

# Wenchang Tan

## List of Publications by Year in descending order

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42  
papers

634  
citations

687363

13  
h-index

610901

24  
g-index

43  
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43  
docs citations

43  
times ranked

507  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomechanical assessment of screw safety between far cortical locking and locked plating constructs. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021, 24, 663-672.	1.6	3
2	Intra- and inter-specific scaling laws of plants and animals. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021, 37, 321-330.	3.4	3
3	Effects of reverse deployment of cone-shaped vena cava filter on improvements in hemodynamic performance in vena cava. <i>BioMedical Engineering OnLine</i> , 2021, 20, 19.	2.7	1
4	Short-Term Inhalation of Ultrafine Zinc Particles Could Alleviate Cardiac Dysfunctions in Rats of Myocardial Infarction. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 646533.	4.1	5
5	Hemodynamic effects of the human aorta arch with different inflow rate waveforms from the ascending aorta inlet: A numerical study. <i>Biorheology</i> , 2021, 58, 27-38.	0.4	1
6	A comparison of passive and active wall mechanics between elastic and muscular arteries of juvenile and adult rats. <i>Journal of Biomechanics</i> , 2021, 126, 110642.	2.1	4
7	Cardiac wall mechanics analysis in hypertension-induced heart failure rats with preserved ejection fraction. <i>Journal of Biomechanics</i> , 2020, 98, 109428.	2.1	10
8	Keystone species can be identified based on motif centrality. <i>Ecological Indicators</i> , 2020, 110, 105877.	6.3	6
9	Mechanical difference of left ventricle between rabbits of myocardial infarction and hypertrophy. <i>Journal of Biomechanics</i> , 2020, 111, 110021.	2.1	3
10	Speckle tracking echocardiography could detect the difference of pressure overload-induced myocardial remodelling between young and adult rats. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20190808.	3.4	10
11	Morphometric, Hemodynamic, and Multi-Omics Analyses in Heart Failure Rats with Preserved Ejection Fraction. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3362.	4.1	18
12	A novel recyclable left ventricular partitioning device. <i>Medical Hypotheses</i> , 2020, 144, 109915.	1.5	0
13	Vertebral Artery Stenoses Contribute to the Development of Diffuse Plaques in the Basilar Artery. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 168.	4.1	8
14	Inhalation of Ultrafine Zinc Particles Impaired Cardiovascular Functions in Hypertension-Induced Heart Failure Rats With Preserved Ejection Fraction. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 13.	4.1	9
15	A novel inflatable left ventricular partitioning device. <i>Medical Hypotheses</i> , 2020, 138, 109571.	1.5	0
16	Electrokinetic energy conversion of two-layer fluids through nanofluidic channels. <i>Journal of Fluid Mechanics</i> , 2019, 863, 1062-1090.	3.4	20
17	Effects of rogue ryanodine receptors on Ca <sup>2+</sup> sparks in cardiac myocytes. <i>Royal Society Open Science</i> , 2018, 5, 171462.	2.4	5
18	Morphometry and hemodynamics of posterior communicating artery aneurysms: Ruptured versus unruptured. <i>Journal of Biomechanics</i> , 2018, 76, 35-44.	2.1	8

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19	Hepatic Hemangiomas Alter Morphometry and Impair Hemodynamics of the Abdominal Aorta and Primary Branches From Computer Simulations. <i>Frontiers in Physiology</i> , 2018, 9, 334.	2.8	10
20	The Interplay of Rogue and Clustered Ryanodine Receptors Regulates Ca <sup>2+</sup> Waves in Cardiac Myocytes. <i>Frontiers in Physiology</i> , 2018, 9, 393.	2.8	4
21	Passive and Active Triaxial Wall Mechanics in a Two-Layer Model of Porcine Coronary Artery. <i>Scientific Reports</i> , 2017, 7, 13911.	3.3	11
22	A comparison of postoperative morphometric and hemodynamic changes between saphenous vein and left internal mammary artery grafts. <i>Physiological Reports</i> , 2017, 5, e13487.	1.7	10
23	Flow velocity is relatively uniform in the coronary sinusal venous tree: structure-function relation. <i>Journal of Applied Physiology</i> , 2017, 122, 60-67.	2.5	2
24	The Structure-function remodeling in rabbit hearts of myocardial infarction. <i>Physiological Reports</i> , 2017, 5, e13311.	1.7	14
25	Intraspecific scaling laws are preserved in ventricular hypertrophy but not in heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 311, H1108-H1117.	3.2	5
26	Hemodynamics of left internal mammary artery bypass graft: Effect of anastomotic geometry, coronary artery stenosis, and postoperative time. <i>Journal of Biomechanics</i> , 2016, 49, 645-652.	2.1	29
27	Morphometric and hemodynamic analysis of atherosclerotic progression in human carotid artery bifurcations. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H639-H647.	3.2	38
28	Interplay of Proximal Flow Confluence and Distal Flow Divergence in Patient-Specific Vertebrobasilar System. <i>PLoS ONE</i> , 2016, 11, e0159836.	2.5	10
29	Hemodynamics in Coronary Arterial Tree of Serial Stenoses. <i>PLoS ONE</i> , 2016, 11, e0163715.	2.5	21
30	Growth, ageing and scaling laws of coronary arterial trees. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150830.	3.4	20
31	Coriolis effect on thermal convective instability of viscoelastic fluids in a rotating porous cylindrical annulus. <i>Transport in Porous Media</i> , 2013, 98, 349-362.	2.6	8
32	Stability of Thermal Convection in a Fluid-Porous System Saturated with an Oldroyd-B Fluid Heated from Below. <i>Transport in Porous Media</i> , 2013, 99, 327-347.	2.6	13
33	A transient solution for vesicle electrodeformation and relaxation. <i>Physics of Fluids</i> , 2013, 25, 071903.	4.0	21
34	Onset of Thermal Convection in a Maxwell Fluid-Saturated Porous Medium: The Effects of Hydrodynamic Boundary and Constant Flux Heating Conditions. <i>Transport in Porous Media</i> , 2012, 91, 777-790.	2.6	7
35	Anomalous Subdiffusion of Calcium Spark in Cardiac Myocytes. <i>Cellular and Molecular Bioengineering</i> , 2011, 4, 457-465.	2.1	6
36	The onset of double diffusive convection in a binary viscoelastic fluid saturated anisotropic porous layer. <i>Physics of Fluids</i> , 2009, 21, .	4.0	50

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37	Response to "Comment on "Stokes" first problem for an Oldroyd-B fluid in a porous half space" [Phys. Fluids 21, 069101 (2009)]. Physics of Fluids, 2009, 21, 069102.	4.0	2
38	Linear and nonlinear stability analyses of thermal convection for Oldroyd-B fluids in porous media heated from below. Physics of Fluids, 2008, 20, .	4.0	50
39	Intermediate processes and critical phenomena: Theory, method and progress of fractional operators and their applications to modern mechanics. Science in China Series G: Physics, Mechanics and Astronomy, 2006, 49, 257-272.	0.2	83
40	An exact solution of unsteady Couette flow of generalized second grade fluid. Science Bulletin, 2002, 47, 1783-1785.	9.0	33
41	Theoretical analysis of the velocity field, stress field and vortex sheet of generalized second order fluid with fractional anomalous diffusion. Science in China Series A: Mathematics, 2001, 44, 1387-1399.	0.5	71
42	The problem of fluid-dynamics in semicircular canal. Science in China Series A: Mathematics, 2000, 43, 517-526.	0.5	2