Shigeo Wada

List of Publications by Year
in descending order

148 papers	**1,027** citations	471509 **17** h-index	501196 **28** g-index
150 all docs	**150** docs citations	**150** times ranked	**1227** citing authors

#	ARTICLE	IF	CITATIONS
1	A concept on velocity estimation from magnetic resonance velocity images based on variational optimal boundary control. Journal of Biomechanical Science and Engineering, 2022, , .	0.3	1
2	On the Impact of Left Upper Lobectomy on the Left Atrial Hemodynamics. Frontiers in Physiology, 2022, 13, 830436.	2.8	5
3	A subjectâ€specific assessment of measurement errors and their correction in cerebrospinal fluid velocity maps using 4D flow MRI. Magnetic Resonance in Medicine, 2022, 87, 2412-2423.	3.0	9
4	Assessment of cardiac function using the modified ejection fraction as an indicator of myocardial circumferential strain. Journal of Biomechanical Science and Engineering, 2022, 17, .	0.3	0
5	Airway performance in infants with congenital tracheal stenosis associated with unilateral pulmonary agenesis: effect of tracheal shape on energy flux. Medical and Biological Engineering and Computing, 2022, 60, 2335-2348.	2.8	2
6	Effects of Left Ventricular Hypertrophy and Myocardial Stiffness on Myocardial Strain Under Preserved Ejection Fraction. Annals of Biomedical Engineering, 2021, 49, 1670-1687.	2.5	9
7	Cerebrospinal fluid flow driven by arterial pulsations in axisymmetric perivascular spaces: Analogy with Taylorâ€™s swimming sheet. Journal of Theoretical Biology, 2021, 523, 110709.	1.7	6
8	Development of a mesoscopic framework spanning nanoscale protofibril dynamics to macro-scale fibrin clot formation. Journal of the Royal Society Interface, 2021, 18, 20210554.	3.4	3
9	Modeling of endovascular coiling for cerebral aneurysms: Effects of friction on coil mechanical behaviors. International Journal of Mechanical Sciences, 2020, 166, 105206.	6.7	1
10	Kelvin-Helmholtz-like instability of phospholipid bilayers under shear flow: System-size dependence. Physical Review E, 2020, 102, 022408.	2.1	4
11	A braided stent becomes flattened inside a curved catheter tube: A micro-CT imaging study. Bio-Medical Materials and Engineering, 2020, 31, 373-380.	0.6	0
12	Multiscale modeling of human cerebrovasculature: A hybrid approach using image-based geometry and a mathematical algorithm. PLoS Computational Biology, 2020, 16, e1007943.	3.2	22
13	Computational modeling of braided-stent deployment for interpreting the mechanism of stent flattening. International Journal for Numerical Methods in Biomedical Engineering, 2020, , .	2.1	2
14	Title is missing!. , 2020, 16, e1007943.		0
15	Title is missing!. , 2020, 16, e1007943.		0
16	Title is missing!. , 2020, 16, e1007943.		0
17	Title is missing!. , 2020, 16, e1007943.		0
18	Title is missing!. , 2020, 16, e1007943.		0

#	Article	IF	Citations
19	Title is missing!. , 2020, 16, e1007943.		0
20	Targeting inhaled fibers to the pulmonary acinus: Opportunities for augmented delivery from in silico simulations. European Journal of Pharmaceutical Sciences, 2019, 137, 105003.	4.0	17
21	A simplified vocal tract model for articulation of [s]: The effect of tongue tip elevation on [s]. PLoS ONE, 2019, 14, e0223382.	2.5	5
22	How to Measure Cellular Shear Modulus Inside a Chip: Detailed Correspondence to the Fluid-Structure Coupling Analysis. , 2019, , .		2
23	Aeroacoustic analysis on individual characteristics in sibilant fricative production. Journal of the Acoustical Society of America, 2019, 146, 1239-1251.	1.1	15
24	Haemorheology in dilute, semi-dilute and dense suspensions of red blood cells. Journal of Fluid Mechanics, 2019, 872, 818-848.	3.4	25
25	Deformation of a Red Blood Cell in a Narrow Rectangular Microchannel. Micromachines, 2019, 10, 199.	2.9	19
26	Bicelle-to-Vesicle Transition of a Binary Phospholipid Mixture Guided by Controlled Local Lipid Compositions: A Molecular Dynamics Simulation Study. Journal of Physical Chemistry B, 2019, 123, 3118-3123.	2.6	14
27	Capture event of platelets by bolus flow of red blood cells in capillaries. Journal of Biomechanical Science and Engineering, 2019, 14, 18-00535-18-00535.	0.3	4
28	Performance assessment of displacement-field estimation of the human left atrium from 4D-CT images using the coherent point drift algorithm. Computers in Biology and Medicine, 2019, 114, 103454.	7.0	10
29	Fluid dynamic assessment of tracheal flow in infants with congenital tracheal stenosis before and after surgery. Medical and Biological Engineering and Computing, 2019, 57, 837-847.	2.8	4
30	Heterogeneous structure and surface tension effects on mechanical response in pulmonary acinus: A finite element analysis. Clinical Biomechanics, 2019, 66, 32-39.	1.2	12
31	Molecular Dynamics Simulation of Peptide-embedded Liposome Formation. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2019, 2019.30, 1A33.	0.0	0
32	Stretch-Induced Interdigitation of a Phospholipid/Cholesterol Bilayer. Journal of Physical Chemistry B, 2018, 122, 2556-2563.	2.6	7
33	Experimental and numerical investigation of the sound generation mechanisms of sibilant fricatives using a simplified vocal tract model. Physics of Fluids, 2018, 30, 035104.	4.0	19
34	Effect of Local Coil Density on Blood Flow Stagnation in Densely Coiled Cerebral Aneurysms: A Computational Study Using a Cartesian Grid Method. Journal of Biomechanical Engineering, 2018, 140, .	1.3	5
35	Physically consistent data assimilation method based on feedback control for patientâ€specific blood flow analysis. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2910.	2.1	6
36	One (sub-)acinus for all: Fate of inhaled aerosols in heterogeneous pulmonary acinar structures. European Journal of Pharmaceutical Sciences, 2018, 113, 53-63.	4.0	36

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37	A study on differences of production mechanisms between sibilant fricatives /s/ and /sh/. The Proceedings of Mechanical Engineering Congress Japan, 2018, 2018, J1020102.	0.0	0
38	10.1063/1.5013632.1. , 2018, , .		0
39	Direct numerical simulation of expiratory crackles: Relationship between airway closure dynamics and acoustic fluctuations. Journal of Biomechanics, 2017, 50, 234-239.	2.1	3
40	Minimizing the blood velocity differences between phase-contrast magnetic resonance imaging and computational fluid dynamics simulation in cerebral arteries and aneurysms. Medical and Biological Engineering and Computing, 2017, 55, 1605-1619.	2.8	19
41	Effects of tongue position in the simplified vocal tract model of Japanese sibilant fricatives /s/ and /Êƒ/. Journal of the Acoustical Society of America, 2017, 141, EL314-EL318.	1.1	13
42	Model-based inverse estimation for active contraction stresses of tongue muscles using 3D surface shape in speech production. Journal of Biomechanics, 2017, 64, 69-76.	2.1	7
43	Computational study for the effects of coil configuration on blood flow characteristics in coil-embolized cerebral aneurysm. Medical and Biological Engineering and Computing, 2017, 55, 697-710.	2.8	17
44	Computational Study of the Non-Newtonian Effect of Blood on Flow Stagnation in a Coiled Cerebral Aneurysm. Nihon Reoroji Gakkaishi, 2017, 45, 243-249.	1.0	7
45	Aeroacoustic analysis of fricatives /s/ and /sh/ using simplified vocal tract model. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2017, 2017.29, 1C41.	0.0	0
46	Computational study of patient-specific blood flow simulation on cerebral aneurysm with PC-MRI measurement using feedback control based data assimilation method. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2017, 2017.29, 2C41.	0.0	0
47	A Computational Approach for Blood Flow Analysis in the Densely Coiled Cerebral Aneurysm. , 2016, , .		1
48	Patient-Specific Blood Flows Simulation on Cerebral Aneurysm Based on Physically Consistency Feedback Control. , 2016, , .		0
49	Collapse of a lipid-coated nanobubble and subsequent liposome formation. Scientific Reports, 2016, 6, 28164.	3.3	26
50	Changes in lung sounds during asthma progression in a guinea pig model. Allergology International, 2016, 65, 425-431.	3.3	4
51	Morphological Characterization of Acinar Cluster in Mouse Lung Using a Multiscaleâ€based Segmentation Algorithm on Synchrotron Microâ€CT Images. Anatomical Record, 2016, 299, 1424-1434.	1.4	10
52	A Computational Framework for Personalized Blood Flow Analysis in the Human Left Atrium. Annals of Biomedical Engineering, 2016, 44, 3284-3294.	2.5	92
53	1E21 Inverse analysis of cell traction force using depth expansion model. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2016, 2016.28, _1E21-1_-_1E21-4_.	0.0	0
54	A blood flow analysis method based on variational data assimilation for patient-specific medical support. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2016, 2016.27, B207.	0.0	0

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55	Computational model of coil placement in cerebral aneurysm with using realistic coil properties. Journal of Biomechanical Science and Engineering, 2015, 10, 15-00555-15-00555.	0.3	12
56	Aeroacoustic sound alteration in airway bronchoconstriction, represented by a constricted T-branch model. Journal of Biomechanical Science and Engineering, 2015, 10, 14-00246-14-00246.	0.3	1
57	Line tension of the pore edge in phospholipid/cholesterol bilayer from stretch molecular dynamics simulation. Journal of Biomechanical Science and Engineering, 2015, 11, 15-00422-15-00422.	0.3	5
58	Effects of Stretching Speed on Mechanical Rupture of Phospholipid/Cholesterol Bilayers: Molecular Dynamics Simulation. Scientific Reports, 2015, 5, 15369.	3.3	49
59	Mathematical model of a heterogeneous pulmonary acinus structure. Computers in Biology and Medicine, 2015, 62, 25-32.	7.0	26
60	Computational studies on strain transmission from a collagen gel construct to a cell and its internal cytoskeletal filaments. Computers in Biology and Medicine, 2015, 56, 20-29.	7.0	6
61	1A25 Study of respiratory sound using the aeroacoustic analysis with the low-Mach number approximation. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 23.	0.0	0
62	Lung sound generation and propagation in the airway: Understanding from the aeroacoustics. Nihon Shoni Arerugi Gakkaishi the Japanese Journal of Pediatric Allergy and Clinical Immunology, 2015, 29, 58-64.	0.2	0
63	J1050105 Aeroacoustic analysis of sibilant /s/ simplified vocal tract model. The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015, _J1050105--_J1050105-.	0.0	0
64	1C42 Molecular dynamics simulation of water permeability through stretched phospholipid/cholesterol bilayer. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 127-128.	0.0	0
65	PS3-5 MOLECULAR PERSPECTIVE OF WATER PERMEABILITY CHANGES IN PHOSPHOLIPID/CHOLESTEROL BILAYER UNDER MECHANICAL STRESSES(PS3: Poster Short Presentation III,Poster Session). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2015, 2015.8, 266.	0.0	0
66	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. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 59-60.	0.0	0
67	PS1-12 ACOUSTIC SOURCE DETECTION OF REALISTIC AIRWAY MODEL USING MICROPHONE ARRAY SYSTEM AND AEROACOUSTIC ANALYSIS(PS1: Poster Short Presentation I,Poster Session). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2015, 2015.8, 233.	0.0	0
68	PS1-15 MICRO-CT-BASED MORPHOLOGICAL MEASUREMENT OF MOUSE ACINAR CLUSTER AND THE OXYGEN DIFFUSION ANALYSIS(PS1: Poster Short Presentation I,Poster Session). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2015, 2015.8, 236.	0.0	0
69	2F33 Modeling of heterogeneous micro vasculature network at the pulmonary acinus level. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 535-536.	0.0	0
70	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. Biomechanics and Modeling in Mechanobiology, 2014, 13, 735-746.	2.8	33
71	Molecular dynamics simulations of pore formation in stretched phospholipid/cholesterol bilayers. Chemistry and Physics of Lipids, 2014, 183, 43-49.	3.2	31
72	A feedback-type data-assimilation method for blood flow analysis incorporating the physical consistency. The Proceedings of the Computational Mechanics Conference, 2014, 2014.27, 432-433.	0.0	0

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73	2A16 Estimation of Critical Radius of Reversible Pore in Cell Membranes Using Molecular Dynamics Simulation. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 261-262.	0.0	0
74	J0910105 Effects of cross-sectional shape in coronal plane on the sound generation of sibilant /s/. The Proceedings of Mechanical Engineering Congress Japan, 2014, 2014, _J0910105--_J0910105-.	0.0	0
75	J0240103 Molecular Dynamics Simulation of L_Î²I Phase Formation in Stretched Phospholipid/Cholesterol Bilayer : Toward Understanding Mechanical Hemolysis. The Proceedings of Mechanical Engineering Congress Japan, 2014, 2014, _J0240103--_J0240103-.	0.0	0
76	1A42 Structural changes of cell membranes induced by shock waves : Molecular dynamics simulations. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 39.	0.0	0
77	2B13 The effect of heterogeneous micro structure of pulmonary acinus on the oxygen uptake at alveoli. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 297-298.	0.0	0
78	S0220203 Computational analysis of coil distribution in the cerebral aneurysm. The Proceedings of Mechanical Engineering Congress Japan, 2014, 2014, _S0220203--_S0220203-.	0.0	0
79	1B16 Pulmonary acinar morphological measurement and analysis using 3D micro-CT based models extracted by multiscale-based segmentation algorithm. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 53-54.	0.0	0
80	Computational fluid dynamics of blood flow in coil-embolized aneurysms: effect of packing density on flow stagnation in an idealized geometry. Medical and Biological Engineering and Computing, 2013, 51, 901-910.	2.8	39
81	Development of a Virtual Coil Model for Blood Flow Simulation in Coil-Embolized Aneurysms. , 2013, , .		1
82	A Semiautomatic Segmentation Algorithm for Extracting the Complete Structure of Acini from Synchrotron Micro-CT Images. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-10.	1.3	8
83	2503 A measurement-integrated simulation of blood flow based on optimization method. The Proceedings of the Computational Mechanics Conference, 2013, 2013.26, _2503-1_-_2503-2_.	0.0	0
84	WS23 The role of biomechanical simulation in predictive medicine. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2013, 2013.25, 56.	0.0	0
85	2502 Numerical Simulation for Dynamic Motion of Red Blood Cell based on Membrane Viscoelasticity Model. The Proceedings of the Computational Mechanics Conference, 2013, 2013.26, _2502-1_-_2502-2_.	0.0	0
86	J021025 Numerical study of hemodynamic effects on coil embolization in patient-specific models of cerebral aneurysm. The Proceedings of Mechanical Engineering Congress Japan, 2013, 2013, _J021025-1-_J021025-5.	0.0	0
87	Effects of Cytoskeletal Orientations on Deformation of a Cell Residing in a Collagen Gel Construct. Journal of Biomechanical Science and Engineering, 2012, 7, 2-14.	0.3	5
88	Contribution of actin filaments to the global compressive properties of fibroblasts. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 14, 192-198.	3.1	15
89	Effect of expiratory flow rate on the acoustic characteristics of sibilant /s/. Journal of Computational Science, 2012, 3, 298-305.	2.9	5
90	Spring Network Modeling Based on the Minimum Energy Concept. , 2012, , 141-179.		0

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91	Mechanics of Biofluids and Computational Analysis. , 2012, , 87-140.		0
92	A108 Computational analysis of oxygen diffusion in the pulmonary acinus using the heterogeneous structure model. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2012, 2012.23, 15-16.	0.0	0
93	J026016 Molecular dynamics simulations of ionic transport across a lipid bilayer under ultrasound exposure. The Proceedings of Mechanical Engineering Congress Japan, 2012, 2012, _J026016-1-_J026016-2.	0.0	0
94	J025011 Computational study of dynamic motion of hyperelastic membrane imposing surface incompressibility. The Proceedings of Mechanical Engineering Congress Japan, 2012, 2012, _J025011-1-_J025011-5.	0.0	0
95	802 Numerical simulation for dynamic motion of red blood cells with membrane viscoelasticity. The Proceedings of the Computational Mechanics Conference, 2012, 2012.25, 1-2.	0.0	0
96	7E32 Structural changes of a lipid bilayer in the molecular level under ultrasound exposure. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2012, 2012.24, 7E32.	0.0	0
97	Computational Fluid Dynamics of Blood Flow in an Extracorporeal Blood Circuit for the Analysis of Thrombogenic Hemodynamic Factors. Journal of Biomechanical Science and Engineering, 2011, 6, 89-100.	0.3	0
98	Elasticity and viscoelasticity of embolization microspheres. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 2161-2167.	3.1	41
99	A fourth-order Cartesian local mesh refinement method for the computational fluid dynamics of physiological flow in multi-generation branched vessels. International Journal for Numerical Methods in Biomedical Engineering, 2011, 27, 424-435.	2.1	2
100	A223 Simulation of cell adhesion and spreading using mechano-cell model. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2011, 2011.22, 123-124.	0.0	0
101	8H-16 Computational studies on the strain transmission from a biological tissue to a cell and cytoskeletons. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2011, 2010.23, 279-280.	0.0	0
102	9D-18 Effects of the Expiratory Flow Rate on the Acoustic Nature of Sibilant /s/. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2011, 2010.23, 523-524.	0.0	0
103	Effects of the Initial Orientation of Actin Fibers on Global Tensile Properties of Cells. Journal of Biomechanical Science and Engineering, 2010, 5, 515-525.	0.3	7
104	Mesoscopic Blood Flow Simulation Considering Hematocrit-Dependent Viscosity. Journal of Biomechanical Science and Engineering, 2010, 5, 578-590.	0.3	10
105	Elastic characteristics of microspherical embolic agents used for vascular interventional radiology. Journal of the Mechanical Behavior of Biomedical Materials, 2010, 3, 497-503.	3.1	23
106	Proposed Spring Network Cell Model Based on a Minimum Energy Concept. Annals of Biomedical Engineering, 2010, 38, 1530-1538.	2.5	41
107	A three-dimensional particle simulation of the formation and collapse of a primary thrombus. International Journal for Numerical Methods in Biomedical Engineering, 2010, 26, 488-500.	2.1	46
108	Towards Sibilant [s] Physical Modeling: Numerical Study of the Influence of the Aperture of a Tooth-Shaped Constriction on the Flow-Induced Noise. , 2010, , .		0

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109	J0504-5-3 Study on the Production of Sibilant/s/by simultaneous Measurements of Aeroacoustic Sound and Vibration of an Obstacle Wall. The Proceedings of the JSME Annual Meeting, 2010, 2010.7, 111-112.	0.0	0
110	T0201-1-5 Changes in surface area and volume of fibroblasts during cell spreading on the substrate. The Proceedings of the JSME Annual Meeting, 2010, 2010.8, 137-138.	0.0	0
111	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. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2010, 2010.21, 17-18.	0.0	0
112	A211 Effect of actin filaments on the global compressive properties of single fibroblasts. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2010, 2010.21, 59-60.	0.0	0
113	2009 Computer simulation of the deformation of an adherent cell under substrate stretching. The Proceedings of the Computational Mechanics Conference, 2010, 2010.23, 18-19.	0.0	0
114	S0201-2-6 Effect of disruption of central stress fibers on the tensile properties of fibroblasts. The Proceedings of the JSME Annual Meeting, 2009, 2009.5, 23-24.	0.0	0
115	333 Proposal of hemolysis indices based on the deformation analysis of a flowing RBC. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2009, 2008.21, 367-368.	0.0	0
116	B208 Effects of stress fibers on the tensile properties of fibroblasts. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2009, 2009.20, 107-108.	0.0	0
117	2015 Compressive test of a cell based on energy minimum principle. The Proceedings of the Computational Mechanics Conference, 2009, 2009.22, 771-772.	0.0	0
118	B211 Deformation of a fast-flowing red blood cell toward a wall. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2009, 2009.20, 113-114.	0.0	0
119	A Rule-Based Computational Study on the Early Progression of Intracranial Aneurysms Using Fluid-Structure Interaction: Comparison between Straight Model and Curved Model. Journal of Biomechanical Science and Engineering, 2008, 3, 124-137.	0.3	14
120	332 Proposal of the Mechanical Model of a Cell Considering Membrane, Cytoskeleton and Nucleus. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2008, 2007.20, 327-328.	0.0	0
121	752 Analysis of Dynamic Deformation of a Flowing Red Blood Cell : Comparison with Conventional Hemolysis Indices. The Proceedings of the Computational Mechanics Conference, 2008, 2008.21, 867-868.	0.0	0
122	750 Effects of initial tension in actin filaments on the single cell tensile properties. The Proceedings of the Computational Mechanics Conference, 2008, 2008.21, 864-865.	0.0	0
123	113 Dynamic deformation analysis of a red blood cell in steady and unsteady shear flow. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2008, 2007.20, 25-26.	0.0	0
124	B423 Effects of the disruption of cytoskeleton on the three-dimensional morphology of fibroblasts. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2008, 2008.19, 175-176.	0.0	0
125	COMPUTATIONAL APPROACH TO LEFT VENTRICULAR FLOW FOR DEVELOPING CLINICAL APPLICATIONS. , 2007, , 167-191.		1
126	Analysis of Destruction Process of the Primary Thrombus Under the Influence of the Blood Flow. Journal of Biomechanical Science and Engineering, 2007, 2, 34-44.	0.3	6

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127	Measurement of Blood Flow in the Left Ventricle and Aorta Using Clinical 2D Cine Phase-Contrast Magnetic Resonance Imaging. Journal of Biomechanical Science and Engineering, 2007, 2, 46-57.	0.3	10
128	Effect of Wall Motion on Arterial Wall Shear Stress. Journal of Biomechanical Science and Engineering, 2007, 2, 58-68.	0.3	8
129	2206 Deformation Analysis of a Red Blood Cell Flowing in a Disturbed Flow. The Proceedings of the Computational Mechanics Conference, 2007, 2007.20, 331-332.	0.0	0
130	2205 Proposal of a Membrane/Cytoskeleton Included Cell Model for the Simulation of Tensile and Compressive Tests. The Proceedings of the Computational Mechanics Conference, 2007, 2007.20, 329-330.	0.0	0
131	1101 Relationship between an abnormal respiratory sound and an airflow rate in childhood asthma. The Proceedings of the JSME Annual Meeting, 2007, 2007.5, 269-270.	0.0	0
132	Relationship between an abnormal respiratory sound and an airflow rate in childhood asthma(3C1) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Biomechanics Emerging Science and Technology in Biomechanics, 2007, 2007.3, S201.	0.0	0
133	EFFECTS OF THE DISRUPTION OF ACTIN FILAMENTS AND MICROTUBULES ON THE MORPHOLOGY AND TENSILE PROPERTIES OF FIBROBLASTS(1A2 Micro & Nano Biomechanics II). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2007, 2007.3, S11.	0.0	0
134	1001 Effects of Disruption of Actin Filaments and Microtubules on the Compressive Properties of Fibroblasts. The Proceedings of the JSME Annual Meeting, 2007, 2007.5, 203-204.	0.0	0
135	EFFECTS OF GAMMA-RAY IRRADIATION ON THE MECHANICAL PROPERTIES AND DEGRADATION RATE OF POLY-L-LACTIC ACID MESH(3A2 Cellular & Tissue Engineering & Biomaterials II). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2007, 2007.3, S176.	0.0	0
136	PROPOSAL OF MESOSCOPIC ANALYSIS METHOD OF BLOOD RHEOLOGY(3D2 Biorheology &) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Science and Technology in Biomechanics, 2007, 2007.3, S228.	0.0	0
137	COMPUTATIONAL STUDY OF PLATELET THROMBUS FORMATION IN A BLOOD FLOW(3D2 Biorheology &) Tj ETQq1 1 0.784314 rgBT / Science and Technology in Biomechanics, 2007, 2007.3, S225.	0.0	0
138	EFFECT OF PASSAGE ON THE COMPRESSIVE PROPERTIES OF CULTURED CHONDROCYTES(1A1 Micro &) Tj ETQq0 0 0 rgBT /Overl Science and Technology in Biomechanics, 2007, 2007.3, S5.	0.0	0
139	1123 Mesoscopic Analysis of Red Blood Cells Flowing through a Micro Blood Vessel. The Proceedings of the JSME Annual Meeting, 2007, 2007.6, 85-86.	0.0	0
140	Simulation Study on Effects of Hematocrit on Blood Flow Properties Using Particle Method. Journal of Biomechanical Science and Engineering, 2006, 1, 159-170.	0.3	76
141	HOME-HEALTH CARE SUPPORT SYSTEM FOR CAREGIVERS USING WEARABLE SYSTEM. , 2006, , .		2
142	A FLUID-SOLID INTERACTION STUDY OF THE PULSE WAVE VELOCITY IN UNIFORM ARTERIES. , 2006, , .		2
143	NUMERICAL SIMULATION OF THE ARTERIAL WALL GROWTH INDUCED BY WALL SHEAR STRESS. , 2006, , .		0
144	530 Rule-Based Simulation for Prediction of the Development of Aneurysm. The Proceedings of the Computational Mechanics Conference, 2006, 2006.19, 505-506.	0.0	0

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145	757 Computational Analysis of Wall Thickness at a Three-dimensional Bifurcation Based on the Uniform Strain Hypothesis. The Proceedings of the JSME Annual Meeting, 2006, 2006.6, 55-56.	0.0	0
146	THE EFFECT OF THE INTERNAL CAROTID ARTERY FLOW ON THE HEMODYNAMICS IN THE DISTAL CEREBRAL ANEURYSM: A PATIENT-SPECIFIC CFD STUDY. , 2006, , .		0
147	A COMPUTER SIMULATION STUDY ON THE EARLY PROGRESSION OF INTRACRANIAL ANEURYSMS: A COMPARISON BETWEEN STRAIGHT MODEL AND CURVED MODEL. , 2006, , .		0
148	Numerical Simulation of Various Shape Changes of a Swollen Red Blood Cell by Decrease of Its Volume.. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2003, 69, 14-21.	0.2	37