Katsuko S Furukawa

List of Publications by Year
in descending order

68 papers	804 citations	623574 14 h-index	501076 28 g-index
68 all docs	68 docs citations	68 times ranked	1234 citing authors

#	Article	IF	Citations
1	Application of Detergents or High Hydrostatic Pressure as Decellularization Processes in Uterine Tissues and Their Subsequent Effects on In Vivo Uterine Regeneration in Murine Models. PLoS ONE, 2014, 9, e103201.	1.1	112
2	Bone regeneration in calvarial defects in a rat model by implantation of human bone marrow-derived mesenchymal stromal cell spheroids. Journal of Materials Science: Materials in Medicine, 2015, 26, 254.	1.7	78
3	Rapid and Large-Scale Formation of Chondrocyte Aggregates by Rotational Culture. Cell Transplantation, 2003, 12, 475-479.	1.2	71
4	3D culture of osteoblastâ€like cells by unidirectional or oscillatory flow for bone tissue engineering. Biotechnology and Bioengineering, 2009, 102, 1670-1678.	1.7	71
5	Micropit surfaces designed for accelerating osteogenic differentiation of murine mesenchymal stem cells via enhancing focal adhesion and actin polymerization. Biomaterials, 2014, 35, 2245-2252.	5.7	67
6	STAT3 accelerates uterine epithelial regeneration in a mouse model of decellularized uterine matrix transplantation. JCI Insight, 2016, 1, .	2.3	49
7	Scaffold-free cartilage by rotational culture for tissue engineering. Journal of Biotechnology, 2008, 133, 134-145.	1.9	45
8	Oscillatory perfusion seeding and culturing of osteoblastâ€like cells on porous betaâ€tricalcium phosphate scaffolds. Journal of Biomedical Materials Research - Part A, 2008, 86A, 796-803.	2.1	36
9	High hydrostatic pressure induces pro-osteoarthritic changes in cartilage precursor cells: A transcriptome analysis. PLoS ONE, 2017, 12, e0183226.	1.1	30
10	Hybrid of Gel-Cultured Smooth Muscle Cells with PLLA Sponge as a Scaffold towards Blood Vessel Regeneration. Cell Transplantation, 2002, 11, 475-480.	1.2	28
11	Formation of Human Fibroblast Aggregates (Spheroids) by Rotational Culture. Cell Transplantation, 2001, 10, 441-445.	1.2	26
12	A Lamination Micro Mixer for .MU.-Immunomagnetic Cell Sorter. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2005, 48, 425-435.	0.3	24
13	Bone tissue engineering based on beadâ€“cell sheets composed of calcium phosphate beads and bone marrow cells. Materials Science and Engineering C, 2004, 24, 437-440.	3.8	20
14	Hydrostatic pressure prevents chondrocyte differentiation through heterochromatin remodeling. Journal of Cell Science, 2021, 134, .	1.2	17
15	Hypergravity down-regulates c-fos gene expression via ROCK/Rho-GTP and the PI3K signaling pathway in murine ATDC5 chondroprogenitor cells. PLoS ONE, 2017, 12, e0185394.	1.1	14
16	Oscillatory Perfusion Culture of CaP-Based Tissue Engineering Bone with and without Dexamethasone. Annals of Biomedical Engineering, 2009, 37, 146-155.	1.3	13
17	Tissue-engineered skin using aggregates of normal human skin fibroblasts and biodegradable material. Journal of Artificial Organs, 2001, 4, 353-356.	0.4	11
18	Novel bone graft model using bead-cell sheets composed of tricalcium phosphate beads and bone marrow cells. Materials Science and Engineering C, 2004, 24, 875-879.	3.8	11

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19	Hydrostatic pressure decreases membrane fluidity and lipid desaturase expression in chondrocyte progenitor cells. Journal of Biomechanics, 2014, 47, 354-359.	0.9	11
20	Modulation of the Effect of Transforming Growth Factor-Î²3 by Low-Intensity Pulsed Ultrasound on Scaffold-Free Dedifferentiated Articular Bovine Chondrocyte Tissues. Tissue Engineering - Part C: Methods, 2015, 21, 1005-1014.	1.1	9
21	An angiogenesis platform using a cubic artificial eggshell with patterned blood vessels on chicken chorioallantoic membrane. PLoS ONE, 2017, 12, e0175595.	1.1	9
22	Internal radial perfusion bioreactor promotes decellularization and recellularization of rat uterine tissue. Journal of Bioscience and Bioengineering, 2022, 133, 83-88.	1.1	8
23	Influence of Structure and Composition on Dynamic Viscoelastic Property of Cartilaginous Tissue: Criteria for Classification between Hyaline Cartilage and Fibrocartilage Based on Mechanical Function. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2005, 48, 547-554.	0.3	6
24	Continuous Visualization of Morphological Changes in Endothelial Cells in Response to Cyclic Stretch. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2006, 49, 545-555.	0.3	6
25	Assessment of the Inner Surface Microstructure of Decellularized Cortical Bone by a Scanning Electron Microscope. Bioengineering, 2019, 6, 86.	1.6	6
26	Layer dependence in strain distribution and chondrocyte damage in porcine articular cartilage exposed to excessive compressive stress loading. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 112, 104088.	1.5	6
27	Quantitative Analysis of Human Platelet Adhesions Under a Smallâ€Scale Flow Device. Artificial Organs, 2010, 34, 295-300.	1.0	5
28	Hybrid of gel-cultured smooth muscle cells with PLLA sponge as a scaffold towards blood vessel regeneration. Cell Transplantation, 2002, 11, 475-80.	1.2	5
29	Enhanced chondrogenesis with upregulation of PKR using a novel hydrostatic pressure bioreactor. Bioscience, Biotechnology and Biochemistry, 2015, 79, 239-241.	0.6	4
30	High Time Resolution Time-Lapse Imaging Reveals Continuous Existence and Rotation of Stress Fibers under Cyclic Stretch in HUVEC. Journal of Biomechanical Science and Engineering, 2012, 7, 188-198.	0.1	3
31	Local Strain Distribution and Increased Intracellular Ca2+ Signaling in Bovine Articular Cartilage Exposed to Compressive Strain. Journal of Biomechanical Engineering, 2020, 142, .	0.6	2
32	Osteogenic differentiation of murine mesenchymal stem cells by combination of surface topography and uniaxial stress. Journal of Biomechanical Science and Engineering, 2020, 15, 20-00009-20-00009.	0.1	1
33	2SD1410 Noninvasive assay for regenerative cartilage tissue(2SD Newly Developed Biometric System) Tj ETQq1 1 0.784314 rgBT /Ove Butsuri, 2010, 50, S13.	0.0	0
34	Macromol. Biosci. 7/2011. Macromolecular Bioscience, 2011, 11, .	2.1	0
35	Adhesion restriction of mesenchymal stem cells on nano check pattern. , 2017, , .		0
36	New microvascular anastomotic device for end-to-side anastomosis using negative pressure; a preliminary study. Journal of Plastic Surgery and Hand Surgery, 2020, 54, 167-171.	0.4	0

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37	Osteoinduction of bone marrow stromal cells by gyratory culture. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2003, 2003.15, 285-286.	0.0	0
38	Dynamic Visco-Elastic Property of Chondrocyte/Agarose Constructs and Its Comparison with That of Native Cartilage(Micro- and Nano-biomechanics). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2004, 2004.1, 215-216.	0.0	0
39	Mechanical properties and function-component relationships of tissue engineered cartilage. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2004, 2004.16, 441-442.	0.0	0
40	218 Effect of molecular structure of biodegradable polymer on mechanical properties of biosynthetic vascular graft. Proceedings of the JSME Bioengineering Conference and Seminar, 2005, 2004.17, 73-74.	0.0	0
41	734 Assessment of biomechanical and biochemical property of regenerated cartilage by Diffusion-MRI. The Proceedings of the JSME Annual Meeting, 2006, 2006.5, 267-268.	0.0	0
42	1009 Dual Imaging of Multiple Intracellular Singnaling Induced by Plasma Membrane Microdeformation. The Proceedings of the JSME Annual Meeting, 2007, 2007.5, 219-220.	0.0	0
43	INFLUENCE OF CASSETTE DESIGN ON THREE DIMENSIONAL PERFUSION CULTURE OF ARTIFICIAL BONE IN VITRO(3A3 Cellular & Tissue Engineering & Biomaterials III). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2007, 2007.3, S177.	0.0	0
44	312 Real time imaging of dynamic strain stress to cultured cell controlled by PID system. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2008, 2007.20, 101-102.	0.0	0
45	313 Simultaneous Real-time Imaging of Intracellular Signals Induced by Mechanical Stimulation. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2008, 2007.20, 103-104.	0.0	0
46	A105 Effect of ultrasound on plasma membrane. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2008, 2008.19, 9-10.	0.0	0
47	T0201-1-3 Involvement of PLC activation in Ca^<2+> increase in cells stimulated with a subcellular mechanical stimulation. The Proceedings of the JSME Annual Meeting, 2010, 2010.8, 133-134.	0.0	0
48	0333 Effects of Hydrostatic Pressure Loading on Chondrocyte Differentiation and Signal Transduction. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2010, 2009.22, 238.	0.0	0
49	G020011 Effects of Micropattern on Spatial Property of Focal Adhesion. The Proceedings of Mechanical Engineering Congress Japan, 2012, 2012, _G020011-1-_G020011-3.	0.0	0
50	7C15 Tissue engineered vascular graft model by compact mechanical stress loading device. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2012, 2012.24, _7C15-1_-_7C15-2_.	0.0	0
51	21008 Investigation of Loading Different Stimulus Pattern in Pulsatile Culture of the Tissue Engineered Vascular Graft. The Proceedings of Conference of Kanto Branch, 2013, 2013.19, 475-476.	0.0	0
52	2D25 Development of high-speed stereolithography system for tissue engineering. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 407-408.	0.0	0
53	1E34 Morphology dynamics of endothelial cells on soft substrate under cyclic stretch. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 153-154.	0.0	0
54	2C41 Hydrostatic pressure modifies the membrane fluidity and desaturase gene expression in chondrocyte progenitor cells. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 375-376.	0.0	0

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55	10205 Effect of Hydrostatic pressure on chondrogenesis and c-Fos. The Proceedings of Conference of Kanto Branch, 2014, 2014.20, _10205-1_-_10205-2_.	0.0	0
56	10207 Reconstruction of Engineered Uterine Tissues Under Dynamic Culturing. The Proceedings of Conference of Kanto Branch, 2014, 2014.20, _10207-1_-_10207-2_.	0.0	0
57	2D16 Reconstruction of rat uterine tissue using a decellularized tissue scaffold. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 397-398.	0.0	0
58	1F34 Immobilizing inorganic polyphosphate onto hyaluronic acid for use as a hydrogel scaffold in osteochondral tissue engineering. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 249-250.	0.0	0
59	2C23 The effect of hypergravity on c-Fos gene expression in prechondrogenic cells. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 395-396.	0.0	0
60	2A46 Study on reconstruction method of rat uterus using decellularized matrix scaffold. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 341-342.	0.0	0
61	GS1-18 HYDROSTATIC PRESSURE ACTIVATES HETEROTRIMERIC G PROTEINS IN CHONDROCYTE PROGENITOR CELLS(GS1: Cell and Tissue Biomechanics IV). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2015, 2015.8, 131.	0.0	0
62	PS4-11 External mechanical stimulation supports ex vivo maturation of neonatal articular cartilage(PS4: Poster Short Presentation IV,Poster Session). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2015, 2015.8, 291.	0.0	0
63	2C22 Activation of heterotrimeric G proteins under hydrostatic pressure in chondrocyte progenitor cells. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 393-394.	0.0	0
64	1H24 The effect of cyclic strain on human endometrial stromal cells. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2016, 2016.28, _1H24-1_-_1H24-4_.	0.0	0
65	1D11 High hydrostatic pressure induces stress and dedifferentiation of chondrocyte precursor cells. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2016, 2016.28, _1D11-1_-_1D11-5_.	0.0	0
66	1H25 Uterus Tissue Engineering by the matrices decellularized with hyper hydrostatic pressure. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2016, 2016.28, _1H25-1_-_1H25-5_.	0.0	0
67	1H44 Reconstruction of Scaffold-free Multilayered Cartilage Tissue. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2016, 2016.28, _1H44-1_-_1H44-5_.	0.0	0
68	In vitro facilitation of early embryo implantation using three-dimensional tissue-engineered constructs fabricated by human endometrial stromal cells. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2019, 2019.31, 1A11.	0.0	0