actin Network Reorganization. <i>Frontiers of Biomechanics</i> , 2015 , 41-56	0.2	
201	1C11 Unfolding of E-catenin depending on mechanical stability of structural domains. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2015 , 2015.27, 97-98	0	
200	J0220202 AFM interaction measurement for AJ components molecules involving conformational changes. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2015 , 2015, _J0220202--_J0220202-	0	
199	1C41 Influence of spatially patterned mechanical cell activities on the tissue invagination. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2015 , 2015.27, 125-126	0	
198	M710 Force curve analysis method for AFM molecular interaction measurement. <i>The Proceedings of Conference of Kansai Branch</i> , 2015 , 2015.90, 358	0	
197	1C12 Interaction analysis between Wnt antagonists and its receptor by using AFM. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2015 , 2015.27, 99-100	0	
196	2A44 Contribution of Focal Adhesion in Cell Migration on Microstructured Surfaces. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2015 , 2015.27, 337-338	0	

195	J0220201 Fluorescence imaging and morphometry of osteocytes within tissue. <i>The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015, _J0220201--_J0220201-</i>		0	
194	GS4-3 Mechanical roles of E-cadherin for AJ-mediated force transmission(GS4: Molecular Biomechanics). <i>The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2015, 2015.8, 164</i>			
193	M304 Observation of cellular behaviors in morphogenesis of optic vesicle derived from mES cells. <i>The Proceedings of Conference of Kansai Branch, 2015, 2015.90, 298</i>		0	
192	OS5-8 AFM INTERACTION MEASUREMENT BETWEEN WNT SIGNALING MOLECULES AND THEIR RECEPTOR(OS5: Mechanobiology and Tissue Engineering for Disease and Regeneration II). <i>The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2015, 2015.8, 164</i>			
191	J0210204 Influence of the balance between RANKL and OPG expression rates on the functional adaptation capacity of trabeculae. <i>The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015, _J0210204--_J0210204-</i>		0	
190	GS1-11 THE EFFECTS OF DISTRIBUTION OF ADHESION PROTEINS ON SENSING MICROGROOVED STRUCTURE IN MIGRATING CELLS(GS1: Cell and Tissue Biomechanics II). <i>The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2015, 2015.8, 164</i>			
189	J0210105 Mathematical modeling of apical constriction adjustment for maintaining smooth surface of growing epithelial tissue. <i>The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015, _J0210105--_J0210105-</i>		0	
188	Cytokine expression in gingival hyperplasia induced by cyclosporine A in mice. <i>Journal of Oral and Maxillofacial Surgery, 2014, 72, e97-e98</i>		1.8	
187	Single-cell manipulation and DNA delivery technology using atomic force microscopy and nanoneedle. <i>Journal of Nanoscience and Nanotechnology, 2014, 14, 57-70</i>		1.3	10
186	Interstitial fluid flow in canaliculi as a mechanical stimulus for cancellous bone remodeling: in silico validation. <i>Biomechanics and Modeling in Mechanobiology, 2014, 13, 851-60</i>		3.8	21
185	Numerical analysis of arterial contraction regulated by smooth muscle stretch and intracellular calcium ion concentration. <i>Journal of Biomechanical Science and Engineering, 2014, 9, JBSE0002-JBSE0002</i>	0.8		3
184	New simulation model for bone formation markers in osteoporosis patients treated with once-weekly teriparatide. <i>Bone Research, 2014, 2, 14043</i>		13.3	5
183	Modeling trabecular bone adaptation to local bending load regulated by mechanosensing osteocytes. <i>Acta Mechanica, 2014, 225, 2833-2840</i>		2.1	9
182	Topography design concept of a tissue engineering scaffold for controlling cell function and fate through actin cytoskeletal modulation. <i>Tissue Engineering - Part B: Reviews, 2014, 20, 609-27</i>		7.9	43
181	Mechanics-based Simulations for Understanding Multicellular Tissue Morphogenesis. <i>Seibutsu Butsuri, 2014, 54, 031-034</i>		0	5
180	1E11 Energy between cofilin and actin in cofilin-decorated actin filament under tensile force. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 123-124</i>		0	
179	1E12 Influence of mechanical stimulus on mouse ES cell differentiation : Investigation based on mRNA expression levels. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 125-126</i>		0	
178	S0210101 Contribution of Cell Proliferation and Apical Contraction on Epithelial Tissue Deformation Examined by Using a Multi-cellular Dynamics Simulation. <i>The Proceedings of Mechanical Engineering Congress Japan, 2014, 2014, _S0210101--_S0210101-</i>		0	

177	J0270101 Interaction measurement of Wnt signal receptor and its regulators using AFM. <i>The Proceedings of Mechanical Engineering Congress Japan, 2014</i> , 2014, _J0270101--_J0270101-		0
176	2E24 Mechanical properties of cell cortex in mouse leukocyte migration. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014</i> , 2014.26, 449-450		0
175	J0240102 Investigation of conditions of SMD simulation for alpha-helical proteins. <i>The Proceedings of Mechanical Engineering Congress Japan, 2014</i> , 2014, _J0240102--_J0240102-		0
174	Spatiotemporal Properties of a Cell Shape Change Revealed by Multiscale Analysis. <i>Seibutsu Butsuri</i> , 2014, 54, 221-225		0
173	1E21 Analysis of the nanomechanical behaviors of E-catenin under tensile loads. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014</i> , 2014.26, 135-136		0
172	S0210102 Observation of invagination process in multicellular tissue morphogenesis from mES cells. <i>The Proceedings of Mechanical Engineering Congress Japan, 2014</i> , 2014, _S0210102--_S0210102-		0
171	21am2-E3 Role of spatial patterns of apical constricted cells in epithelial tissue deformations. <i>The Proceedings of the Symposium on Micro-Nano Science and Technology, 2014</i> , 2014.6, _21am2-E3--_21am2-E3-		0
170	1F33 Cortical Bone Remodeling Simulation Considering Signaling Systems. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014</i> , 2014.26, 191-192		0
169	Role of the Actin-Myosin Catch Bond on Actomyosin Aggregate Formation. <i>Cellular and Molecular Bioengineering</i> , 2013, 6, 3-12	3.9	1
168	Reversible network reconnection model for simulating large deformation in dynamic tissue morphogenesis. <i>Biomechanics and Modeling in Mechanobiology</i> , 2013, 12, 627-44	3.8	41
167	Apical contractility in growing epithelium supports robust maintenance of smooth curvatures against cell-division-induced mechanical disturbance. <i>Journal of Biomechanics</i> , 2013, 46, 1705-13	2.9	27
166	Three-dimensional modulation of cortical plasticity during pseudopodial protrusion of mouse leukocytes. <i>Biochemical and Biophysical Research Communications</i> , 2013, 438, 594-9	3.4	8
165	Modeling cell proliferation for simulating three-dimensional tissue morphogenesis based on a reversible network reconnection framework. <i>Biomechanics and Modeling in Mechanobiology</i> , 2013, 12, 987-96	3.8	32
164	TAG-1-assisted progenitor elongation streamlines nuclear migration to optimize subapical crowding. <i>Nature Neuroscience</i> , 2013, 16, 1556-66	25.5	69
163	External mechanical cues trigger the establishment of the anterior-posterior axis in early mouse embryos. <i>Developmental Cell</i> , 2013, 27, 131-144	10.2	98
162	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 Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2013, 53, S96		0
161	Real-time monitoring of changes in microtubule mechanical properties in response to microtubule-destabilizing drug treatment. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 2087-90	1.3	0
160	1E07 Study on mechanical behaviors of amino residues in actin filament as a mechano-sensor using molecular dynamics simulation. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2013</i> , 2013.25, 155-156		0

159	J021013 BMU movement analyzed by trabecular and osteonal remodeling simulation. <i>The Proceedings of Mechanical Engineering Congress Japan, 2013</i> , 2013, _J021013-1-_J021013-3		0
158	3D07 In vitro experimental system for observation of cell cycles in optic-cup morphogenesis. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2013</i> , 2013.25, 565-566		0
157	J021011 Energy landscape between adjacent subunits in cofilin-decorated actin filament. <i>The Proceedings of Mechanical Engineering Congress Japan, 2013</i> , 2013, _J021011-1-_J021011-3		0
156	OS0713 Finite element analysis for the morphological change of a vascular sheet induced by its growth. <i>The Proceedings of the Materials and Mechanics Conference, 2013</i> , 2013, _OS0713-1-_OS0713-3_		0
155	Birth of Earth Pressure Balanced shield method and its applications in Japan 2013 , 1235-1242		1
154	Characteristics of motility-based filtering of adherent cells on microgrooved surfaces. <i>Biomaterials</i> , 2012 , 33, 395-401	15.6	20
153	Relaxation-expansion model for self-driven retinal morphogenesis: a hypothesis from the perspective of biosystems dynamics at the multi-cellular level. <i>BioEssays</i> , 2012 , 34, 17-25	4.1	62
152	Microscale fluid flow analysis in a human osteocyte canaliculus using a realistic high-resolution image-based three-dimensional model. <i>Integrative Biology (United Kingdom)</i> , 2012 , 4, 1198-206	3.7	65
151	Spatiotemporal coordinated hierarchical properties of cellular protrusion revealed by multiscale analysis. <i>Integrative Biology (United Kingdom)</i> , 2012 , 4, 875-88	3.7	11
150	Quantitative analysis of extension-torsion coupling of actin filaments. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 420, 710-3	3.4	12
149	Interfacial fatigue crack propagation in microscopic model composite using bifiber shear specimens. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012 , 43, 239-246	8.4	7
148	Multiscale modeling and mechanics of filamentous actin cytoskeleton. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012 , 11, 291-302	3.8	24
147	Roles of heparan sulfate sulfation in dentinogenesis. <i>Journal of Biological Chemistry</i> , 2012 , 287, 12217-29	3.4	29
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