

Xiao Liu

List of Publications by Year in descending order

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62
papers

2,399
citations

489802

18
h-index

232693

48
g-index

64
all docs

64
docs citations

64
times ranked

4082
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of residual stenosis on carotid artery after stent implantation: A numerical study. <i>Medicine in Novel Technology and Devices</i> , 2022, 13, 100105.	0.9	3
2	Novel Nonvolatile Lookup Table Design Based on Voltage-Controlled Spin Orbit Torque Memory. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 1677-1682.	1.6	1
3	Linear Error Correction Codec Implementation Based on an In-Memory Computing Architecture for Nonvolatile Memories. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 3455-3461.	1.6	3
4	Spatiotemporal changes of local hemodynamics and plaque components during atherosclerotic progression in rabbit. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 220, 106814.	2.6	1
5	Flow shear stress controls the initiation of neovascularization via heparan sulfate proteoglycans within a biomimetic microfluidic model. <i>Lab on A Chip</i> , 2021, 21, 421-434.	3.1	17
6	Numerical analysis of the hemodynamics of rat aorta based on magnetic resonance imaging and fluid-structure interaction. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2021, 37, e3457.	1.0	4
7	Flow-mediated dilation analysis coupled with nitric oxide transport to enhance the assessment of endothelial function. <i>Journal of Applied Physiology</i> , 2021, 131, 1-14.	1.2	6
8	Microfluidic Model to Mimic Initial Event of Neovascularization. <i>Journal of Visualized Experiments</i> , 2021, , .	0.2	1
9	Sequential numerical simulation of vascular remodeling and thrombosis in unconventional hybrid repair of ruptured middle aortic syndrome. <i>Medical Engineering and Physics</i> , 2021, 94, 87-95.	0.8	3
10	Delivery of Nitric Oxide in the Cardiovascular System: Implications for Clinical Diagnosis and Therapy. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12166.	1.8	15
11	Hemodynamic Impact of Stenting on Carotid Bifurcation: A Potential Role of the Stented Segment and External Carotid Artery. <i>Computational and Mathematical Methods in Medicine</i> , 2021, 2021, 1-9.	0.7	4
12	Quasi-Projective Synchronization of Distributed-Order Recurrent Neural Networks. <i>Fractal and Fractional</i> , 2021, 5, 260.	1.6	5
13	Spatiotemporal transfer of nitric oxide in patient-specific atherosclerotic carotid artery bifurcations with MRI and computational fluid dynamics modeling. <i>Computers in Biology and Medicine</i> , 2020, 125, 104015.	3.9	7
14	Electrochemically Enabled Embedded Three-Dimensional Printing of Freestanding Gallium Wire-like Structures. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53966-53972.	4.0	30
15	Magnesium-Based Whitlockite Bone Mineral Promotes Neural and Osteogenic Activities. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 5785-5796.	2.6	23
16	The role of hemoglobin in nitric oxide transport in vascular system. <i>Medicine in Novel Technology and Devices</i> , 2020, 5, 100034.	0.9	11
17	Influence of Artery Straightening on Local Hemodynamics in Left Anterior Descending (LAD) Artery after Stent Implantation. <i>Cardiology Research and Practice</i> , 2020, 2020, 1-9.	0.5	2
18	Transfer of Low-Density Lipoproteins in Coronary Artery Bifurcation Lesions with Stenosed Side Branch: Numerical Study. <i>Computational and Mathematical Methods in Medicine</i> , 2019, 2019, 1-10.	0.7	3

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19	Bioprinting: 3D Bioprinting: from Benches to Translational Applications (Small 23/2019). Small, 2019, 15, 1970126.	5.2	84
20	Hydraulic conductivity and low-density lipoprotein transport of the venous graft wall in an arterial bypass. BioMedical Engineering OnLine, 2019, 18, 50.	1.3	2
21	Fracture-Resistant and Bioresorbable Drug-Eluting Poly(glycerol Sebacate) Coils. Advanced Therapeutics, 2019, 2, 1800109.	1.6	7
22	What is needed to make low-density lipoprotein transport in human aorta computational models suitable to explore links to atherosclerosis? Impact of initial and inflow boundary conditions. Journal of Biomechanics, 2018, 68, 33-42.	0.9	18
23	Microfluidic Bioprinting: Digitally Tunable Microfluidic Bioprinting of Multilayered Cannular Tissues (Adv. Mater. 43/2018). Advanced Materials, 2018, 30, 1870322.	11.1	2
24	A General Strategy for Extrusion Bioprinting of Bio-Macromolecular Bioinks through Alginate-Templated Dual-Stage Crosslinking. Macromolecular Bioscience, 2018, 18, e1800127.	2.1	60
25	Cancer Cell Glycocalyx and Its Significance in Cancer Progression. International Journal of Molecular Sciences, 2018, 19, 2484.	1.8	56
26	Energy Efficiency Optimization for Communication of Air-Based Information Network with Guaranteed Timing Constraints. Journal of Signal Processing Systems, 2017, 86, 299-312.	1.4	8
27	PERM-GUARD: Authenticating the Validity of Flow Rules in Software Defined Networking. Journal of Signal Processing Systems, 2017, 86, 157-173.	1.4	16
28	Vascular smooth muscle cell glycocalyx mediates shear stress-induced contractile responses via a Rho kinase (ROCK)-myosin light chain phosphatase (MLCP) pathway. Scientific Reports, 2017, 7, 42092.	1.6	21
29	Numerical simulation of haemodynamics and low-density lipoprotein transport in the rabbit aorta and their correlation with atherosclerotic plaque thickness. Journal of the Royal Society Interface, 2017, 14, 20170140.	1.5	20
30	Thermoresponsive Mobile Interfaces with Switchable Wettability, Optical Properties, and Penetrability. ACS Applied Materials & Interfaces, 2017, 9, 35483-35491.	4.0	33
31	Bioprinting: Extrusion Bioprinting of Shear-Thinning Gelatin Methacryloyl Bioinks (Adv. Healthcare) Tj ETQq1 1 0.784314 rgBT /Over 3.9	0.784314	14
32	Transcatheter aortic valve replacement in patients with high aortic angulation. Journal of Thoracic Disease, 2017, 9, S439-S441.	0.6	1
33	Effect of longitudinal anatomical mismatch of stenting on the mechanical environment in human carotid artery with atherosclerotic plaques. Medical Engineering and Physics, 2017, 48, 114-119.	0.8	5
34	Beamforming Based Full-Duplex for Millimeter-Wave Communication. Sensors, 2016, 16, 1130.	2.1	36
35	Hemodynamic Performance of a New Punched Stent Strut: A Numerical Study. Artificial Organs, 2016, 40, 669-677.	1.0	17
36	Influence of endoleak positions on the pressure shielding ability of stent-graft after endovascular aneurysm repair (EVAR) of abdominal aortic aneurysm (AAA). BioMedical Engineering OnLine, 2016, 15, 135.	1.3	2

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37	Bioinspired helical graft with taper to enhance helical flow. <i>Journal of Biomechanics</i> , 2016, 49, 3643-3650.	0.9	20
38	Plaque components affect wall stress in stented human carotid artery: A numerical study. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2016, 32, 1149-1154.	1.5	2
39	Influence of catheter insertion on the hemodynamic environment in coronary arteries. <i>Medical Engineering and Physics</i> , 2016, 38, 946-951.	0.8	10
40	Energy Optimization of Air-Based Information Network with Guaranteed Security Protection. , 2015, , .		2
41	Does Lower Limb Exercise Worsen Renal Artery Hemodynamics in Patients with Abdominal Aortic Aneurysm?. <i>PLoS ONE</i> , 2015, 10, e0125121.	1.1	8
42	Combination in Advance Batch Multi-exponentiation on Elliptic Curve. , 2015, , .		0
43	Optimization for Communication Energy Efficiency of Air-Based Information Network While Satisfying Timing Constraints. , 2015, , .		3
44	Auditing and Revocation Enabled Role-Based Access Control over Outsourced Private EHRs. , 2015, , .		24
45	PERM-GUARD: Authenticating the Validity of Flow Rules in Software Defined Networking. , 2015, , .		10
46	Influence of proximal drug eluting stent (DES) on distal bare metal stent (BMS) in multi-stent implantation strategies in coronary arteries. <i>Medical Engineering and Physics</i> , 2015, 37, 840-844.	0.8	4
47	Effects of endothelium, stent design and deployment on the nitric oxide transport in stented artery: a potential role in stent restenosis and thrombosis. <i>Medical and Biological Engineering and Computing</i> , 2015, 53, 427-439.	1.6	10
48	Hemodynamic insight into overlapping bare-metal stents strategy in the treatment of aortic aneurysm. <i>Journal of Biomechanics</i> , 2015, 48, 2041-2046.	0.9	34
49	Physiological Significance of Helical Flow in the Arterial System and its Potential Clinical Applications. <i>Annals of Biomedical Engineering</i> , 2015, 43, 3-15.	1.3	118
50	Simulation of Contrast Agent Transport in Arteries with Multilayer Arterial Wall: Impact of Arterial Transmural Transport on the Bolus Delay and Dispersion. <i>Scientific World Journal, The</i> , 2014, 2014, 1-13.	0.8	1
51	Experimental performance comparisons between (H)IBE schemes over composite-order and prime-order bilinear groups. , 2014, , .		3
52	Enhanced accumulation of LDLs within the venous graft wall induced by elevated filtration rate may account for its accelerated atherogenesis. <i>Atherosclerosis</i> , 2014, 236, 198-206.	0.4	8
53	Nitric Oxide Transport in Normal Human Thoracic Aorta: Effects of Hemodynamics and Nitric Oxide Scavengers. <i>PLoS ONE</i> , 2014, 9, e112395.	1.1	16
54	Modeling method of SysML-based reliability block diagram. , 2013, , .		2

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55	Numerical simulation of nucleotide transport in the human thoracic aorta. <i>Journal of Biomechanics</i> , 2013, 46, 819-827.	0.9	8
56	Nitric oxide transport in an axisymmetric stenosis. <i>Journal of the Royal Society Interface</i> , 2012, 9, 2468-2478.	1.5	23
57	A Survey on Gas Sensing Technology. <i>Sensors</i> , 2012, 12, 9635-9665.	2.1	1,116
58	Mechanotransduction of Flow-Induced Shear Stress by Endothelial Glycocalyx Fibers is Torque Determined. <i>ASAIO Journal</i> , 2011, 57, 487-494.	0.9	6
59	Effect of the endothelial glycocalyx layer on arterial LDL transport under normal and high pressure. <i>Journal of Theoretical Biology</i> , 2011, 283, 71-81.	0.8	41
60	Effect of non-Newtonian and pulsatile blood flow on mass transport in the human aorta. <i>Journal of Biomechanics</i> , 2011, 44, 1123-1131.	0.9	155
61	Effect of Spiral Flow on the Transport of Oxygen in the Aorta: A Numerical Study. <i>Annals of Biomedical Engineering</i> , 2010, 38, 917-926.	1.3	85
62	A numerical study on the flow of blood and the transport of LDL in the human aorta: the physiological significance of the helical flow in the aortic arch. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 297, H163-H170.	1.5	159