

Shigeo Wada

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.

139
papers

730
citations

15
h-index

24
g-index

150
ext. papers

894
ext. citations

2.8
avg, IF

4.36
L-index

#	Paper	IF	Citations
139	On the Impact of Left Upper Lobectomy on the Left Atrial Hemodynamics.. <i>Frontiers in Physiology</i> , 2022 , 13, 830436	4.6	1
138	Development of a mesoscopic framework spanning nanoscale protofibril dynamics to macro-scale fibrin clot formation. <i>Journal of the Royal Society Interface</i> , 2021 , 18, 20210554	4.1	0
137	Effects of Left Ventricular Hypertrophy and Myocardial Stiffness on Myocardial Strain Under Preserved Ejection Fraction. <i>Annals of Biomedical Engineering</i> , 2021 , 49, 1670-1687	4.7	1
136	Cerebrospinal fluid flow driven by arterial pulsations in axisymmetric perivascular spaces: Analogy with Taylor's swimming sheet. <i>Journal of Theoretical Biology</i> , 2021 , 523, 110709	2.3	2
135	A subject-specific assessment of measurement errors and their correction in cerebrospinal fluid velocity maps using 4D flow MRI. <i>Magnetic Resonance in Medicine</i> , 2021 ,	4.4	1
134	Multiscale modeling of human cerebrovasculature: A hybrid approach using image-based geometry and a mathematical algorithm. <i>PLoS Computational Biology</i> , 2020 , 16, e1007943	5	8
133	Computational modeling of braided-stent deployment for interpreting the mechanism of stent flattening. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2020 ,	2.6	1
132	Kelvin-Helmholtz-like instability of phospholipid bilayers under shear flow: System-size dependence. <i>Physical Review E</i> , 2020 , 102, 022408	2.4	0
131	A braided stent becomes flattened inside a curved catheter tube: A micro-CT imaging study. <i>Bio-Medical Materials and Engineering</i> , 2020 , 31, 373-380	1	
130	Modeling of endovascular coiling for cerebral aneurysms: Effects of friction on coil mechanical behaviors. <i>International Journal of Mechanical Sciences</i> , 2020 , 166, 105206	5.5	1
129	Multiscale modeling of human cerebrovasculature: A hybrid approach using image-based geometry and a mathematical algorithm 2020 , 16, e1007943		
128	Multiscale modeling of human cerebrovasculature: A hybrid approach using image-based geometry and a mathematical algorithm 2020 , 16, e1007943		
127	Multiscale modeling of human cerebrovasculature: A hybrid approach using image-based geometry and a mathematical algorithm 2020 , 16, e1007943		
126	Multiscale modeling of human cerebrovasculature: A hybrid approach using image-based geometry and a mathematical algorithm 2020 , 16, e1007943		
125	Multiscale modeling of human cerebrovasculature: A hybrid approach using image-based geometry and a mathematical algorithm 2020 , 16, e1007943		
124	Multiscale modeling of human cerebrovasculature: A hybrid approach using image-based geometry and a mathematical algorithm 2020 , 16, e1007943		
123	Aeroacoustic analysis on individual characteristics in sibilant fricative production. <i>Journal of the Acoustical Society of America</i> , 2019 , 146, 1239	2.2	10

122	Haemorheology in dilute, semi-dilute and dense suspensions of red blood cells. <i>Journal of Fluid Mechanics</i> , 2019 , 872, 818-848	3.7	15
121	Deformation of a Red Blood Cell in a Narrow Rectangular Microchannel. <i>Micromachines</i> , 2019 , 10,	3.3	10
120	Bicelle-to-Vesicle Transition of a Binary Phospholipid Mixture Guided by Controlled Local Lipid Compositions: A Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 3118-3123	3.1	10
119	Targeting inhaled fibers to the pulmonary acinus: Opportunities for augmented delivery from in silico simulations. <i>European Journal of Pharmaceutical Sciences</i> , 2019 , 137, 105003	5.1	14
118	A simplified vocal tract model for articulation of [s]: The effect of tongue tip elevation on [s]. <i>PLoS ONE</i> , 2019 , 14, e0223382	3.7	3
117	How to Measure Cellular Shear Modulus Inside a Chip: Detailed Correspondence to the Fluid-Structure Coupling Analysis 2019 ,		1
116	Molecular Dynamics Simulation of Peptide-embedded Liposome Formation. <i>The Proceedings of the JSME Conference on Frontiers in Bioengineering</i> , 2019 , 2019.30, 1A33	0	
115	Capture event of platelets by bolus flow of red blood cells in capillaries. <i>Journal of Biomechanical Science and Engineering</i> , 2019 , 14, 18-00535-18-00535	0.8	4
114	Performance assessment of displacement-field estimation of the human left atrium from 4D-CT images using the coherent point drift algorithm. <i>Computers in Biology and Medicine</i> , 2019 , 114, 103454	7	6
113	Fluid dynamic assessment of tracheal flow in infants with congenital tracheal stenosis before and after surgery. <i>Medical and Biological Engineering and Computing</i> , 2019 , 57, 837-847	3.1	1
112	Heterogeneous structure and surface tension effects on mechanical response in pulmonary acinus: A finite element analysis. <i>Clinical Biomechanics</i> , 2019 , 66, 32-39	2.2	7
111	Stretch-Induced Interdigitation of a Phospholipid/Cholesterol Bilayer. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 2556-2563	3.4	4
110	Experimental and numerical investigation of the sound generation mechanisms of sibilant fricatives using a simplified vocal tract model. <i>Physics of Fluids</i> , 2018 , 30, 035104	4.4	14
109	Effect of Local Coil Density on Blood Flow Stagnation in Densely Coiled Cerebral Aneurysms: A Computational Study Using a Cartesian Grid Method. <i>Journal of Biomechanical Engineering</i> , 2018 , 140,	2.1	4
108	Physically consistent data assimilation method based on feedback control for patient-specific blood flow analysis. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018 , 34, e2910	2.6	5
107	One (sub-)acinus for all: Fate of inhaled aerosols in heterogeneous pulmonary acinar structures. <i>European Journal of Pharmaceutical Sciences</i> , 2018 , 113, 53-63	5.1	30
106	A study on differences of production mechanisms between sibilant fricatives /s/ and /sh/. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2018 , 2018, J1020102	0	
105	Direct numerical simulation of expiratory crackles: Relationship between airway closure dynamics and acoustic fluctuations. <i>Journal of Biomechanics</i> , 2017 , 50, 234-239	2.9	2

104	Minimizing the blood velocity differences between phase-contrast magnetic resonance imaging and computational fluid dynamics simulation in cerebral arteries and aneurysms. <i>Medical and Biological Engineering and Computing</i> , 2017 , 55, 1605-1619	3.1	17
103	Effects of tongue position in the simplified vocal tract model of Japanese sibilant fricatives /s/ and /ʃ/. <i>Journal of the Acoustical Society of America</i> , 2017 , 141, EL314	2.2	9
102	Model-based inverse estimation for active contraction stresses of tongue muscles using 3D surface shape in speech production. <i>Journal of Biomechanics</i> , 2017 , 64, 69-76	2.9	5
101	Computational Study of the Non-Newtonian Effect of Blood on Flow Stagnation in a Coiled Cerebral Aneurysm. <i>Nihon Reorji Gakkaishi</i> , 2017 , 45, 243-249	0.8	6
100	Computational study for the effects of coil configuration on blood flow characteristics in coil-embolized cerebral aneurysm. <i>Medical and Biological Engineering and Computing</i> , 2017 , 55, 697-710	3.1	12
99	Aeroacoustic analysis of fricatives /s/ and /sh/ using simplified vocal tract model. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2017 , 2017.29, 1C41	0	
98	Computational study of patient-specific blood flow simulation on cerebral aneurysm with PC-MRI measurement using feedback control based data assimilation method. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2017 , 2017.29, 2C41	0	
97	A Computational Framework for Personalized Blood Flow Analysis in the Human Left Atrium. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 3284-3294	4.7	45
96	1E21 Inverse analysis of cell traction force using depth expansion model. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2016 , 2016.28, _1E21-1_ _1E21-4_	0	
95	A blood flow analysis method based on variational data assimilation for patient-specific medical support. <i>The Proceedings of the JSME Conference on Frontiers in Bioengineering</i> , 2016 , 2016.27, B207	0	
94	A Computational Approach for Blood Flow Analysis in the Densely Coiled Cerebral Aneurysm 2016 ,		1
93	Collapse of a lipid-coated nanobubble and subsequent liposome formation. <i>Scientific Reports</i> , 2016 , 6, 28164	4.9	22
92	Changes in lung sounds during asthma progression in a guinea pig model. <i>Allergology International</i> , 2016 , 65, 425-431	4.4	4
91	Morphological Characterization of Acinar Cluster in Mouse Lung Using a Multiscale-based Segmentation Algorithm on Synchrotron Micro-CT Images. <i>Anatomical Record</i> , 2016 , 299, 1424-34	2.1	10
90	Mathematical model of a heterogeneous pulmonary acinus structure. <i>Computers in Biology and Medicine</i> , 2015 , 62, 25-32	7	20
89	Computational studies on strain transmission from a collagen gel construct to a cell and its internal cytoskeletal filaments. <i>Computers in Biology and Medicine</i> , 2015 , 56, 20-9	7	4
88	Computational model of coil placement in cerebral aneurysm with using realistic coil properties. <i>Journal of Biomechanical Science and Engineering</i> , 2015 , 10, 15-00555-15-00555	0.8	7
87	Aeroacoustic sound alteration in airway bronchoconstriction, represented by a constricted T-branch model. <i>Journal of Biomechanical Science and Engineering</i> , 2015 , 10, 14-00246-14-00246	0.8	1

86	Line tension of the pore edge in phospholipid/cholesterol bilayer from stretch molecular dynamics simulation. <i>Journal of Biomechanical Science and Engineering</i> , 2015 , 11, 15-00422-15-00422	0.8	1
85	Effects of Stretching Speed on Mechanical Rupture of Phospholipid/Cholesterol Bilayers: Molecular Dynamics Simulation. <i>Scientific Reports</i> , 2015 , 5, 15369	4.9	36
84	1A25 Study of respiratory sound using the aeroacoustic analysis with the low-Mach number approximation. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2015 , 2015.27, 23	0	
83	Lung sound generation and propagation in the airway: Understanding from the aeroacoustics. <i>Nihon Shoni Arerugi Gakkaishi the Japanese Journal of Pediatric Allergy and Clinical Immunology</i> , 2015 , 29, 58-64	0.1	
82	J1050105 Aeroacoustic analysis of sibilant /s/ simplified vocal tract model. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2015 , 2015, _J1050105--_J1050105-	0	
81	1C42 Molecular dynamics simulation of water permeability through stretched phospholipid/cholesterol bilayer. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2015 , 2015.27, 127-128	0	
80	PS3-5 MOLECULAR PERSPECTIVE OF WATER PERMEABILITY CHANGES IN PHOSPHOLIPID/CHOLESTEROL BILAYER UNDER MECHANICAL STRESSES(PS3: Poster Short Presentation III,Poster Session). <i>The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics</i> , 2015 , 2015.8, 266		
79	1B16 Effect of extracted geometries with different threshold image intensities on the patient-specific blood flow analysis with the PC-MRI based data assimilation technique. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2015 , 2015.27, 59-60	0	
78	PS1-12 ACOUSTIC SOURCE DETECTION OF REALISTIC AIRWAY MODEL USING MICROPHONE ARRAY SYSTEM AND AEROACOUSTIC ANALYSIS(PS1: Poster Short Presentation I,Poster Session). <i>The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics</i> , 2015 , 2015.8, 265		
77	PS1-15 MICRO-CT-BASED MORPHOLOGICAL MEASUREMENT OF MOUSE ACINAR CLUSTER AND THE OXYGEN DIFFUSION ANALYSIS(PS1: Poster Short Presentation I,Poster Session). <i>The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics</i> , 2015 , 2015.8, 236		
76	2F33 Modeling of heterogeneous micro vasculature network at the pulmonary acinus level. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2015 , 2015.27, 535-536	0	
75	Elastic behavior of a red blood cell with the membrane's nonuniform natural state: equilibrium shape, motion transition under shear flow, and elongation during tank-treading motion. <i>Biomechanics and Modeling in Mechanobiology</i> , 2014 , 13, 735-46	3.8	26
74	Molecular dynamics simulations of pore formation in stretched phospholipid/cholesterol bilayers. <i>Chemistry and Physics of Lipids</i> , 2014 , 183, 43-9	3.7	25
73	A feedback-type data-assimilation method for blood flow analysis incorporating the physical consistency. <i>The Proceedings of the Computational Mechanics Conference</i> , 2014 , 2014.27, 432-433	0	
72	2A16 Estimation of Critical Radius of Reversible Pore in Cell Membranes Using Molecular Dynamics Simulation. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2014 , 2014.26, 261-262	0	
71	J0910105 Effects of cross-sectional shape in coronal plane on the sound generation of sibilant /s/. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2014 , 2014, _J0910105--_J0910105-	0	
70	J0240103 Molecular Dynamics Simulation of L _β Phase Formation in Stretched Phospholipid/Cholesterol Bilayer : Toward Understanding Mechanical Hemolysis. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2014 , 2014, _J0240103--_J0240103-	0	
69	1A42 Structural changes of cell membranes induced by shock waves : Molecular dynamics simulations. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2014 , 2014.26, 39	0	

68	2B13 The effect of heterogeneous micro structure of pulmonary acinus on the oxygen uptake at alveoli. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014</i> , 2014.26, 297-298		0
67	S0220203 Computational analysis of coil distribution in the cerebral aneurysm. <i>The Proceedings of Mechanical Engineering Congress Japan, 2014</i> , 2014, _S0220203--_S0220203-		0
66	1B16 Pulmonary acinar morphological measurement and analysis using 3D micro-CT based models extracted by multiscale-based segmentation algorithm. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014</i> , 2014.26, 53-54		0
65	Computational fluid dynamics of blood flow in coil-embolized aneurysms: effect of packing density on flow stagnation in an idealized geometry. <i>Medical and Biological Engineering and Computing, 2013</i> , 51, 901-10	3.1	31
64	Development of a Virtual Coil Model for Blood Flow Simulation in Coil-Embolyzed Aneurysms 2013 ,		1
63	A semiautomatic segmentation algorithm for extracting the complete structure of acini from synchrotron micro-CT images. <i>Computational and Mathematical Methods in Medicine, 2013</i> , 2013, 575086 ^{2.8}		6
62	2503 A measurement-integrated simulation of blood flow based on optimization method. <i>The Proceedings of the Computational Mechanics Conference, 2013</i> , 2013.26, _2503-1-_2503-2_		0
61	WS23 The role of biomechanical simulation in predictive medicine. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2013</i> , 2013.25, 56		0
60	2502 Numerical Simulation for Dynamic Motion of Red Blood Cell based on Membrane Viscoelasticity Model. <i>The Proceedings of the Computational Mechanics Conference, 2013</i> , 2013.26, _2502 ^{0.1} -1-_2502-2_		0
59	J021025 Numerical study of hemodynamic effects on coil embolization in patient-specific models of cerebral aneurysm. <i>The Proceedings of Mechanical Engineering Congress Japan, 2013</i> , 2013, _J021025-1-_J021025-5		0
58	Contribution of actin filaments to the global compressive properties of fibroblasts. <i>Journal of the Mechanical Behavior of Biomedical Materials, 2012</i> , 14, 192-8	4.1	13
57	Effect of expiratory flow rate on the acoustic characteristics of sibilant /s/. <i>Journal of Computational Science, 2012</i> , 3, 298-305	3.4	4
56	Spring Network Modeling Based on the Minimum Energy Concept 2012 , 141-179		
55	Effects of Cytoskeletal Orientations on Deformation of a Cell Residing in a Collagen Gel Construct. <i>Journal of Biomechanical Science and Engineering, 2012</i> , 7, 2-14	0.8	1
54	Mechanics of Biofluids and Computational Analysis 2012 , 87-140		
53	A108 Computational analysis of oxygen diffusion in the pulmonary acinus using the heterogeneous structure model. <i>The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2012</i> , 2012.23, 15-16		0
52	J026016 Molecular dynamics simulations of ionic transport across a lipid bilayer under ultrasound exposure. <i>The Proceedings of Mechanical Engineering Congress Japan, 2012</i> , 2012, _J026016-1-_J026016-2		0
51	J025011 Computational study of dynamic motion of hyperelastic membrane imposing surface incompressibility. <i>The Proceedings of Mechanical Engineering Congress Japan, 2012</i> , 2012, _J025011-1-_J025011-5		0

50	802 Numerical simulation for dynamic motion of red blood cells with membrane viscoelasticity. <i>The Proceedings of the Computational Mechanics Conference, 2012, 2012.25, 1-2</i>	○	
49	7E32 Structural changes of a lipid bilayer in the molecular level under ultrasound exposure. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2012, 2012.24, 7E32</i>	○	
48	Computational Fluid Dynamics of Blood Flow in an Extracorporeal Blood Circuit for the Analysis of Thrombogenic Hemodynamic Factors. <i>Journal of Biomechanical Science and Engineering, 2011, 6, 89-100</i>	○.8	
47	Elasticity and viscoelasticity of embolization microspheres. <i>Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 2161-7</i>	4.1	33
46	A fourth-order Cartesian local mesh refinement method for the computational fluid dynamics of physiological flow in multi-generation branched vessels. <i>International Journal for Numerical Methods in Biomedical Engineering, 2011, 27, 424-435</i>	2.6	1
45	A223 Simulation of cell adhesion and spreading using mechano-cell model. <i>The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2011, 2011.22, 123-124</i>	○	
44	8H-16 Computational studies on the strain transmission from a biological tissue to a cell and cytoskeletons. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2011, 2010.23, 279-280</i>	○	
43	9D-18 Effects of the Expiratory Flow Rate on the Acoustic Nature of Sibilant /s/. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2011, 2010.23, 523-524</i>	○	
42	Effects of the Initial Orientation of Actin Fibers on Global Tensile Properties of Cells. <i>Journal of Biomechanical Science and Engineering, 2010, 5, 515-525</i>	0.8	5
41	Mesoscopic Blood Flow Simulation Considering Hematocrit-Dependent Viscosity. <i>Journal of Biomechanical Science and Engineering, 2010, 5, 578-590</i>	0.8	8
40	Elastic characteristics of microspherical embolic agents used for vascular interventional radiology. <i>Journal of the Mechanical Behavior of Biomedical Materials, 2010, 3, 497-503</i>	4.1	17
39	Proposed spring network cell model based on a minimum energy concept. <i>Annals of Biomedical Engineering, 2010, 38, 1530-8</i>	4.7	37
38	A three-dimensional particle simulation of the formation and collapse of a primary thrombus. <i>International Journal for Numerical Methods in Biomedical Engineering, 2010, 26, 488-500</i>	2.6	35
37	J0504-5-3 Study on the Production of Sibilant/s/by simultaneous Measurements of Aeroacoustic Sound and Vibration of an Obstacle Wall. <i>The Proceedings of the JSME Annual Meeting, 2010, 2010.7, 111-112</i>		
36	T0201-1-5 Changes in surface area and volume of fibroblasts during cell spreading on the substrate. <i>The Proceedings of the JSME Annual Meeting, 2010, 2010.8, 137-138</i>		
35	A109 Simultaneous measurement of aero acoustic sound and vibration radiated from a intra-oral cavity model with a lower tooth : Effects of a velocity at the sibilant groove. <i>The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2010, 2010.21, 17-18</i>	○	
34	A211 Effect of actin filaments on the global compressive properties of single fibroblasts. <i>The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2010, 2010.21, 59-60</i>	○	
33	2009 Computer simulation of the deformation of an adherent cell under substrate stretching. <i>The Proceedings of the Computational Mechanics Conference, 2010, 2010.23, 18-19</i>	○	

32	S0201-2-6 Effect of disruption of central stress fibers on the tensile properties of fibroblasts. <i>The Proceedings of the JSME Annual Meeting</i> , 2009 , 2009.5, 23-24		
31	333 Proposal of hemolysis indices based on the deformation analysis of a flowing RBC. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2009 , 2008.21, 367-368	○	
30	B208 Effects of stress fibers on the tensile properties of fibroblasts. <i>The Proceedings of the JSME Conference on Frontiers in Bioengineering</i> , 2009 , 2009.20, 107-108	○	
29	2015 Compressive test of a cell based on energy minimum principle. <i>The Proceedings of the Computational Mechanics Conference</i> , 2009 , 2009.22, 771-772	○	
28	B211 Deformation of a fast-flowing red blood cell toward a wall. <i>The Proceedings of the JSME Conference on Frontiers in Bioengineering</i> , 2009 , 2009.20, 113-114	○	
27	A Rule-Based Computational Study on the Early Progression of Intracranial Aneurysms Using Fluid-Structure Interaction: Comparison between Straight Model and Curved Model. <i>Journal of Biomechanical Science and Engineering</i> , 2008 , 3, 124-137	0.8	13
26	332 Proposal of the Mechanical Model of a Cell Considering Membrane, Cytoskeleton and Nucleus. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2008 , 2007.20, 327-328	○	
25	752 Analysis of Dynamic Deformation of a Flowing Red Blood Cell : Comparison with Conventional Hemolysis Indices. <i>The Proceedings of the Computational Mechanics Conference</i> , 2008 , 2008.21, 867-868	○	
24	750 Effects of initial tension in actin filaments on the single cell tensile properties. <i>The Proceedings of the Computational Mechanics Conference</i> , 2008 , 2008.21, 864-865	○	
23	113 Dynamic deformation analysis of a red blood cell in steady and unsteady shear flow. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2008 , 2007.20, 25-26	○	
22	B423 Effects of the disruption of cytoskeleton on the three-dimensional morphology of fibroblasts. <i>The Proceedings of the JSME Conference on Frontiers in Bioengineering</i> , 2008 , 2008.19, 175-176	○	
21	COMPUTATIONAL APPROACH TO LEFT VENTRICULAR FLOW FOR DEVELOPING CLINICAL APPLICATIONS 2007 , 167-191		1
20	Analysis of Destruction Process of the Primary Thrombus Under the Influence of the Blood Flow. <i>Journal of Biomechanical Science and Engineering</i> , 2007 , 2, 34-44	0.8	5
19	Measurement of Blood Flow in the Left Ventricle and Aorta Using Clinical 2D Cine Phase-Contrast Magnetic Resonance Imaging. <i>Journal of Biomechanical Science and Engineering</i> , 2007 , 2, 46-57	0.8	8
18	Effect of Wall Motion on Arterial Wall Shear Stress. <i>Journal of Biomechanical Science and Engineering</i> , 2007 , 2, 58-68	0.8	6
17	2206 Deformation Analysis of a Red Blood Cell Flowing in a Disturbed Flow. <i>The Proceedings of the Computational Mechanics Conference</i> , 2007 , 2007.20, 331-332	○	
16	2205 Proposal of a Membrane/Cytoskeleton Included Cell Model for the Simulation of Tensile and Compressive Tests. <i>The Proceedings of the Computational Mechanics Conference</i> , 2007 , 2007.20, 329-330	○	
15	1101 Relationship between an abnormal respiratory sound and an airflow rate in childhood asthma. <i>The Proceedings of the JSME Annual Meeting</i> , 2007 , 2007.5, 269-270		

14	Relationship between an abnormal respiratory sound and an airflow rate in childhood asthma(3C1 Cardiopulmonary & Respiratory Mechanics). <i>The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics</i> , 2007 , 2007.3, S201		
13	EFFECTS OF THE DISRUPTION OF ACTIN FILAMENTS AND MICROTUBULES ON THE MORPHOLOGY AND TENSILE PROPERTIES OF FIBROBLASTS(1A2 Micro & Nano Biomechanics II). <i>The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics</i> , 2007 , 2007.3, S111		
12	1001 Effects of Disruption of Actin Filaments and Microtubules on the Compressive Properties of Fibroblasts. <i>The Proceedings of the JSME Annual Meeting</i> , 2007 , 2007.5, 203-204		
11	EFFECTS OF GAMMA-RAY IRRADIATION ON THE MECHANICAL PROPERTIES AND DEGRADATION RATE OF POLY-L-LACTIC ACID MESH(3A2 Cellular & Tissue Engineering & Biomaterials II). <i>The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics</i> , 2007 , 2007.3, S171		
10	PROPOSAL OF MESOSCOPIC ANALYSIS METHOD OF BLOOD RHEOLOGY(3D2 Biorheology & Microcirculation I). <i>The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics</i> , 2007 , 2007.3, S228		
9	COMPUTATIONAL STUDY OF PLATELET THROMBUS FORMATION IN A BLOOD FLOW(3D2 Biorheology & Microcirculation I). <i>The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics</i> , 2007 , 2007.3, S225		
8	EFFECT OF PASSAGE ON THE COMPRESSIVE PROPERTIES OF CULTURED CHONDROCYTES(1A1 Micro & Nano Biomechanics I). <i>The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics</i> , 2007 , 2007.3, S5		
7	1123 Mesoscopic Analysis of Red Blood Cells Flowing through a Micro Blood Vessel. <i>The Proceedings of the JSME Annual Meeting</i> , 2007 , 2007.6, 85-86		
6	Simulation Study on Effects of Hematocrit on Blood Flow Properties Using Particle Method. <i>Journal of Biomechanical Science and Engineering</i> , 2006 , 1, 159-170	0.8	61
5	HOME-HEALTH CARE SUPPORT SYSTEM FOR CAREGIVERS USING WEARABLE SYSTEM 2006 ,		2
4	A FLUID-SOLID INTERACTION STUDY OF THE PULSE WAVE VELOCITY IN UNIFORM ARTERIES 2006 ,		2
3	530 Rule-Based Simulation for Prediction of the Development of Aneurysm. <i>The Proceedings of the Computational Mechanics Conference</i> , 2006 , 2006.19, 505-506	0	
2	757 Computational Analysis of Wall Thickness at a Three-dimensional Bifurcation Based on the Uniform Strain Hypothesis. <i>The Proceedings of the JSME Annual Meeting</i> , 2006 , 2006.6, 55-56		
1	Numerical Simulation of Various Shape Changes of a Swollen Red Blood Cell by Decrease of Its Volume.. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2003 , 69, 14-21		33