

Shu Chien

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.

134
papers

8,898
citations

41
h-index

94
g-index

142
ext. papers

10,775
ext. citations

8.9
avg, IF

6.25
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 134 | Biomechanical interactions of <i>Schistosoma mansoni</i> eggs with vascular endothelial cells facilitate egg extravasation.. <i>PLoS Pathogens</i> , 2022 , 18, e1010309 | 7.6 | 0 |
| 133 | Endothelial Yin Yang 1 Phosphorylation at S118 Induces Atherosclerosis Under Flow. <i>Circulation Research</i> , 2021 , 129, 1158-1174 | 15.7 | 1 |
| 132 | Vitexin inhibits APEX1 to counteract the flow-induced endothelial inflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118, | 11.5 | 2 |
| 131 | Elongated neutrophil-derived structures are blood-borne microparticles formed by rolling neutrophils during sepsis. <i>Journal of Experimental Medicine</i> , 2021 , 218, | 16.6 | 12 |
| 130 | Elucidating the Biomechanics of Leukocyte Transendothelial Migration by Quantitative Imaging. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 635263 | 5.7 | 2 |
| 129 | Mechanoresponsive Smad5 Enhances MiR-487a Processing to Promote Vascular Endothelial Proliferation in Response to Disturbed Flow. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 647714 | 5.7 | 1 |
| 128 | Maintenance of HDACs and H3K9me3 Prevents Arterial Flow-Induced Venous Endothelial Damage. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 642150 | 5.7 | 4 |
| 127 | Roles of KLF4 and AMPK in the inhibition of glycolysis by pulsatile shear stress in endothelial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118, | 11.5 | 7 |
| 126 | Continuous monitoring of deep-tissue haemodynamics with stretchable ultrasonic phased arrays. <i>Nature Biomedical Engineering</i> , 2021 , 5, 749-758 | 19 | 23 |
| 125 | RAMP2-AS1 Regulates Endothelial Homeostasis and Aging. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 635307 | 5.7 | 3 |
| 124 | METTL3-dependent N-methyladenosine RNA modification mediates the atherogenic inflammatory cascades in vascular endothelium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118, | 11.5 | 14 |
| 123 | The interplay between matrix deformation and the coordination of turning events governs directed neutrophil migration in 3D matrices. <i>Science Advances</i> , 2021 , 7, | 14.3 | 3 |
| 122 | Integration of FRET and sequencing to engineer kinase biosensors from mammalian cell libraries. <i>Nature Communications</i> , 2021 , 12, 5031 | 17.4 | 2 |
| 121 | Control of the activity of CAR-T cells within tumours via focused ultrasound. <i>Nature Biomedical Engineering</i> , 2021 , 5, 1336-1347 | 19 | 21 |
| 120 | Longitudinal shear stress response in human endothelial cells to atheroprone and atheroprotective conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118, | 11.5 | 11 |
| 119 | The Anastomotic Angle of Hemodialysis Arteriovenous Fistula Is Associated With Flow Disturbance at the Venous Stenosis Location on Angiography. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 846 | 5.8 | 7 |
| 118 | Control of matrix stiffness promotes endodermal lineage specification by regulating SMAD2/3 via lncRNA LINC00458. <i>Science Advances</i> , 2020 , 6, eaay0264 | 14.3 | 23 |

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| 117 | Engineering light-controllable CAR T cells for cancer immunotherapy. <i>Science Advances</i> , 2020 , 6, eaay9209 | 14.3 | 44 |
| 116 | Inhibition of Serine Protease Activity Protects Against High Fat Diet-Induced Inflammation and Insulin Resistance. <i>Scientific Reports</i> , 2020 , 10, 1725 | 4.9 | 11 |
| 115 | Reply to Verwilt et al.: Experimental evidence against DNA contamination in SILVER-seq. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 18937-18938 | 11.5 | 1 |
| 114 | Extracellular RNA in a single droplet of human serum reflects physiologic and disease states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 19200-19208 | 11.5 | 31 |
| 113 | KDM4B is a coactivator of c-Jun and involved in gastric carcinogenesis. <i>Cell Death and Disease</i> , 2019 , 10, 68 | 9.8 | 14 |
| 112 | Dr. Y.C. Fung's Contributions to Biomechanics, Bioengineering and Humanity: Warmest Celebration for a Magnificent Centenarian. <i>Journal of Biomechanical Engineering</i> , 2019 , | 2.1 | 1 |
| 111 | Shear stress regulation of miR-93 and miR-484 maturation through nucleolin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 12974-12979 | 11.5 | 16 |
| 110 | MiR-145 mediates cell morphology-regulated mesenchymal stem cell differentiation to smooth muscle cells. <i>Biomaterials</i> , 2019 , 204, 59-69 | 15.6 | 18 |
| 109 | Atheroprotective Flow Upregulates ITPR3 (Inositol 1,4,5-Trisphosphate Receptor 3) in Vascular Endothelium via KLF4 (Kruppel-Like Factor 4)-Mediated Histone Modifications. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019 , 39, 902-914 | 9.4 | 26 |
| 108 | Genome-wide colocalization of RNA-DNA interactions and fusion RNA pairs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 3328-3337 | 11.5 | 25 |
| 107 | Mapping RNA-chromatin interactions by sequencing with iMARGI. <i>Nature Protocols</i> , 2019 , 14, 3243-3272 | 18.8 | 18 |
| 106 | Extracellular MicroRNA-92a Mediates Endothelial Cell-Macrophage Communication. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019 , 39, 2492-2504 | 9.4 | 33 |
| 105 | Epigenetic profiling with ultralow DNA amounts. <i>Nature Biomedical Engineering</i> , 2018 , 2, 146-147 | 19 | |
| 104 | GPR68 Senses Flow and Is Essential for Vascular Physiology. <i>Cell</i> , 2018 , 173, 762-775.e16 | 56.2 | 126 |
| 103 | Lis1 dysfunction leads to traction force reduction and cytoskeletal disorganization during cell migration. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 497, 869-875 | 3.4 | 13 |
| 102 | Mechanogenetics for the remote and noninvasive control of cancer immunotherapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 992-997 | 11.5 | 111 |
| 101 | Enhancer-associated long non-coding RNA LEENE regulates endothelial nitric oxide synthase and endothelial function. <i>Nature Communications</i> , 2018 , 9, 292 | 17.4 | 86 |
| 100 | Three-dimensional forces exerted by leukocytes and vascular endothelial cells dynamically facilitate diapedesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 133-138 | 11.5 | 30 |

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|----|--|------|-----|
| 99 | Suspension state promotes metastasis of breast cancer cells by up-regulating cyclooxygenase-2. <i>Theranostics</i> , 2018 , 8, 3722-3736 | 12.1 | 20 |
| 98 | RAP2 mediates mechanoresponses of the Hippo pathway. <i>Nature</i> , 2018 , 560, 655-660 | 50.4 | 157 |
| 97 | 1. A light inducible gene activation system toward controllable cell-based therapeutics. <i>FASEB Journal</i> , 2018 , 32, 804.62 | 0.9 | |
| 96 | Role of RNA N6-methyladenosine methylation in endothelial response to flow. <i>FASEB Journal</i> , 2018 , 32, 787.3 | 0.9 | |
| 95 | Roles of Cell-Cell Junction and Substrate Stiffness in Determining 3D Forces of Endothelial Cells. <i>FASEB Journal</i> , 2018 , 32, 846.4 | 0.9 | |
| 94 | Reversal of phenotypic abnormalities by CRISPR/Cas9-mediated gene correction in iPSCs derived from Fabry IVS4+919 mutation patients. <i>FASEB Journal</i> , 2018 , 32, 649.9 | 0.9 | |
| 93 | MicroRNA-146a Deficiency Promotes Atherosclerosis by Dysregulating Cholesterol Homeostasis in Macrophages. <i>FASEB Journal</i> , 2018 , 32, 752.6 | 0.9 | |
| 92 | Nanoparticle Functionalization with Platelet Membrane Enables Multifactorial Biological Targeting and Detection of Atherosclerosis. <i>ACS Nano</i> , 2018 , 12, 109-116 | 16.7 | 141 |
| 91 | Coordinated histone modifications and chromatin reorganization in a single cell revealed by FRET biosensors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E11681-E11690 | 11.5 | 25 |
| 90 | The CCL5/CCR5 Axis Promotes Vascular Smooth Muscle Cell Proliferation and Atherogenic Phenotype Switching. <i>Cellular Physiology and Biochemistry</i> , 2018 , 47, 707-720 | 3.9 | 22 |
| 89 | AMPK promotes mitochondrial biogenesis and function by phosphorylating the epigenetic factors DNMT1, RBBP7, and HAT1. <i>Science Signaling</i> , 2017 , 10, | 8.8 | 119 |
| 88 | MicroRNA-10a is crucial for endothelial response to different flow patterns via interaction of retinoid acid receptors and histone deacetylases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 2072-2077 | 11.5 | 36 |
| 87 | LINC00341 exerts an anti-inflammatory effect on endothelial cells by repressing VCAM1. <i>Physiological Genomics</i> , 2017 , 49, 339-345 | 3.6 | 43 |
| 86 | Systems biology analysis of longitudinal functional response of endothelial cells to shear stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 10990-10995 | 11.5 | 61 |
| 85 | Engineered proteins with sensing and activating modules for automated reprogramming of cellular functions. <i>Nature Communications</i> , 2017 , 8, 477 | 17.4 | 12 |
| 84 | VAMP3 and SNAP23 mediate the disturbed flow-induced endothelial microRNA secretion and smooth muscle hyperplasia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 8271-8276 | 11.5 | 28 |
| 83 | The Mammalian Target of Rapamycin and DNA methyltransferase 1 axis mediates vascular endothelial dysfunction in response to disturbed flow. <i>Scientific Reports</i> , 2017 , 7, 14996 | 4.9 | 16 |
| 82 | Thy-1 dependent uptake of mesenchymal stem cell-derived extracellular vesicles blocks myofibroblastic differentiation. <i>Scientific Reports</i> , 2017 , 7, 18052 | 4.9 | 54 |

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|----|--|------|-----|
| 81 | Regulation of actin catch-slip bonds with a RhoA-formin module. <i>Scientific Reports</i> , 2016 , 6, 35058 | 4.9 | 10 |
| 80 | In-situ coupling between kinase activities and protein dynamics within single focal adhesions. <i>Scientific Reports</i> , 2016 , 6, 29377 | 4.9 | 11 |
| 79 | Deterministically patterned biomimetic human iPSC-derived hepatic model via rapid 3D bioprinting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 2206-11 | 11.5 | 516 |
| 78 | Activation of integrin β mediated by flow requires its translocation to membrane lipid rafts in vascular endothelial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 769-74 | 11.5 | 63 |
| 77 | Anti-cancer effects of nitrogen-containing bisphosphonates on human cancer cells. <i>Oncotarget</i> , 2016 , 7, 57932-57942 | 3.3 | 11 |
| 76 | Role of Excessive Autophagy Induced by Mechanical Overload in Vein Graft Neointima Formation: Prediction and Prevention. <i>Scientific Reports</i> , 2016 , 6, 22147 | 4.9 | 11 |
| 75 | Extracellular matrix stiffness dictates Wnt expression through integrin pathway. <i>Scientific Reports</i> , 2016 , 6, 20395 | 4.9 | 96 |
| 74 | TIFA as a crucial mediator for NLRP3 inflammasome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 15078-15083 | 11.5 | 30 |
| 73 | Nuclear envelope proteins modulate proliferation of vascular smooth muscle cells during cyclic stretch application. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 5293-8 | 11.5 | 48 |
| 72 | Flow-dependent YAP/TAZ activities regulate endothelial phenotypes and atherosclerosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 11525-11530 | 11.5 | 197 |
| 71 | Four-and-a-Half LIM Domains Protein 2 Is a Coactivator of Wnt Signaling in Diabetic Kidney Disease. <i>Journal of the American Society of Nephrology: JASN</i> , 2015 , 26, 3072-84 | 12.7 | 27 |
| 70 | Identification of AMP-activated protein kinase targets by a consensus sequence search of the proteome. <i>BMC Systems Biology</i> , 2015 , 9, 13 | 3.5 | 20 |
| 69 | Engineering as a new frontier for translational medicine. <i>Science Translational Medicine</i> , 2015 , 7, 281fs13 | 17.5 | 13 |
| 68 | Defined MicroRNAs Induce Aspects of Maturation in Mouse and Human Embryonic-Stem-Cell-Derived Cardiomyocytes. <i>Cell Reports</i> , 2015 , 12, 1960-7 | 10.6 | 53 |
| 67 | Dexamethasone-induced cellular tension requires a SGK1-stimulated Sec5-GEF-H1 interaction. <i>Journal of Cell Science</i> , 2015 , 128, 3757-68 | 5.3 | 8 |
| 66 | Nanoparticle biointerfacing by platelet membrane cloaking. <i>Nature</i> , 2015 , 526, 118-21 | 50.4 | 890 |
| 65 | Mechanosensitive TRPM7 mediates shear stress and modulates osteogenic differentiation of mesenchymal stromal cells through Osterix pathway. <i>Scientific Reports</i> , 2015 , 5, 16522 | 4.9 | 52 |
| 64 | Piezo1 links mechanical forces to red blood cell volume. <i>ELife</i> , 2015 , 4, | 8.9 | 272 |

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| 63 | Endothelial trauma from mechanical thrombectomy in acute stroke: in vitro live-cell platform with animal validation. <i>Stroke</i> , 2015 , 46, 1099-106 | 6.7 | 79 |
| 62 | Oxidative stress activates endothelial innate immunity via sterol regulatory element binding protein 2 (SREBP2) transactivation of microRNA-92a. <i>Circulation</i> , 2015 , 131, 805-14 | 16.7 | 111 |
| 61 | MicroRNA mediation of endothelial inflammatory response to smooth muscle cells and its inhibition by atheroprotective shear stress. <i>Circulation Research</i> , 2015 , 116, 1157-69 | 15.7 | 48 |
| 60 | Author response: Piezo1 links mechanical forces to red blood cell volume 2015 , | | 4 |
| 59 | Focal adhesion kinase leads paxillin in the assembly of nascent focal adhesions in lamellipodial protrusions of migrating endothelial cells. <i>FASEB Journal</i> , 2015 , 29, 797.5 | 0.9 | |
| 58 | Laudatio for Harry Goldsmith. <i>Biorheology</i> , 2015 , 52, 295-9 | 1.7 | |
| 57 | Shear stress-initiated signaling and its regulation of endothelial function. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 2191-8 | 9.4 | 268 |
| 56 | Piezo1, a mechanically activated ion channel, is required for vascular development in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 10347-52 | 11.5 | 424 |
| 55 | Epigenetic Mechanism in Regulation of Endothelial Function by Disturbed Flow: Induction of DNA Hypermethylation by DNMT1. <i>Cellular and Molecular Bioengineering</i> , 2014 , 7, 218-224 | 3.9 | 59 |
| 54 | The effects of actin cytoskeleton perturbation on keratin intermediate filament formation in mesenchymal stem/stromal cells. <i>Biomaterials</i> , 2014 , 35, 3934-44 | 15.6 | 23 |
| 53 | MicroRNA-23b regulates cyclin-dependent kinase-activating kinase complex through cyclin H repression to modulate endothelial transcription and growth under flow. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 1437-45 | 9.4 | 25 |
| 52 | FAK and paxillin dynamics at focal adhesions in the protrusions of migrating cells. <i>Scientific Reports</i> , 2014 , 4, 6024 | 4.9 | 97 |
| 51 | Decipher the dynamic coordination between enzymatic activity and structural modulation at focal adhesions in living cells. <i>Scientific Reports</i> , 2014 , 4, 5756 | 4.9 | 8 |
| 50 | Cation type specific cell remodeling regulates attachment strength. <i>PLoS ONE</i> , 2014 , 9, e102424 | 3.7 | 13 |
| 49 | Relative impact of uniaxial alignment vs. form-induced stress on differentiation of human adipose derived stem cells. <i>Biomaterials</i> , 2013 , 34, 9812-8 | 15.6 | 28 |
| 48 | Regulation of vascular smooth muscle cell turnover by endothelial cell-secreted microRNA-126: role of shear stress. <i>Circulation Research</i> , 2013 , 113, 40-51 | 15.7 | 183 |
| 47 | Shear stress activation of nuclear receptor PXR in endothelial detoxification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 13174-9 | 11.5 | 40 |
| 46 | Focal adhesion kinase leads paxillin in focal adhesion assembly at lamellipodial protrusion of migrating endothelial cells. <i>FASEB Journal</i> , 2013 , 27, 707.3 | 0.9 | |

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| 45 | UCSD's Institute of Engineering in Medicine: fostering collaboration through research and education. <i>IEEE Pulse</i> , 2012 , 3, 35-41 | 0.7 | |
| 44 | Role of histone deacetylases in transcription factor regulation and cell cycle modulation in endothelial cells in response to disturbed flow. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 1967-72 | 11.5 | 109 |
| 43 | Force-specific activation of Smad1/5 regulates vascular endothelial cell cycle progression in response to disturbed flow. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 7770-5 | 11.5 | 78 |
| 42 | Roles of cell confluency and fluid shear in 3-dimensional intracellular forces in endothelial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 11110-5 | 11.5 | 89 |
| 41 | Biomineralized matrices promote osteogenic differentiation of human mesenchymal stem cells: A mechanistic study. <i>FASEB Journal</i> , 2012 , 26, lb65 | 0.9 | |
| 40 | Role of histone deacetylases in regulation of NF-E2-related factor 2, kruppel-like factor 2, and cell cycle in vascular endothelial cells in response to disturbed flow. <i>FASEB Journal</i> , 2012 , 26, 1129.1 | 0.9 | |
| 39 | Mechanisms of the Anti-inflammatory Action of Pulsatile Laminar Flow: Role of AMPK in Chromatin Remodeling. <i>FASEB Journal</i> , 2012 , 26, 905.18 | 0.9 | |
| 38 | Flow-regulation of Vascular Smooth Muscle Cell Proliferation: Roles of Endothelial Cell-secreted MicroRNA-126. <i>FASEB Journal</i> , 2012 , 26, 870.37 | 0.9 | |
| 37 | Human Mesenchymal Stem Cell Modulates the Stretch-induced Inflammatory Response in Bronchial Epithelial Cells. <i>FASEB Journal</i> , 2012 , 26, 658.2 | 0.9 | |
| 36 | Dynamics of focal adhesion kinase and paxillin in lamellipodial protrusion of migrating endothelial cells. <i>FASEB Journal</i> , 2012 , 26, 1129.13 | 0.9 | |
| 35 | A brief history of the Bioengineering Institute of California and the UC System-wide Symposia. <i>Annals of Biomedical Engineering</i> , 2011 , 39, 1156-62 | 4.7 | |
| 34 | Effects of disturbed flow on vascular endothelium: pathophysiological basis and clinical perspectives. <i>Physiological Reviews</i> , 2011 , 91, 327-87 | 47.9 | 1300 |
| 33 | MicroRNA-21 targets peroxisome proliferators-activated receptor-alpha in an autoregulatory loop to modulate flow-induced endothelial inflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 10355-60 | 11.5 | 257 |
| 32 | High-Throughput Systems for Stem Cell Engineering 2011 , 347-374 | | |
| 31 | Oscillatory flow-induced proliferation of osteoblast-like cells is mediated by alphavbeta3 and beta1 integrins through synergistic interactions of focal adhesion kinase and Shc with phosphatidylinositol 3-kinase and the Akt/mTOR/p70S6K pathway. <i>Journal of Biological Chemistry</i> , 2010 , 285, 30-42 | 5.4 | 67 |
| 30 | Mechanical Activation of Smad, A Novel Regulator for Endothelial Cell Proliferation Induced by Disturbed Flow. <i>FASEB Journal</i> , 2010 , 24, 598.12 | 0.9 | 1 |
| 29 | Focal Adhesion Kinase Dynamics under Shear Stress in Live Endothelial Cells Studied with a FRET Biosensor. <i>FASEB Journal</i> , 2010 , 24, 784.1 | 0.9 | |
| 28 | Visualization of virtual screening results on tiled display walls (TDW). <i>FASEB Journal</i> , 2010 , 24, 1060.2 | 0.9 | |

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|----|---|------|-----|
| 27 | Deep Sequencing and Bioinformatics Analysis of Endothelial MicroRNA under Hypoxia Stress. <i>FASEB Journal</i> , 2010 , 24, 784.10 | 0.9 | |
| 26 | Flow activation of AMP-activated protein kinase in vascular endothelium leads to Kröppel-like factor 2 expression. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009 , 29, 1902-8 | 9.4 | 94 |
| 25 | A Tribute to Professor Van C. Mow: A Wonderful Scholar and Leader in Bioengineering. <i>Cellular and Molecular Bioengineering</i> , 2009 , 2, 282-284 | 3.9 | |
| 24 | Roles of focal adhesion kinase and paxillin in focal adhesion dynamics of living endothelial cells. <i>FASEB Journal</i> , 2009 , 23, 965.5 | 0.9 | |
| 23 | Global analysis of miRNA expression in endothelial cells under different flow patterns. <i>FASEB Journal</i> , 2009 , 23, 776.2 | 0.9 | |
| 22 | Y. C FUNG AND BIOMECHANICS: FROM ORGANS-SYSTEMS TO MOLECULES-GENES 2009 , 257-277 | | |
| 21 | Effects of myakuryu on hemorheological characteristics and mesenteric microcirculation of rats fed with a high-fat diet. <i>Biorheology</i> , 2008 , 45, 587-598 | 1.7 | 2 |
| 20 | Effects of disturbed flow on endothelial cells. <i>Annals of Biomedical Engineering</i> , 2008 , 36, 554-62 | 4.7 | 233 |
| 19 | Dynamic motion of paxillin on actin filaments in living endothelial responses to shear stress. <i>FASEB Journal</i> , 2008 , 22, 964.28 | 0.9 | |
| 18 | The Mechanism of Phenotypic Modulation of Vascular Smooth Muscle Cells: Role of extracellular matrix and PDGF-BB/IL-1b. <i>FASEB Journal</i> , 2008 , 22, 965.4 | 0.9 | |
| 17 | Shear Stress Induces Synthetic-to-contractile Phenotypic Change of Smooth Muscle Cells via Paracrine Effect of Prostacyclin from Endothelial Cells and the PPAR- γ Pathways. <i>FASEB Journal</i> , 2008 , 22, 1208.7 | 0.9 | |
| 16 | Regulation of endothelial cell cycle by laminar versus oscillatory flow: distinct modes of interactions of AMP-activated protein kinase and Akt pathways. <i>Circulation Research</i> , 2007 , 100, 564-71 | 15.7 | 79 |
| 15 | Mechanisms of induction of endothelial cell E-selectin expression by smooth muscle cells and its inhibition by shear stress. <i>Blood</i> , 2007 , 110, 519-28 | 2.2 | 54 |
| 14 | Mechanical Activation of mTOR Signaling Requires a Phospholipase D-Mediated Increase in Phosphatidic Acid. <i>FASEB Journal</i> , 2006 , 20, A818 | 0.9 | |
| 13 | Roles of cytoskeleton in the localization and tyrosine phosphorylation of paxillin in endothelial cells. <i>FASEB Journal</i> , 2006 , 20, A1167 | 0.9 | |
| 12 | Molecular basis of rheological modulation of endothelial functions: importance of stress direction. <i>Biorheology</i> , 2006 , 43, 95-116 | 1.7 | 26 |
| 11 | The National Institute of Biomedical Imaging and Bioengineering. <i>Annual Review of Biomedical Engineering</i> , 2004 , 6, 1-26 | 12 | 6 |
| 10 | Molecular and mechanical bases of focal lipid accumulation in arterial wall. <i>Progress in Biophysics and Molecular Biology</i> , 2003 , 83, 131-51 | 4.7 | 107 |

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|---|--|------|-----|
| 9 | Endothelial cellular response to altered shear stress. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2001 , 281, L529-33 | 5.8 | 274 |
| 8 | Newest member of the NIH family. <i>Science</i> , 2001 , 291, 1701-2 | 33.3 | 2 |
| 7 | Endothelium-Dependent, Shear-Induced Vasodilation Is Rate-Sensitive. <i>Microcirculation</i> , 2000 , 7, 53-65 | 2.9 | 37 |
| 6 | Measurement of orientation and distribution of cellular alignment and cytoskeletal organization. <i>Annals of Biomedical Engineering</i> , 1999 , 27, 712-20 | 4.7 | 83 |
| 5 | Effect of seeding duration on the strength of chondrocyte adhesion to articular cartilage. <i>Journal of Orthopaedic Research</i> , 1999 , 17, 121-9 | 3.8 | 35 |
| 4 | Regulation of cardiac gene expression during myocardial growth and hypertrophy: molecular studies of an adaptive physiologic response. <i>FASEB Journal</i> , 1991 , 5, 3037-46 | 0.9 | 692 |
| 3 | The dynamics of shear disaggregation of red blood cells in a flow channel. <i>Biorheology</i> , 1990 , 27, 135-47 | 1.7 | 15 |
| 2 | Molecular basis of red cell membrane rheology. Part 1. <i>Biorheology</i> , 1990 , 27, 327-44 | 1.7 | 20 |
| 1 | Role of leukocyte-endothelium adhesion in affecting recovery from ischemic episodes. <i>Annals of the New York Academy of Sciences</i> , 1989 , 565, 308-15 | 6.5 | 24 |