

Zhi-Yong Li

List of Publications by Year in descending order

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Version: 2024-02-01

191
papers

4,440
citations

147726

31
h-index

138417

58
g-index

201
all docs

201
docs citations

201
times ranked

4624
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of Stroke Risk in Patients With Atrial Fibrillation Using Morphological and Hemodynamic Characteristics. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 842364.	1.1	5
2	Atomistic Investigation of the Titanium Carbide MXenes under Impact Loading. <i>Nanomaterials</i> , 2022, 12, 2456.	1.9	3
3	Evaluating the Impact of Calcification on Plaque Vulnerability from the Aspect of Mechanical Interaction Between Blood Flow and Artery Based on MRI. <i>Annals of Biomedical Engineering</i> , 2021, 49, 1169-1182.	1.3	14
4	Mechanics of Bacterial Interaction and Death on Nanopatterned Surfaces. <i>Biophysical Journal</i> , 2021, 120, 217-231.	0.2	51
5	Plaque Longitudinal Heterogeneity in Morphology, Property, and Mechanobiology. <i>Cerebrovascular Diseases</i> , 2021, 50, 510-519.	0.8	4
6	Computational Fluid Dynamics Simulations at Micro-Scale Stenosis for Microfluidic Thrombosis Model Characterization. <i>MCB Molecular and Cellular Biomechanics</i> , 2021, 18, 1-10.	0.3	7
7	Case Report: Evaluating Biomechanical Risk Factors in Carotid Stenosis by Patient-Specific Fluid-Structural Interaction Biomechanical Analysis. <i>Cerebrovascular Diseases</i> , 2021, 50, 262-269.	0.8	2
8	Impact of Coronary Artery Curvature on the Longitudinal Stent Foreshortening: Real-World Observations. <i>MCB Molecular and Cellular Biomechanics</i> , 2021, 18, 119-122.	0.3	0
9	Numerical Determination of the Circumferential Residual Stress of Porcine Aorta by Pulling-Back Method. <i>Acta Mechanica Solida Sinica</i> , 2021, 34, 346-355.	1.0	3
10	A prediction tool for plaque progression based on patient-specific multi-physical modeling. <i>PLoS Computational Biology</i> , 2021, 17, e1008344.	1.5	6
11	Impact of left atrial appendage location on risk of thrombus formation in patients with atrial fibrillation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2021, 20, 1431-1443.	1.4	24
12	Hemodynamic analysis for stenosis microfluidic model of thrombosis with refined computational fluid dynamics simulation. <i>Scientific Reports</i> , 2021, 11, 6875.	1.6	23
13	Mathematical modeling of intraplaque neovascularization and hemorrhage in a carotid atherosclerotic plaque. <i>BioMedical Engineering OnLine</i> , 2021, 20, 42.	1.3	4
14	Understanding the influence of left ventricular assist device inflow cannula alignment and the risk of intraventricular thrombosis. <i>BioMedical Engineering OnLine</i> , 2021, 20, 47.	1.3	12
15	Coronary Plaque Characterization From Optical Coherence Tomography Imaging With a Two-Pathway Cascade Convolutional Neural Network Architecture. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 670502.	1.1	4
16	Predicting bone regeneration from machine learning. <i>Nature Computational Science</i> , 2021, 1, 509-510.	3.8	4
17	Impact of stent malapposition on intracoronary flow dynamics: An optical coherence tomography-based patient-specific study. <i>Medical Engineering and Physics</i> , 2021, 94, 26-32.	0.8	5
18	Digital Subtraction Angiography Contrast Material Transport as a Direct Assessment for Blood Perfusion of Middle Cerebral Artery Stenosis. <i>Frontiers in Physiology</i> , 2021, 12, 716173.	1.3	2

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19	Effects of Nanopillar Size and Spacing on Mechanical Perturbation and Bactericidal Killing Efficiency. <i>Nanomaterials</i> , 2021, 11, 2472.	1.9	14
20	Mathematical modeling of plaque progression and associated microenvironment: How far from predicting the fate of atherosclerosis?. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 211, 106435.	2.6	3
21	Role of vascular smooth muscle cell phenotypic switching in plaque progression: A hybrid modeling study. <i>Journal of Theoretical Biology</i> , 2021, 526, 110794.	0.8	10
22	Single-parameter mechanical design of a 3D-printed octet truss topological scaffold to match natural cancellous bones. <i>Materials and Design</i> , 2021, 209, 109986.	3.3	12
23	Degradation of 3D-Printed Porous Polylactic Acid Scaffolds Under Mechanical Stimulus. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 691834.	2.0	5
24	Multiscale modeling of solid stress and tumor cell invasion in response to dynamic mechanical microenvironment. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 577-590.	1.4	9
25	Optical coherence tomography-based patient-specific coronary artery reconstruction and fluid-structure interaction simulation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 7-20.	1.4	32
26	The importance of blood rheology in patient-specific computational fluid dynamics simulation of stenotic carotid arteries. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 1477-1490.	1.4	36
27	How does mechanical stimulus affect the coupling process of the scaffold degradation and bone formation: An in silico approach. <i>Computers in Biology and Medicine</i> , 2020, 117, 103588.	3.9	9
28	The rotation toughening mechanism of barb-barbule joint in the barb delamination of feathers. <i>Acta Mechanica</i> , 2020, 231, 1173-1186.	1.1	4
29	Aortic cannula orientation and flow impacts embolic trajectories: computational cardiopulmonary bypass. <i>Perfusion (United Kingdom)</i> , 2020, 35, 409-416.	0.5	4
30	3D-printed cellular tips for tuning fork atomic force microscopy in shear mode. <i>Nature Communications</i> , 2020, 11, 5732.	5.8	8
31	Atherosclerotic Plaque Tissue Characterization: An OCT-Based Machine Learning Algorithm With ex vivo Validation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 749.	2.0	12
32	Editorial: Biomechanics in Translation: From Vascular Biology to Cardiovascular Drug Discovery. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 902.	2.0	0
33	The bHLH transcription factor PPLS1 regulates the color of pulvinus and leaf sheath in foxtail millet (<i>Setaria italica</i>). <i>Theoretical and Applied Genetics</i> , 2020, 133, 1911-1926.	1.8	14
34	Stress-Relaxation and Cyclic Behavior of Human Carotid Plaque Tissue. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 60.	2.0	4
35	Mechanical-chemical coupled modeling of bone regeneration within a biodegradable polymer scaffold loaded with VEGF. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 2285-2306.	1.4	12
36	Mechanical effect on the evolution of bone formation during bone ingrowth into a 3D-printed Ti-alloy scaffold. <i>Materials Letters</i> , 2020, 273, 127921.	1.3	4

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37	Development and validation of machine learning prediction model based on computed tomography angiography-derived hemodynamics for rupture status of intracranial aneurysms: a Chinese multicenter study. <i>European Radiology</i> , 2020, 30, 5170-5182.	2.3	27
38	Automated classification of coronary plaque calcification in OCT pullbacks with 3D deep neural networks. <i>Journal of Biomedical Optics</i> , 2020, 25, .	1.4	11
39	Characterization of the Atherosclerotic Plaque Tissue. <i>Advanced Materials Letters</i> , 2020, 11, 1-7.	0.3	2
40	Graphdiyne family-tunable solution to shock resistance. <i>Materials Research Express</i> , 2020, 7, 115602.	0.8	4
41	Influences of plaque eccentricity and composition on the stent-plaque-artery interaction during stent implantation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 45-56.	1.4	20
42	Numerical investigation of drug transport from blood vessels to tumour tissue using a Tumour-Vasculature-on-a-Chip. <i>Chemical Engineering Science</i> , 2019, 208, 115155.	1.9	11
43	Graphynes: an alternative lightweight solution for shock protection. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 1588-1595.	1.5	6
44	Biomechanical assessment of aortic valve stenosis: Advantages and limitations. <i>Medicine in Novel Technology and Devices</i> , 2019, 2, 100009.	0.9	6
45	Prediction of atherosclerotic plaque life - Perceptions from fatigue analysis. <i>Procedia Manufacturing</i> , 2019, 30, 522-529.	1.9	1
46	Parametric Study on Nanopattern Bactericidal Activity. <i>Procedia Manufacturing</i> , 2019, 30, 514-521.	1.9	12
47	Preface - Computational Modeling for Cardiovascular Disease and Biological Applications. <i>International Journal of Computational Methods</i> , 2019, 16, 1802002.	0.8	0
48	Tensile and compressive force regulation on cell mechanosensing. <i>Biophysical Reviews</i> , 2019, 11, 311-318.	1.5	18
49	Carotid Geometry as a Predictor of In-Stent Neointimal Hyperplasia - A Computational Fluid Dynamics Study. <i>Circulation Journal</i> , 2019, 83, 1472-1479.	0.7	8
50	Effect of mechanical stimulation on the degradation of poly(lactic acid) scaffolds with different designed structures. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 96, 324-333.	1.5	19
51	Mathematical modeling of bone in-growth into undegradable porous periodic scaffolds under mechanical stimulus. <i>Journal of Tissue Engineering</i> , 2019, 10, 204173141982716.	2.3	15
52	Structural and Hemodynamic Analyses of Different Stent Structures in Curved and Stenotic Coronary Artery. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 366.	2.0	27
53	Mg-Phenolic Network Strategy for Enhancing Corrosion Resistance and Osteocompatibility of Degradable Magnesium Alloys. <i>ACS Omega</i> , 2019, 4, 21931-21944.	1.6	27
54	Carotid Bifurcation With Tandem Stenosis - A Patient-Specific Case Study Combined in vivo Imaging, in vitro Histology and in silico Simulation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 349.	2.0	13

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55	Coupled Modeling of Lipid Deposition, Inflammatory Response and Intraplaque Angiogenesis in Atherosclerotic Plaque. <i>Annals of Biomedical Engineering</i> , 2019, 47, 439-452.	1.3	19
56	A Machine Learning-Based Method for Intracoronary OCT Segmentation and Vulnerable Coronary Plaque Cap Thickness Quantification. <i>International Journal of Computational Methods</i> , 2019, 16, 1842008.	0.8	15
57	DSA-Based Quantitative Assessment of Cerebral Hypoperfusion in Patients with Asymmetric Carotid Stenosis. <i>MCB Molecular and Cellular Biomechanics</i> , 2019, 16, 27-39.	0.3	6
58	Preface: The First International Symposium on Biomechanics and Mechanobiology in Cardiovascular System. <i>MCB Molecular and Cellular Biomechanics</i> , 2019, 16, 1-7.	0.3	0
59	Characterization of Coronary Atherosclerotic Plaque Composition Based on Convolutional Neural Network (CNN). <i>MCB Molecular and Cellular Biomechanics</i> , 2019, 16, 57-57.	0.3	0
60	Atherosclerotic Plaque Rupture Prediction: Imaging-Based Computational Simulation and Multiphysical Modelling. <i>MCB Molecular and Cellular Biomechanics</i> , 2019, 16, 29-30.	0.3	0
61	Neovascularization and Intraplaque Hemorrhage in Atherosclerotic Plaque Destabilization-A Mathematical Model. <i>MCB Molecular and Cellular Biomechanics</i> , 2019, 16, 49-49.	0.3	0
62	High amplitude and low frequency cyclic mechanical strain promotes degeneration of human nucleus pulposus cells via the NF- κ B p65 pathway. <i>Journal of Cellular Physiology</i> , 2018, 233, 7206-7216.	2.0	19
63	Effect of rehabilitation exercise durations on the dynamic bone repair process by coupling polymer scaffold degradation and bone formation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2018, 17, 763-775.	1.4	15
64	Positive effect of wrapping poly caprolactone/polyethylene glycol fibrous films on the mechanical properties of 45S5 bioactive glass scaffolds. <i>International Journal of Applied Ceramic Technology</i> , 2018, 15, 921-929.	1.1	3
65	Mathematical modeling of atherosclerotic plaque destabilization: Role of neovascularization and intraplaque hemorrhage. <i>Journal of Theoretical Biology</i> , 2018, 450, 53-65.	0.8	29
66	Ventricular flow dynamics with varying LVAD inflow cannula lengths: In-silico evaluation in a multiscale model. <i>Journal of Biomechanics</i> , 2018, 72, 106-115.	0.9	34
67	A numerical investigation of drug extravasation using a tumour vasculature microfluidic device. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.	1.0	8
68	Numerical investigation of atherosclerotic plaque rupture using optical coherence tomography imaging and XFEM. <i>Engineering Fracture Mechanics</i> , 2018, 204, 531-541.	2.0	14
69	Low Wall Shear Stress Is Associated with Local Aneurysm Wall Enhancement on High-Resolution MR Vessel Wall Imaging. <i>American Journal of Neuroradiology</i> , 2018, 39, 2082-2087.	1.2	32
70	The Influence of Rotary Blood Pump Speed Modulation on the Risk of Intraventricular Thrombosis. <i>Artificial Organs</i> , 2018, 42, 943-953.	1.0	24
71	Biodegradable Metallic Wires in Dental and Orthopedic Applications: A Review. <i>Metals</i> , 2018, 8, 212.	1.0	33
72	Fractal dimension: A complementary diagnostic indicator of osteoporosis to bone mineral density. <i>Medical Hypotheses</i> , 2018, 116, 136-138.	0.8	18

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73	Combining IVUS and Optical Coherence Tomography for More Accurate Coronary Cap Thickness Quantification and Stress/Strain Calculations: A Patient-Specific Three-Dimensional Fluid-Structure Interaction Modeling Approach. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	0.6	26
74	Preface: Innovations and Current Trends in Computational Cardiovascular Modeling and Beyond: Molecular, Cellular, Tissue and Organ Biomechanics with Clinical Applications. <i>CMES - Computer Modeling in Engineering and Sciences</i> , 2018, 116, 109-113.	0.8	0
75	Nonlinear mechanics of a ring structure subjected to multi-pairs of evenly distributed equal radial forces. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2017, 33, 942-953.	1.5	3
76	Carborane Derivative Conjugated with Gold Nanoclusters for Targeted Cancer Cell Imaging. <i>Biomacromolecules</i> , 2017, 18, 1466-1472.	2.6	47
77	Automatic classification of atherosclerotic tissue in intravascular optical coherence tomography images. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2017, 34, 1152.	0.8	16
78	Abstract 383: Patient-Specific Coronary Models Combining Intravascular Ultrasound and Optical Coherence Tomography Lead to More Accurate Plaque Cap Thickness and Stress/Strain Quantifications. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, .	1.1	0
79	An analytical hierarchical model explaining the robustness and flaw-tolerance of the interlocking barb-barbule structure of bird feathers. <i>Europhysics Letters</i> , 2016, 116, 24001.	0.7	7
80	Numerical prediction of thrombus risk in an anatomically dilated left ventricle: the effect of inflow cannula designs. <i>BioMedical Engineering OnLine</i> , 2016, 15, 136.	1.3	21
81	STUDY ON THE IMPACT OF STRAIGHT STENTS ON ARTERIES WITH DIFFERENT CURVATURES. <i>Journal of Mechanics in Medicine and Biology</i> , 2016, 16, 1650093.	0.3	13
82	Plastic collapse of cylindrical shell-plate periodic honeycombs under uniaxial compression: experimental and numerical analyses. <i>International Journal of Mechanical Sciences</i> , 2016, 111-112, 125-133.	3.6	32
83	A Validated Finite Element Analysis of Facet Joint Stress in Degenerative Lumbar Scoliosis. <i>World Neurosurgery</i> , 2016, 95, 126-133.	0.7	31
84	The Effects of Adult Degenerative Lumbar Scoliosis on the Facet Joint Contact Forces: A Finite Element Study. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 6804-6809.	0.9	1
85	A parametric study of inflammatory effects on plaque mechanical stress. <i>International Journal of Cardiology</i> , 2016, 205, 157-159.	0.8	1
86	Preface: Computational and experimental methods for biological research: cardiovascular diseases and beyond. <i>BioMedical Engineering OnLine</i> , 2016, 15, 157.	1.3	0
87	Multi-scale mathematical modelling of tumour growth and microenvironments in anti-angiogenic therapy. <i>BioMedical Engineering OnLine</i> , 2016, 15, 155.	1.3	13
88	Re-examination of the mechanical anisotropy of porcine thoracic aorta by uniaxial tensile tests. <i>BioMedical Engineering OnLine</i> , 2016, 15, 167.	1.3	13
89	Reproducibility of image-based computational models of intracranial aneurysm; methodological issue. <i>BioMedical Engineering OnLine</i> , 2016, 15, 109.	1.3	7
90	Reproducibility of image-based computational models of intracranial aneurysm: a comparison between 3D rotational angiography, CT angiography and MR angiography. <i>BioMedical Engineering OnLine</i> , 2016, 15, 50.	1.3	33

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91	Left ventricular diastolic dysfunction in type 2 diabetes patients: a novel 2D strain analysis based on cardiac magnetic resonance imaging. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 1330-1338.	0.9	7
92	Localized method of approximate particular solutions for solving unsteady Navier–Stokes problem. <i>Applied Mathematical Modelling</i> , 2016, 40, 2265-2273.	2.2	10
93	Mathematical Modelling of a Brain Tumour Initiation and Early Development: A Coupled Model of Glioblastoma Growth, Pre-Existing Vessel Co-Option, Angiogenesis and Blood Perfusion. <i>PLoS ONE</i> , 2016, 11, e0150296.	1.1	31
94	Facet Joint Orientation and Sagittal Spinopelvic Alignment in Patients with Degenerative Lumbar Scoliosis. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 7278-7283.	0.9	0
95	Foot Morphological Difference between Habitually Shod and Unshod Runners. <i>PLoS ONE</i> , 2015, 10, e0131385.	1.1	36
96	Oxygen Transport in a Three-Dimensional Microvascular Network Incorporated with Early Tumour Growth and Preexisting Vessel Cooption: Numerical Simulation Study. <i>BioMed Research International</i> , 2015, 2015, 1-10.	0.9	7
97	A 3D numerical study of the collateral capacity of the circle of Willis with anatomical variation in the posterior circulation. <i>BioMedical Engineering OnLine</i> , 2015, 14, S11.	1.3	23
98	Cardiovascular diseases and vulnerable plaques: data, modeling, predictions and clinical applications. <i>BioMedical Engineering OnLine</i> , 2015, 14, S1.	1.3	5
99	MRI-based strain and strain rate analysis of left ventricle: a modified hierarchical transformation model. <i>BioMedical Engineering OnLine</i> , 2015, 14, S9.	1.3	7
100	Flow pattern analysis in a highly stenotic patient-specific carotid bifurcation model using a turbulence model. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 1099-1107.	0.9	22
101	Segmentation and Classification Method in IVOCT Images. , 2015, , .		0
102	Mathematical Modelling of Blood Perfusion and Oxygen Transport in the Cerebral Microvasculature of Ischemic Stroke. <i>IFMBE Proceedings</i> , 2015, , 27-30.	0.2	0
103	How Does Calcification Influence Plaque Vulnerability? Insights from Fatigue Analysis. <i>Scientific World Journal, The</i> , 2014, 2014, 1-8.	0.8	10
104	PLANTAR PRESSURE DISTRIBUTION CHARACTER IN YOUNG FEMALE WITH MILD HALLUX VALGUS WEARING HIGH-HEELED SHOES. <i>Journal of Mechanics in Medicine and Biology</i> , 2014, 14, 1450008.	0.3	8
105	A multiscale study on the structural and mechanical properties of the luffa sponge from <i>Luffa cylindrica</i> plant. <i>Journal of Biomechanics</i> , 2014, 47, 1332-1339.	0.9	78
106	Fatigue Crack Growth Under Pulsatile Pressure and Plaque Rupture. <i>JACC: Cardiovascular Imaging</i> , 2014, 7, 738-740.	2.3	5
107	Mechanical properties of a hollow-cylindrical-joint honeycomb. <i>Composite Structures</i> , 2014, 109, 68-74.	3.1	52
108	3D numerical simulation of avascular tumour growth: effect of hypoxic micro-environment in host tissue. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2013, 34, 1055-1068.	1.9	4

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109	Fatigue Crack Propagation Analysis of Plaque Rupture. <i>Journal of Biomechanical Engineering</i> , 2013, 135, 101003-9.	0.6	12
110	A New Method for the In Vivo Identification of Mechanical Properties in Arteries From Cine MRI Images: Theoretical Framework and Validation. <i>IEEE Transactions on Medical Imaging</i> , 2013, 32, 1448-1461.	5.4	12
111	Study on the elastic-plastic behavior of a porous hierarchical bioscaffold used for bone regeneration. <i>Materials Letters</i> , 2013, 112, 43-46.	1.3	11
112	Influence of surface stress on elastic constants of nanohoneycombs. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013, 53, 217-222.	1.3	12
113	Advances in nano-scaled biosensors for biomedical applications. <i>Analyst, The</i> , 2013, 138, 4427.	1.7	59
114	Feasibility of Autologous Bone Marrow Mesenchymal Stem Cell-Derived Extracellular Matrix Scaffold for Cartilage Tissue Engineering. <i>Artificial Organs</i> , 2013, 37, E179-90.	1.0	20
115	A Hybrid Cellular Automata Model of Multicellular Tumour Spheroid Growth in Hypoxic Microenvironment. <i>Journal of Applied Mathematics</i> , 2013, 2013, 1-10.	0.4	3
116	Deformation of Female Foot Binding in China. <i>Journal of Clinical Rheumatology</i> , 2013, 19, 418.	0.5	3
117	Effect of Shoes' Heel Height on the Energy Cost during Jogging. <i>Research Journal of Applied Sciences, Engineering and Technology</i> , 2013, 6, 1531-1533.	0.1	1
118	Mechanical Analysis of Foot Plantar Fascia During Normal Walking Condition. <i>IFMBE Proceedings</i> , 2013, , 242-244.	0.2	0
119	Effect of inflow and outflow angles on the computational hemodynamics in abdominal aortic aneurysm. <i>IFMBE Proceedings</i> , 2013, , 153-156.	0.2	0
120	A PILOT STUDY IN DIFFERENT UNSTABLE DESIGNS ON THE BIOMECHANICAL EFFECT OF GAIT CHARACTERISTICS. <i>Journal of Mechanics in Medicine and Biology</i> , 2012, 12, 1250031.	0.3	2
121	Finite Element Analysis of Deep Transverse Metatarsal Ligaments Mechanical Response during Landing. <i>Advanced Materials Research</i> , 2012, 472-475, 2558-2561.	0.3	4
122	Mechanical Information of Plantar Fascia during Normal Gait. <i>Physics Procedia</i> , 2012, 33, 63-66.	1.2	5
123	Impact of Coronary Tortuosity on Coronary Pressure: Numerical Simulation Study. <i>PLoS ONE</i> , 2012, 7, e42558.	1.1	29
124	A Natural-History Study of Coronary Disease. <i>New England Journal of Medicine</i> , 2011, 364, 1469-1472.	18.9	3
125	Antithrombin III associated with fibrinogen predicts the risk of cerebral ischemic stroke. <i>Clinical Neurology and Neurosurgery</i> , 2011, 113, 380-386.	0.6	26
126	Study of carotid arterial plaque stress for symptomatic and asymptomatic patients. <i>Journal of Biomechanics</i> , 2011, 44, 2551-2557.	0.9	32

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127	Reduction in Arterial Wall Strain With Aggressive Lipid-Lowering Therapy in Patients With Carotid Artery Disease. <i>Circulation Journal</i> , 2011, 75, 1486-1492.	0.7	13
128	Utility of Magnetic Resonance Imaging-Based Finite Element Analysis for the Biomechanical Stress Analysis of Hemorrhagic and Non-Hemorrhagic Carotid Plaques. <i>Circulation Journal</i> , 2011, 75, 884-889.	0.7	15
129	Stress Analysis of Carotid Atheroma in Transient Ischemic Attack Patients: Evidence for Extreme Stress-Induced Plaque Rupture. <i>Annals of Biomedical Engineering</i> , 2011, 39, 2203-2212.	1.3	12
130	In vivo velocity vector imaging and time-resolved strain rate measurements in the wall of blood vessels using MRI. <i>Journal of Biomechanics</i> , 2011, 44, 979-983.	0.9	7
131	Response to Letter Regarding Article, "Association Between Aneurysm Shoulder Stress and Abdominal Aortic Aneurysm Expansion: A Longitudinal Follow-Up Study" <i>Circulation</i> , 2011, 123, .	1.6	0
132	Image-based midsole insert design and the material effects on heel plantar pressure distribution during simulated walking loads. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2011, 14, 747-753.	0.9	23
133	Normalized Wall Index Specific and MRI-Based Stress Analysis of Atherosclerotic Carotid Plaques - A Study Comparing Acutely Symptomatic and Asymptomatic Patients -. <i>Circulation Journal</i> , 2010, 74, 2360-2364.	0.7	27
134	Arterial Luminal Curvature and Fibrous-Cap Thickness Affect Critical Stress Conditions Within Atherosclerotic Plaque: An In Vivo MRI-Based 2D Finite-Element Study. <i>Annals of Biomedical Engineering</i> , 2010, 38, 3096-3101.	1.3	28
135	Arsenic trioxide promotes mitochondrial DNA mutation and cell apoptosis in primary APL cells and NB4 cell line. <i>Science China Life Sciences</i> , 2010, 53, 87-93.	2.3	13
136	Association between Biomechanical Structural Stresses of Atherosclerotic Carotid Plaques and Subsequent Ischaemic Cerebrovascular Events " A Longitudinal in Vivo Magnetic Resonance Imaging-based Finite element Study. <i>European Journal of Vascular and Endovascular Surgery</i> , 2010, 40, 485-491.	0.8	67
137	Association Between Aneurysm Shoulder Stress and Abdominal Aortic Aneurysm Expansion. <i>Circulation</i> , 2010, 122, 1815-1822.	1.6	85
138	Computed wall stress may predict the growth of abdominal aortic aneurysm. , 2010, 2010, 2626-9.		5
139	Finite element analysis of vulnerable atherosclerotic plaques: a comparison of mechanical stresses within carotid plaques of acute and recently symptomatic patients with carotid artery disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2010, 81, 286-289.	0.9	32
140	The Hemodynamic Effects of In-Tandem Carotid Artery Stenosis: Implications for Carotid Endarterectomy. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2010, 19, 138-145.	0.7	10
141	Curvedness Study on Atherosclerosis Plaques and Its Implications to Plaque Stress. <i>IFMBE Proceedings</i> , 2010, , 1507-1510.	0.2	1
142	Stress Analysis of Carotid Atheroma in Transient Ischemic Attack Patients. , 2009, , .		0
143	Iron Oxide Particles for Atheroma Imaging. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009, 29, 1001-1008.	1.1	125
144	The mechanical triggers of plaque rupture: shear stress<i>vs</i>pressure gradient. <i>British Journal of Radiology</i> , 2009, 82, S39-S45.	1.0	61

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145	Stress analysis of carotid atheroma in a transient ischaemic attack patient using the MRI-based fluid-structure interaction method. <i>British Journal of Radiology</i> , 2009, 82, S46-S54.	1.0	13
146	Noninvasive imaging of atheromatous carotid plaques. <i>Nature Reviews Cardiology</i> , 2009, 6, 200-209.	6.1	14
147	Study of reproducibility of human arterial plaque reconstruction and its effects on stress analysis based on multispectral in vivo magnetic resonance imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 30, 85-93.	1.9	27
148	Study on Tracheal Collapsibility, Compliance, and Stress by Considering Nonlinear Mechanical Property of Cartilage. <i>Annals of Biomedical Engineering</i> , 2009, 37, 2380-2389.	1.3	17
149	Study of tracheal collapsibility, compliance and stress by considering its asymmetric geometry. <i>Medical Engineering and Physics</i> , 2009, 31, 328-336.	0.8	8
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