

Taiji Adachi

List of Publications by Year in descending order

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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	Self-organizing optic-cup morphogenesis in three-dimensional culture. <i>Nature</i> , 2011, 472, 51-56.	13.7	1,771
2	Framework for optimal design of porous scaffold microstructure by computational simulation of bone regeneration. <i>Biomaterials</i> , 2006, 27, 3964-3972.	5.7	278
3	Modes I and II interlaminar fracture toughness and fatigue delamination of CF/epoxy laminates with self-same epoxy interleaf. <i>International Journal of Fatigue</i> , 2006, 28, 1154-1165.	2.8	213
4	Trabecular Surface Remodeling Simulation for Cancellous Bone Using Microstructural Voxel Finite Element Models. <i>Journal of Biomechanical Engineering</i> , 2001, 123, 403-409.	0.6	147
5	Evaluation of interfacial strength in CF/epoxies using FEM and in-situ experiments. <i>Composites Part A: Applied Science and Manufacturing</i> , 2006, 37, 2248-2256.	3.8	132
6	Functional adaptation of cancellous bone in human proximal femur predicted by trabecular surface remodeling simulation toward uniform stress state. <i>Journal of Biomechanics</i> , 2002, 35, 1541-1551.	0.9	126
7	Computer simulation of trabecular remodeling in human proximal femur using large-scale voxel FE models: Approach to understanding Wolff's law. <i>Journal of Biomechanics</i> , 2009, 42, 1088-1094.	0.9	125
8	External Mechanical Cues Trigger the Establishment of the Anterior-Posterior Axis in Early Mouse Embryos. <i>Developmental Cell</i> , 2013, 27, 131-144.	3.1	125
9	Calcium response in single osteocytes to locally applied mechanical stimulus: Differences in cell process and cell body. <i>Journal of Biomechanics</i> , 2009, 42, 1989-1995.	0.9	120
10	Effect of fiber array irregularities on microscopic interfacial normal stress states of transversely loaded UD-CFRP from viewpoint of failure initiation. <i>Composites Science and Technology</i> , 2009, 69, 1726-1734.	3.8	111
11	TAG-1â€‘assisted progenitor elongation streamlines nuclear migration to optimize subapical crowding. <i>Nature Neuroscience</i> , 2013, 16, 1556-1566.	7.1	93
12	Inhibition of protein kinase CK2 prevents the progression of glomerulonephritis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 7736-7741.	3.3	82
13	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, 1198-1206.	0.6	76
14	Vertex dynamics simulations of viscosity-dependent deformation during tissue morphogenesis. <i>Biomechanics and Modeling in Mechanobiology</i> , 2015, 14, 413-425.	1.4	76
15	Quantitative evaluation of threshold fiber strain that induces reorganization of cytoskeletal actin fiber structure in osteoblastic cells. <i>Journal of Biomechanics</i> , 2005, 38, 1895-1901.	0.9	75
16	Relaxationâ€‘expansion model for selfâ€‘driven retinal morphogenesis. <i>BioEssays</i> , 2012, 34, 17-25.	1.2	72
17	Strain-triggered mechanical feedback in self-organizing optic-cup morphogenesis. <i>Science Advances</i> , 2018, 4, eaau1354.	4.7	69
18	Osteocyte calcium signaling response to bone matrix deformation. <i>Journal of Biomechanics</i> , 2009, 42, 2507-2512.	0.9	68

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19	Topography Design Concept of a Tissue Engineering Scaffold for Controlling Cell Function and Fate Through Actin Cytoskeletal Modulation. <i>Tissue Engineering - Part B: Reviews</i> , 2014, 20, 609-627.	2.5	63
20	In vitro bone-like nodules generated from patient-derived iPSCs recapitulate pathological bone phenotypes. <i>Nature Biomedical Engineering</i> , 2019, 3, 558-570.	11.6	57
21	Simulation of Trabecular Surface Remodeling based on Local Stress Nonuniformity.. <i>JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing</i> , 1997, 40, 782-792.	0.3	55
22	Mechano-adaptive sensory mechanism of β -catenin under tension. <i>Scientific Reports</i> , 2016, 6, 24878.	1.6	55
23	Trabecular bone remodelling simulation considering osteocytic response to fluid-induced shear stress. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 2669-2682.	1.6	53
24	Reversible network reconnection model for simulating large deformation in dynamic tissue morphogenesis. <i>Biomechanics and Modeling in Mechanobiology</i> , 2013, 12, 627-644.	1.4	53
25	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.	1.5	51
26	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.	1.4	50
27	Mechanotransduction via the Piezo1-Akt pathway underlies Sost suppression in osteocytes. <i>Biochemical and Biophysical Research Communications</i> , 2020, 521, 806-813.	1.0	50
28	Transient response of fluid pressure in a poroelastic material under uniaxial cyclic loading. <i>Journal of the Mechanics and Physics of Solids</i> , 2008, 56, 1794-1805.	2.3	49
29	Three-dimensional vertex model for simulating multicellular morphogenesis. <i>Biophysics and Physicobiology</i> , 2015, 12, 13-20.	0.5	48
30	Effect of tensile force on the mechanical behavior of actin filaments. <i>Journal of Biomechanics</i> , 2011, 44, 1776-1781.	0.9	46
31	Actomyosin contractility spatiotemporally regulates actin network dynamics in migrating cells. <i>Journal of Biomechanics</i> , 2009, 42, 2540-2548.	0.9	44
32	Combining Turing and 3D vertex models reproduces autonomous multicellular morphogenesis with undulation, tubulation, and branching. <i>Scientific Reports</i> , 2018, 8, 2386.	1.6	44
33	Measurement of local strain on cell membrane at initiation point of calcium signaling response to applied mechanical stimulus in osteoblastic cells. <i>Journal of Biomechanics</i> , 2007, 40, 1246-1255.	0.9	43
34	Mode I fatigue delamination of Zanchor-reinforced CF/epoxy laminates. <i>International Journal of Fatigue</i> , 2010, 32, 37-45.	2.8	42
35	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, 987-996.	1.4	42
36	Directional dependence of osteoblastic calcium response to mechanical stimuli. <i>Biomechanics and Modeling in Mechanobiology</i> , 2003, 2, 73-82.	1.4	38

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37	Mode I type delamination fracture toughness of YBCO coated conductor with additional Cu layer. <i>Physica C: Superconductivity and Its Applications</i> , 2011, 471, 1071-1074.	0.6	38
38	Global distribution of intense lightning discharges and their seasonal variations. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 234011.	1.3	37
39	Effects of loading frequency on the functional adaptation of trabeculae predicted by bone remodeling simulation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011, 4, 900-908.	1.5	37
40	Fluid pressure response in poroelastic materials subjected to cyclic loading. <i>Journal of the Mechanics and Physics of Solids</i> , 2009, 57, 1815-1827.	2.3	36
41	Control of highly migratory cells by microstructured surface based on transient change in cell behavior. <i>Biomaterials</i> , 2010, 31, 8539-8545.	5.7	36
42	Roles of Heparan Sulfate Sulfation in Dentinogenesis. <i>Journal of Biological Chemistry</i> , 2012, 287, 12217-12229.	1.6	36
43	Cell Condensation Triggers the Differentiation of Osteoblast Precursor Cells to Osteocyte-Like Cells. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 288.	2.0	36
44	Estimation of bone permeability considering the morphology of lacuno-canalicular porosity. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2010, 3, 240-248.	1.5	34
45	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.	1.6	34
46	Forceful mastication activates osteocytes and builds a stout jawbone. <i>Scientific Reports</i> , 2019, 9, 4404.	1.6	34
47	In silico experiments of bone remodeling explore metabolic diseases and their drug treatment. <i>Science Advances</i> , 2020, 6, eaax0938.	4.7	34
48	Spatial and temporal regulation of cancellous bone structure: characterization of a rate equation of trabecular surface remodeling. <i>Medical Engineering and Physics</i> , 2005, 27, 305-311.	0.8	31
49	Asymmetric intercellular communication between bone cells: Propagation of the calcium signaling. <i>Biochemical and Biophysical Research Communications</i> , 2009, 389, 495-500.	1.0	31
50	Strain field in actin filament network in lamellipodia of migrating cells: Implication for network reorganization. <i>Journal of Biomechanics</i> , 2009, 42, 297-302.	0.9	30
51	Evaluation of extensional and torsional stiffness of single actin filaments by molecular dynamics analysis. <i>Journal of Biomechanics</i> , 2010, 43, 3162-3167.	0.9	30
52	Apical contractility in growing epithelium supports robust maintenance of smooth curvatures against cell-division-induced mechanical disturbance. <i>Journal of Biomechanics</i> , 2013, 46, 1705-1713.	0.9	30
53	Multiscale modeling and mechanics of filamentous actin cytoskeleton. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012, 11, 291-302.	1.4	29
54	Two-Dimensional Quantitative Analysis of Preferential Alignment of BAp c-axis for Isolated Human Trabecular Bone Using Microbeam X-ray Diffractometer with a Transmission Optical System. <i>Materials Transactions</i> , 2007, 48, 343-347.	0.4	28

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55	Uniform Stress State in Bone Structure With Residual Stress. <i>Journal of Biomechanical Engineering</i> , 1998, 120, 342-347.	0.6	27
56	Effects of a Fixation Screw on Trabecular Structural Changes in a Vertebral Body Predicted by Remodeling Simulation. <i>Annals of Biomedical Engineering</i> , 2003, 31, 733-740.	1.3	27
57	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.	1.1	27
58	Computational simulation of deformation behavior of 2D-lattice continuum. <i>International Journal of Mechanical Sciences</i> , 1998, 40, 857-866.	3.6	26
59	Interstitial fluid flow in canaliculi as a mechanical stimulus for cancellous bone remodeling: in silico validation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2014, 13, 851-860.	1.4	25
60	Electron energy loss spectroscopy studies of the SiO ₂ interface. <i>Applied Physics Letters</i> , 1979, 35, 199-201.	1.5	24
61	Computational simulation of three-dimensional neck propagation in polymeric specimens under tension and hybrid identification of constitutive equation. <i>International Journal of Mechanical Sciences</i> , 1997, 39, 913-923.	3.6	22
62	Effectiveness of scaffolds with pre-seeded mesenchymal stem cells in bone regeneration – Assessment of osteogenic ability of scaffolds implanted under the periosteum of the cranial bone of rats. <i>Dental Materials Journal</i> , 2010, 29, 673-681.	0.8	22
63	A Novel Method for Measuring Tension Generated in Stress Fibers by Applying External Forces. <i>Biophysical Journal</i> , 2011, 101, 53-60.	0.2	22
64	Characteristics of motility-based filtering of adherent cells on microgrooved surfaces. <i>Biomaterials</i> , 2012, 33, 395-401.	5.7	22
65	Real-time TIRF observation of vinculin recruitment to stretched β -catenin by AFM. <i>Scientific Reports</i> , 2018, 8, 1575.	1.6	21
66	Elasticity-based boosting of neuroepithelial nucleokinesis via indirect energy transfer from mother to daughter. <i>PLoS Biology</i> , 2018, 16, e2004426.	2.6	21
67	Local Disassembly of Actin Stress Fibers Induced by Selected Release of Intracellular Tension in Osteoblastic Cell. <i>Journal of Biomechanical Science and Engineering</i> , 2006, 1, 204-214.	0.1	20
68	Intrauterine Pressures Adjusted by Reichert's Membrane Are Crucial for Early Mouse Morphogenesis. <i>Cell Reports</i> , 2020, 31, 107637.	2.9	20
69	Analysis of mesoscopic stress states with delamination and their relation to critical current under bending deformation in Bi2223/Ag superconducting composite tapes. <i>Superconductor Science and Technology</i> , 2005, 18, S356-S363.	1.8	19
70	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, 805-816.	1.4	19
71	Polarized cellular mechanoresponse system for maintaining radial size in developing epithelial tubes. <i>Development (Cambridge)</i> , 2019, 146, .	1.2	19
72	Cell-fate decision of mesenchymal stem cells toward osteocyte differentiation is committed by spheroid culture. <i>Scientific Reports</i> , 2021, 11, 13204.	1.6	19

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73	Simulation Study on Local and Integral Mechanical Quantities at Single Trabecular Level as Candidates of Remodeling Stimuli. <i>Journal of Biomechanical Science and Engineering</i> , 2006, 1, 124-135.	0.1	18
74	Coupling intercellular molecular signalling with multicellular deformation for simulating three-dimensional tissue morphogenesis. <i>Interface Focus</i> , 2015, 5, 20140095.	1.5	17
75	Advances in Experiments and Modeling in Micro- and Nano-Biomechanics: A Mini Review. <i>Cellular and Molecular Bioengineering</i> , 2011, 4, 327-339.	1.0	16
76	Modeling myosin-dependent rearrangement and force generation in an actomyosin network. <i>Journal of Theoretical Biology</i> , 2011, 281, 65-73.	0.8	16
77	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, 306-315.	0.5	16
78	Electrical Conductivity of Molten Charge-Asymmetric Salts: , , and Systems. <i>Journal of the Electrochemical Society</i> , 1986, 133, 1162-1166.	1.3	15
79	Changes in the Fabric and Compliance Tensors of Cancellous Bone due to Trabecular Surface Remodeling, Predicted by a Digital Image-based Model. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2004, 7, 187-192.	0.9	15
80	Coupling between axial stretch and bending/twisting deformation of actin filaments caused by a mismatched centroid from the center axis. <i>International Journal of Mechanical Sciences</i> , 2010, 52, 329-333.	3.6	14
81	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.	0.6	14
82	Simultaneous observation of calcium signaling response and membrane deformation due to localized mechanical stimulus in single osteoblast-like cells. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2008, 1, 43-50.	1.5	13
83	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.	1.1	13
84	Three-Dimensional Lattice Continuum Model of Cancellous Bone for Structural and Remodeling Simulation.. <i>JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing</i> , 1999, 42, 470-480.	0.3	12
85	Regulatory relationship between tactile sensation at the vermilion of the lips and lip-closing force. <i>Journal of Oral Rehabilitation</i> , 2011, 38, 579-587.	1.3	12
86	Quantitative analysis of extension-torsion coupling of actin filaments. <i>Biochemical and Biophysical Research Communications</i> , 2012, 420, 710-713.	1.0	12
87	Modeling trabecular bone adaptation to local bending load regulated by mechanosensing osteocytes. <i>Acta Mechanica</i> , 2014, 225, 2833-2840.	1.1	12
88	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.	1.4	12
89	Effect of fatigue loading on critical current in stainless steel-laminated DI-BSCCO superconducting composite tape. <i>Physica C: Superconductivity and Its Applications</i> , 2010, 470, 1373-1376.	0.6	11
90	Asymmetric lip-closing forces in children with repaired unilateral cleft lip and/or palate. <i>Journal of Oral Rehabilitation</i> , 2011, 38, 921-928.	1.3	11

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91	Spatiotemporal coordinated hierarchical properties of cellular protrusion revealed by multiscale analysis. <i>Integrative Biology (United Kingdom)</i> , 2012, 4, 875-888.	0.6	11
92	Single-Cell Manipulation and DNA Delivery Technology Using Atomic Force Microscopy and Nanoneedle. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 57-70.	0.9	11
93	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, 474-483.	0.9	11
94	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.	1.4	10
95	Epithelial tissue folding pattern in confined geometry. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 815-822.	1.4	10
96	Mechanical Regulation of Actin Network Dynamics in Migrating Cells. <i>Journal of Biomechanical Science and Engineering</i> , 2010, 5, 186-207.	0.1	9
97	Simulations of dynamics of actin filaments by remodeling them in shearflows. <i>Computers in Biology and Medicine</i> , 2010, 40, 876-882.	3.9	9
98	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.	3.8	9
99	In vitro tubulogenesis of Madinâ€“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.	0.8	9
100	Modulation of <i>Sost</i> Gene Expression Under Hypoxia in Three-Dimensional Scaffold-Free Osteocytic Tissue. <i>Tissue Engineering - Part A</i> , 2021, 27, 1037-1043.	1.6	9
101	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> , 2022, 37, 78-88.	1.2	9
102	Investigation of mechanical behavior of copper in Nb3Sn superconducting composite wire. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 412-414, 1261-1266.	0.6	8
103	Dynamic coupling between actin network flow and turnover revealed by flow mapping in the lamella of crawling fragments. <i>Biochemical and Biophysical Research Communications</i> , 2009, 390, 797-802.	1.0	8
104	Coarse-grained Brownian ratchet model of membrane protrusion on cellular scale. <i>Biomechanics and Modeling in Mechanobiology</i> , 2011, 10, 495-503.	1.4	8
105	Three-dimensional modulation of cortical plasticity during pseudopodial protrusion of mouse leukocytes. <i>Biochemical and Biophysical Research Communications</i> , 2013, 438, 594-599.	1.0	8
106	New simulation model for bone formation markers in osteoporosis patients treated with once-weekly teriparatide. <i>Bone Research</i> , 2014, 2, 14043.	5.4	8
107	Theoretical concept of cortical to cancellous bone transformation. <i>Bone Reports</i> , 2020, 12, 100260.	0.2	8
108	In situ observation of interfacial crack propagation in GF/epoxy model composite using bifiber specimens in mode I and mode II loading. <i>Composites Science and Technology</i> , 2008, 68, 2678-2689.	3.8	7

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109	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.	1.5	7
110	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.	0.1	7
111	Coarse-grained modeling and simulation of actin filament behavior based on Brownian dynamics method. <i>MCB Molecular and Cellular Biomechanics</i> , 2009, 6, 161-73.	0.3	7
112	Breeding of four-leaf white clover (<i>Trifolium repens</i> L.) through ⁶⁰ Co gamma-ray irradiation. <i>Plant Biotechnology Reports</i> , 2009, 3, 191-197.	0.9	6
113	Change in fatigue property and its relation to critical current for YBCO coated conductor with additional Cu layer. <i>Physica C: Superconductivity and Its Applications</i> , 2009, 469, 1476-1479.	0.6	6
114	Nano-mechanical characterization of tension-sensitive helix bundles in talin rod. <i>Biochemical and Biophysical Research Communications</i> , 2017, 484, 372-377.	1.0	6
115	Hyaluronic acid selective anchoring to the cytoskeleton: An atomic force microscopy study. <i>PLoS ONE</i> , 2018, 13, e0206056.	1.1	6
116	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.	1.0	6
117	An energy landscape approach to understanding variety and robustness in tissue morphogenesis. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 471-479.	1.4	6
118	Uniaxially fixed mechanical boundary condition elicits cellular alignment in collagen matrix with induction of osteogenesis. <i>Scientific Reports</i> , 2021, 11, 9009.	1.6	6
119	Preliminary Study on Mechanical Bone Remodeling Permitting Residual Stress. <i>JSME International Journal Series A-Solid Mechanics and Material Engineering</i> , 1994, 37, 87-95.	0.1	5
120	Computational prediction of instability propagation in glassy polymers. <i>Archives of Computational Methods in Engineering</i> , 1998, 5, 167-198.	6.0	5
121	Î²-Catenin as a Tension Transmitter Revealed by AFM Nanomechanical Testing. <i>Cellular and Molecular Bioengineering</i> , 2015, 8, 14-21.	1.0	5
122	Mobility of Molecular Motors Regulates Contractile Behaviors of Actin Networks. <i>Biophysical Journal</i> , 2019, 116, 2161-2171.	0.2	5
123	Mechanics-based Simulations for Understanding Multicellular Tissue Morphogenesis. <i>Seibutsu Butsuri</i> , 2014, 54, 031-034.	0.0	5
124	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.	1.5	5
125	Effect of Actin Filament on Deformation-Induced Ca ²⁺ Response in Osteoblast-Like Cells. <i>JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing</i> , 2001, 44, 914-919.	0.3	4
126	Quantitative evaluation of strain field in the lamella region of cellular fragments from fish keratocytes. <i>Journal of Biomechanics</i> , 2006, 39, S244.	0.9	4

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127	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.	3.3	4
128	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.	1.1	4
129	Lattice Continuum Model for Bone Remodeling Considering Microstructural Optimality of Trabecular Architecture. , 1999, , 43-54.		3
130	Observation of chondrocyte aggregate formation and internal structure on micropatterned fibroin-coated surface. <i>Bio-Medical Materials and Engineering</i> , 2010, 20, 55-63.	0.4	3
131	Effect of Actomyosin Contractility on Lamellipodial Protrusion Dynamics on a Micropatterned Substrate. <i>Cellular and Molecular Bioengineering</i> , 2011, 4, 389-398.	1.0	3
132	Numerical analysis of arterial contraction regulated by smooth muscle stretch and intracellular calcium ion concentration. <i>Journal of Biomechanical Science and Engineering</i> , 2014, 9, JBSE0002-JBSE0002.	0.1	3
133	Probing Actin Filament and Binding Protein Interaction Using an Atomic Force Microscopy. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 5654-5657.	0.9	3
134	Electrochemical Polymerization of PEDOT/Biomolecule Composite Films on Microelectrodes for the Measurement of Extracellular Field Potential. <i>Electrochemistry</i> , 2016, 84, 354-357.	0.6	3
135	Mechanosensitive kinetic preference of actin-binding protein to actin filament. <i>Physical Review E</i> , 2016, 93, 042403.	0.8	3
136	Continuum modeling for neuronal lamination during cerebral morphogenesis considering cell migration and tissue growth. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021, 24, 799-805.	0.9	3
137	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.	1.2	3
138	Computational Design and Simulation of Tissue Engineering Scaffolds. , 2008, , 113-127.		3
139	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.	2.5	3
140	Preliminary Study on Mechanical Bone Remodeling Permitting Residual Stress.. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 1992, 58, 1022-1029.	0.2	2
141	Shape Optimization Based on Traction Method Using voxel-FEM. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2004, 70, 426-433.	0.2	2
142	Influence of delamination location on mesoscopic stress state and critical current under bending deformation in Bi2223/Ag superconducting composite tapes. <i>Physica C: Superconductivity and Its Applications</i> , 2005, 426-431, 1205-1210.	0.6	2
143	Direct measurement of mechanical properties of Bi2223 filament using Ag alloy removed tape. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 463-465, 863-866.	0.6	2
144	Continuum dynamics on a vector bundle for a directed medium. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 325209.	0.7	2

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145	Brownian dynamics simulation study on force-velocity relation in actin-based membrane protrusion. Computational Particle Mechanics, 2015, 2, 329-337.	1.5	2
146	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
147	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
148	Finite Element Method for Elastic Cosserat Continuum and Its Application to Deformation Behavior of Materials with Microstructure.. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 1994, 60, 191-197.	0.2	1
149	Mechanical Remodeling of Bone with Tissue Structure Considering Residual Stress.. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 1994, 60, 2921-2927.	0.2	1
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