Hideaki Fujita

List of Publications by Year
in descending order

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88	2,802	172457	189892
papers	citations	29 h-index	50 g-index

91	91	91	3716
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Calcium-dependent molecular spring elements in the giant protein titin. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 13716-13721.	7.1	352
2	Accelerated de novo sarcomere assembly by electric pulse stimulation in C2C12 myotubes. Experimental Cell Research, 2007, 313, 1853-1865.	2.6	203
3	Contractile C₂C₁₂myotube model for studying exercise-inducible responses in skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2008, 295, E1191-E1204.	3.5	198
4	Alignment of skeletal muscle myoblasts and myotubes using linear micropatterned surfaces ground with abrasives. Biotechnology and Bioengineering, 2009, 103, 631-638.	3.3	95
5	Induction of functional tissue-engineered skeletal muscle constructs by defined electrical stimulation. Scientific Reports, 2014, 4, 4781.	3.3	95
6	Preparation of artificial skeletal muscle tissues by a magnetic force-based tissue engineering technique. Journal of Bioscience and Bioengineering, 2009, 108, 538-543.	2.2	88
7	Visualizing Cell State Transition Using Raman Spectroscopy. PLoS ONE, 2014, 9, e84478.	2.5	85
8	Design and development of genetically encoded fluorescent sensors to monitor intracellular chemical and physical parameters. Biophysical Reviews, 2016, 8, 121-138.	3.2	81
9	Functional Evaluation of Artificial Skeletal Muscle Tissue Constructs Fabricated by a Magnetic Force-Based Tissue Engineering Technique. Tissue Engineering - Part A, 2011, 17, 107-114.	3.1	71
10	Non-label immune cell state prediction using Raman spectroscopy. Scientific Reports, 2016, 6, 37562.	3.3	63
11	Raman spectral signature reflects transcriptomic features of antibiotic resistance in Escherichia coli. Communications Biology, 2018, 1, 85.	4.4	62
12	Structural and functional reconstitution of thin filaments in the contractile apparatus of cardiac muscle. Biophysical Journal, 1996, 71, 2307-2318.	0.5	57
13	Identification of Three Distinct Functional Sites of Insulin-mediated GLUT4 Trafficking in Adipocytes Using Quantitative Single Molecule Imaging. Molecular Biology of the Cell, 2010, 21, 2721-2731.	2.1	52
14	Elementary Steps of the Cross-Bridge Cycle in Bovine Myocardium with and without Regulatory Proteins. Biophysical Journal, 2002, 82, 915-928.	0.5	50
15	Oxygen plasmaâ€treated thermoresponsive polymer surfaces for cell sheet engineering. Biotechnology and Bioengineering, 2010, 106, 303-310.	3.3	50
16	Heart extracellular matrix supports cardiomyocyte differentiation of mouse embryonic stem cells. Journal of Bioscience and Bioengineering, 2013, 115, 320-325.	2.2	50
17	Spontaneous Oscillatory Contraction without Regulatory Proteins in Actin Filament-Reconstituted Fibers. Biophysical Journal, 1998, 75, 1439-1445.	0.5	46
18	Titin isoform-dependent effect of calcium on passive myocardial tension. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H2528-H2534.	3.2	46

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19	Regulatory roles of MgADP and calcium in tension development of skinned cardiac muscle. Journal of Muscle Research and Cell Motility, 1998, 19, 909-921.	2.0	44
20	Dependence of fluorescent protein brightness on protein concentration in solution and enhancement of it. Scientific Reports, 2016, 6, 22342.	3.3	44
21	Evaluation of serumâ€free differentiation conditions for C2C12 myoblast cells assessed as to active tension generation capability. Biotechnology and Bioengineering, 2010, 107, 894-901.	3.3	40
22	Spontaneous tension oscillation in skinned bovine cardiac muscle. Pflugers Archiv European Journal of Physiology, 1996, 433, 1-8.	2.8	39
23	Novel method for fabrication of skeletal muscle construct from the C2C12 myoblast cell line using serumâ€free medium AIMâ€V. Biotechnology and Bioengineering, 2009, 103, 1034-1041.	3.3	36
24	Designing of a Si-MEMS device with an integrated skeletal muscle cell-based bio-actuator. Biomedical Microdevices, 2011, 13, 123-129.	2.8	35
25	Application of a cell sheetâ€“polymer film complex with temperature sensitivity for increased mechanical strength and cell alignment capability. Biotechnology and Bioengineering, 2009, 103, 370-377.	3.3	34
26	Assembly of skeletal muscle cells on a Si-MEMS device and their generative force measurement. Biomedical Microdevices, 2010, 12, 247-252.	2.8	33
27	Culturing of mouse and human cells on soft substrates promote the expression of stem cell markers. Journal of Bioscience and Bioengineering, 2014, 117, 749-755.	2.2	32
28	Auto-oscillations of Skinned Myocardium Correlating with Heartbeat. Journal of Muscle Research and Cell Motility, 2005, 26, 93-101.	2.0	31
29	Micropatterning of single myotubes on a thermoresponsive culture surface using elastic stencil membranes for single-cell analysis. Journal of Bioscience and Bioengineering, 2010, 109, 174-178.	2.2	29
30	Novel method for measuring active tension generation by C2C12 myotube using UVâ€crosslinked collagen film. Biotechnology and Bioengineering, 2010, 106, 482-489.	3.3	29
31	Temperature effect on isometric tension is mediated by regulatory proteins tropomyosin and troponin in bovine myocardium. Journal of Physiology, 2002, 539, 267-276.	2.9	28
32	The effect of tropomyosin on force and elementary steps of the cross-bridge cycle in reconstituted bovine myocardium. Journal of Physiology, 2004, 556, 637-649.	2.9	28
33	Substrate Stiffness Influences Doxorubicin-Induced p53 Activation via ROCK2 Expression. BioMed Research International, 2017, 2017, 1-10.	1.9	26
34	Eurotium Cristatum Fermented Okara as a Potential Food Ingredient to Combat Diabetes. Scientific Reports, 2019, 9, 17536.	3.3	26
35	Particle Simulation of Oxidation Induced Band 3 Clustering in Human Erythrocytes. PLoS Computational Biology, 2015, 11, e1004210.	3.2	25
36	p130Cas-dependent actin remodelling regulates myogenic differentiation. Biochemical Journal, 2012, 445, 323-332.	3.7	24

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37	Fabrication of scaffold-free contractile skeletal muscle tissue using magnetite-incorporated myogenic C2C12 cells. Journal of Tissue Engineering and Regenerative Medicine, 2010, 4, n/a-n/a.	2.7	23
38	Glycine Insertion Makes Yellow Fluorescent Protein Sensitive to Hydrostatic Pressure. PLoS ONE, 2013, 8, e73212.	2.5	22
39	Displacement of p130Cas from focal adhesions links actomyosin contraction to cell migration. Journal of Cell Science, 2014, 127, 3440-50.	2.0	22
40	Comprehensive chemical secretory measurement of single cells trapped in a micro-droplet array with mass spectrometry. RSC Advances, 2015, 5, 16968-16971.	3.6	22
41	Fluid driving system for a micropump by differentiating iPS cells into cardiomyocytes on a tent-like structure. Sensors and Actuators B: Chemical, 2015, 210, 267-272.	7.8	22
42	A New Muscle Contractile System Composed of a Thick Filament Lattice and a Single Actin Filament. Biophysical Journal, 2005, 89, 321-328.	0.5	21
43	Evaluation systems of generated forces of skeletal muscle cell-based bio-actuators. Journal of Bioscience and Bioengineering, 2013, 115, 115-121.	2.2	21
44	Visualizing the appearance and disappearance of the attractor of differentiation using Raman spectral imaging. Scientific Reports, 2015, 5, 11358.	3.3	19
45	Tropomyosin Modulates pH Dependence of Isometric Tension. Biophysical Journal, 1999, 77, 1540-1546.	0.5	17
46	Engineering strain-sensitive yellow fluorescent protein. Chemical Communications, 2012, 48, 7871.	4.1	17
47	Four-Dimensional Spatial Nanometry of Single Particles in Living Cells Using Polarized Quantum Rods. Biophysical Journal, 2013, 105, 555-564.	0.5	16
48	Linking substrate and nucleus via actin cytoskeleton in pluripotency maintenance of mouse embryonic stem cells. Stem Cell Research, 2019, 41, 101614.	0.7	16
49	Rapid decrease in active tension generated by C2C12 myotubes after termination of artificial exercise. Journal of Muscle Research and Cell Motility, 2010, 31, 279-288.	2.0	15
50	<scp>SH</scp>3 domain of câ€Src governs its dynamics at focal adhesions and the cell membrane. FEBS Journal, 2015, 282, 4034-4055.	4.7	15
51	Full control of polarization state with a pair of electro-optic modulators for polarization-resolved optical microscopy. Applied Optics, 2016, 55, 1082.	2.1	15
52	Raman spectroscopy as a tool for ecology and evolution. Journal of the Royal Society Interface, 2017, 14, 20170174.	3.4	14
53	Protein expression guided chemical profiling of living cells by the simultaneous observation of Raman scattering and anti-Stokes fluorescence emission. Scientific Reports, 2017, 7, 43569.	3.3	13
54	Nano-scale measurement of biomolecules by optical microscopy and semiconductor nanoparticles. Frontiers in Physiology, 2014, 5, 273.	2.8	12

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55	Substrate rigidity-dependent positive feedback regulation between YAP and ROCK2. Cell Adhesion and Migration, 2018, 12, 00-00.	2.7	12
56	Enhancement of C2C12 differentiation by perfluorocarbon-mediated oxygen delivery. Journal of Bioscience and Bioengineering, 2010, 110, 359-362.	2.2	11
57	Single cell analysis reveals a biophysical aspect of collective cell-state transition in embryonic stem cell differentiation. Scientific Reports, 2018, 8, 11965.	3.3	11
58	The use of a genetically encoded molecular crowding sensor in various biological phenomena. Biophysics and Physicobiology, 2017, 14, 119-125.	1.0	10
59	Effect of hydrogen peroxide concentration on the maintenance and differentiation of cultured skeletal muscle cells. Journal of Bioscience and Bioengineering, 2021, 131, 572-578.	2.2	9
60	Simultaneous nano-tracking of multiple motor proteins via spectral discrimination of quantum dots. Biomedical Optics Express, 2016, 7, 2475.	2.9	8
61	Cell type discrimination based on image features of molecular component distribution. Scientific Reports, 2018, 8, 11726.	3.3	8
62	Contractile Properties of Thin (Actin) Filament-Reconstituted Muscle Fibers. Advances in Experimental Medicine and Biology, 1998, 453, 319-329.	1.6	8
63	Metabolic flux analysis of genetically engineered Saccharomyces cerevisiae that produces lactate under micro-aerobic conditions. Bioprocess and Biosystems Engineering, 2013, 36, 1261-1265.	3.4	7
64	Gene dynamics of core transcription factors for pluripotency in embryonic stem cells. Journal of Bioscience and Bioengineering, 2015, 119, 406-409.	2.2	7
65	Chromatin plasticity as a differentiation index during muscle differentiation of C2C12 myoblasts. Biochemical and Biophysical Research Communications, 2012, 418, 742-747.	2.1	6
66	Theoretical modeling reveals that regulatory T cells increase T-cell interaction with antigen-presenting cells for stable immune tolerance. International Immunology, 2019, 31, 743-753.	4.0	6
67	Length Regulation of Thin Filaments without Nebulin.. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 1994, 70, 151-156.	3.8	5
68	The Length of Cooperative Units on the Thin Filament in Rabbit Psoas Muscle Fibres. Experimental Physiology, 2002, 87, 691-697.	2.0	5
69	Effect of cell-extracellular matrix interaction on myogenic characteristics and artificial skeletal muscle tissue. Journal of Bioscience and Bioengineering, 2020, 130, 98-105.	2.2	5
70	A novel câ€šSrc recruitment pathway from the cytosol to focal adhesions. FEBS Letters, 2017, 591, 1940-1946.	2.8	4
71	Bright Dots and Smart Optical Microscopy to Probe Intracellular Events in Single Cells. Frontiers in Bioengineering and Biotechnology, 2018, 6, 204.	4.1	4
72	Pressure-induced changes on the morphology and gene expression in mammalian cells. Biology Open, 2021, 10, .	1.2	4

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73	Myosin light chain 2 modulates MgADPâ€induced contraction in rabbit skeletal and bovine cardiac skinned muscle. Journal of Physiology, 2002, 542, 221-229.	2.9	3
74	Fed-batch system for cultivating genetically engineered yeast that produces lactic acid via the fermentative promoter. Journal of Bioscience and Bioengineering, 2013, 115, 193-195.	2.2	3
75	Design and fabrication of devices for investigating cell-sheet stretch. Biochip Journal, 2017, 11, 173-179.	4.9	3
76	Microarray profiling of gene expression in C2C12 myotubes trained by electric pulse stimulation. Journal of Bioscience and Bioengineering, 2021, 132, 417-422.	2.2	3
77	Recent advances in animal cell technologies for industrial and medical applications. Journal of Bioscience and Bioengineering, 2022, 133, 509-514.	2.2	3
78	Cell and Molecular Mechanics in Health and Disease. BioMed Research International, 2017, 2017, 1-2.	1.9	2
79	Bio-Nanomuscle Project: Contractile Properties of Single Actin Filaments in an A-Band Motility Assay System. Advances in Experimental Medicine and Biology, 2003, 538, 103-110.	1.6	2
80	Thin Filament-Reconstituted Skinned Muscle Fibers for the Study of Muscle Physiology. Journal of Biomedicine and Biotechnology, 2011, 2011, 1-7.	3.0	1
81	Activation probability of a single naÃ¯ve T cell upon TCR ligation is controlled by T cells interacting with the same antigenâ€presenting cell. FEBS Letters, 2021, 595, 1512-1524.	2.8	1
82	Glycine insertion modulates the fluorescence properties of Aequorea victoria green fluorescent protein and its variants in their ambient environment. Biophysics and Physicobiology, 2021, 18, 145-158.	1.0	1
83	Distinct Modulated Pupil Function System for Real-Time Imaging of Living Cells. PLoS ONE, 2012, 7, e44028.	2.5	0
84	3P289 Intracellular measurement of protein-crowding condition by a gene-encoded indicator(27.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.1	0
85	2P307 Glycine-inserted mutant Forster resonance energy transfer (FRET) fluorescent protein to evaluate intracellular crowding(27. Bioimaging,Poster,The 52nd Annual Meeting of the Biophysical) Tj ETQq1 1 0.784314 rgBT /Overlock	0.1	0
86	Use of Raman Spectrum from Cells to Evaluate Genetic Cardiomyopathy. Biophysical Journal, 2020, 118, 471a.	0.5	0
87	Displacement of p130Cas from focal adhesions links actomyosin contraction to cell migration. Development (Cambridge), 2014, 141, e1704-e1704.	2.5	0
88	Non-label bioimaging utilizing scattering lights. , 2017, , .		0