# Shukei Sugita

List of Publications by Year
in descending order

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| 33 | 246 | 1040056 9 | 996975 15 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 34 | 34 | 34 | 313 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Decrease in Ca2+ Concentration in Quail Cardiomyocytes Is Faster than That in Rat Cardiomyocytes. Processes, 2022, 10, 508. | 2.8 | 2 |
| 2 | Direct visualization of interstitial flow distribution in aortic walls. Scientific Reports, 2022, 12, 5381. | 3.3 | 0 |
| 3 | Polarized light retardation analysis allows for the evaluation of tension in individual stress fibers. Biochemical and Biophysical Research Communications, 2022, 620, 49-55. | 2.1 | 0 |
| 4 | Decoding the Effect of Hydrostatic Pressure on TRPV1 Lower-Gate Conformation by Molecular-Dynamics Simulation. International Journal of Molecular Sciences, 2022, 23, 7366. | 4.1 | 3 |
| 5 | Stress fibers of the aortic smooth muscle cells in tissues do not align with the principal strain direction during intraluminal pressurization. Biomechanics and Modeling in Mechanobiology, 2021, 20, 1003-1011. | 2.8 | 3 |
| 6 | B16 Melanoma Cancer Cells with Higher Metastatic Potential are More Deformable at a Whole-Cell Level. Cellular and Molecular Bioengineering, 2021, 14, 309-320. | 2.1 | 4 |
| 7 | Second harmonic generation light quantifies the ratio of type III to total (Iâ€‰+â€‰III) collagen in a bundle of collagen fiber. Scientific Reports, 2021, 11, 11874. | 3.3 | 9 |
| 8 | Comparison of the histology and stiffness of ventricles in Anura of different habitats. Journal of Biological Physics, 2021, 47, 287-300. | 1.5 | 2 |
| 9 | Three-dimensional analysis of the thoracic aorta microscopic deformation during intraluminal pressurization. Biomechanics and Modeling in Mechanobiology, 2020, 19, 147-157. | 2.8 | 10 |
| 10 | Mechanophenotyping of B16 Melanoma Cell Variants for the Assessment of the Efficacy of (-)-Epigallocatechin Gallate Treatment Using a Tapered Microfluidic Device. Micromachines, 2019, 10, 207. | 2.9 | 12 |
| 11 | Photoelasticity-based evaluation of cellular contractile force for phenotypic discrimination of vascular smooth muscle cells. Scientific Reports, 2019, 9, 3960. | 3.3 | 14 |
| 12 | Multinucleation of Incubated Cells and Their Morphological Differences Compared to Mononuclear Cells. Micromachines, 2019, 10, 156. | 2.9 | 3 |
| 13 | A novel FRET analysis method for tension dynamics in a single actin stress fiber: Application to MC3T3-E1 cells during movement on a substrate. Journal of Biorheology, 2019, 33, 21-26. | 0.5 | 1 |
| 14 | Local distribution of collagen fibers determines crack initiation site and its propagation direction during aortic rupture. Biomechanics and Modeling in Mechanobiology, 2018, 17, 577-587. | 2.8 | 15 |
| 15 | Direct application of mechanical stimulation to cell adhesion sites using a novel magnetic-driven micropillar substrate. Biomedical Microdevices, 2018, 20, 85. | 2.8 | 7 |
| 16 | Morphometrical and biomechanical analyses of a stentless bioprosthetic valve: an implication to avoid potential primary tissue failure. General Thoracic and Cardiovascular Surgery, 2018, 66, 523-528. | 0.9 | 1 |
| 17 | Multiphoton microscopy observations of 3D elastin and collagen fiber microstructure changes during pressurization in aortic media. Biomechanics and Modeling in Mechanobiology, 2017, 16, 763-773. | 2.8 | 48 |
| 18 | Measurement of surface topography and stiffness distribution on crossâ€section of Xenopus laevis tailbud for estimation of mechanical environment in embryo. Development Growth and Differentiation, 2017, 59, 434-443. | 1.5 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A Novel Apparatus for the Multifaceted Evaluation of Arterial Function Through Transmural Pressure Manipulation. Annals of Biomedical Engineering, 2017, 45, 1487-1495. | 2.5 | 1 |
| 20 | Dynamics of actin filaments of MC3T3-E1 cells during adhesion process to substrate. Journal of Biomechanical Science and Engineering, 2016, 11, 15-00637-15-00637. | 0.3 | 3 |
| 21 | Observations of intracellular tension dynamics of MC3T3-E1 cells during substrate adhesion using a FRET-based actinin tension sensor. Journal of Biomechanical Science and Engineering, 2016, 11, 16-00504-16-00504. | 0.3 | 3 |
| 22 | 1D21 A research on estimation of cell traction forces from measurement of retardance. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2016, 2016.28, _1D21-1_-_1D21-5_. | 0.0 | 0 |
| 23 | GS1-15 Difference in mechanical properties of collagen fibers in the media and the adventitia of the porcine thoracic aorta(GS1: Cell and Tissue Biomechanics III). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2015, 2015.8, 129. | 0.0 | 0 |
| 24 | OS18-9 Microscopic Deformation of Porcine Thoracic Aortas until Failure during Biaxial Stretch as a Model of Aortic Rupture(Cell and Tissue mechanics 3,OS18 Cell and tissue mechanics,BIOMECHANICS). The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2015, 2015.14, 243. | 0.0 | 0 |
| 25 | Novel biaxial tensile test for studying aortic failure phenomena at a microscopic level. BioMedical Engineering OnLine, 2013, 12, 3. | 2.7 | 7 |
| 26 | Quantitative measurement of the distribution and alignment of collagen fibers in unfixed aortic tissues. Journal of Biomechanics, 2013, 46, 1403-1407. | 2.1 | 21 |
| 27 | Heterogeneity of deformation of aortic wall at the microscopic level: Contribution of heterogeneous distribution of collagen fibers in the wall. Bio-Medical Materials and Engineering, 2013, 23, 447-461. | 0.6 | 8 |
| 28 | Yielding Phenomena of Aortic Wall and Intramural Collagen Fiber Alignment: Possible Link to Rupture Mechanism of Aortic Aneurysms. Journal of Biomechanical Science and Engineering, 2013, 8, 104-113. | 0.3 | 8 |
| 29 | Evaluation of Rupture Properties of Thoracic Aortic Aneurysms in a Pressure-Imposed Test for Rupture Risk Estimation. Cardiovascular Engineering and Technology, 2012, 3, 41-51. | 1.6 | 18 |
| 30 | A Novel Method for Measuring Tension Generated in Stress Fibers by Applying External Forces. Biophysical Journal, 2011, 101, 53-60. | 0.5 | 22 |
| 31 | Size sorting of kinesin-driven microtubules with topographical grooves on a chip. Lab on A Chip, 2010, 10, 755. | 6.0 | 7 |
| 32 | Characterization of Motility Properties of Kinesin-Driven Microtubules Towards Nano-Scale Transporter: Focusing on Length of Microtubules and Kinesin Density. Journal of Biomechanical Science and Engineering, 2008, 3, 510-519. | 0.3 | 7 |
| 33 | Local Strain Measurement of Arterial Wall Based on Longitudinal Observation.. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2003, 69, 43-48. | 0.2 | 6 |