Jiafeng Zhang

List of Publications by Year
in descending order

23	413	933447 10	794594 19
papers	citations	h-index	g-index

23	23	23	408
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantification of Shearâ€induced Platelet Activation: High Shear Stresses for Short Exposure Time. Artificial Organs, 2015, 39, 576-583.	1.9	57
2	Comparison and Experimental Validation of Fluid Dynamic Numerical Models for a Clinical Ventricular Assist Device. Artificial Organs, 2013, 37, 380-389.	1.9	48
3	Stimulation of Autophagy Prevents Amyloid-Î² Peptide-Induced Neuritic Degeneration in PC12 Cells. Journal of Alzheimer's Disease, 2014, 40, 929-939.	2.6	46
4	Impact of high mechanical shear stress and oxygenator membrane surface on blood damage relevant to thrombosis and bleeding in a pediatric ECMO circuit. Artificial Organs, 2020, 44, 717-726.	1.9	35
5	Computational characterization of flow and blood damage potential of the new maglev CH-VAD pump versus the HVAD and HeartMate II pumps. International Journal of Artificial Organs, 2020, 43, 653-662.	1.4	32
6	Deviceâ€induced platelet dysfunction in mechanically assisted circulation increases the risks of thrombosis and bleeding. Artificial Organs, 2019, 43, 745-755.	1.9	31
7	Evaluation of in vitro hemolysis and platelet activation of a newly developed maglev LVAD and two clinically used LVADs with human blood. Artificial Organs, 2019, 43, 870-879.	1.9	28
8	The impact of shear stress on deviceâ€induced platelet hemostatic dysfunction relevant to thrombosis and bleeding in mechanically assisted circulation. Artificial Organs, 2020, 44, E201-E213.	1.9	25
9	Prediction of mechanical hemolysis in medical devices via a Lagrangian strainâ€based multiscale model. Artificial Organs, 2020, 44, E348-E368.	1.9	20
10	Flow characteristics and hemolytic performance of the new Breethe centrifugal blood pump in comparison with the CentriMag and Rotaflow pumps. International Journal of Artificial Organs, 2021, 44, 829-837.	1.4	14
11	Models of Shear-Induced Platelet Activation and Numerical Implementation With Computational Fluid Dynamics Approaches. Journal of Biomechanical Engineering, 2022, 144, .	1.3	14
12	Modeling Clot Formation of Shear-Injured Platelets in Flow by a Dissipative Particle Dynamics Method. Bulletin of Mathematical Biology, 2020, 82, 83.	1.9	13
13	Computed tomography angiography as an adjunct to computational fluid dynamics for prediction of oxygenator thrombus formation. Perfusion (United Kingdom), 2021, 36, 285-292.	1.0	11
14	Evaluation of an autoregulatory ECMO system for total respiratory support in an acute ovine model. Artificial Organs, 2020, 44, 478-487.	1.9	7
15	Neutrophil injury and function alterations induced by high mechanical shear stress with short exposure time. Artificial Organs, 2021, 45, 577-586.	1.9	7
16	Resveratrol Suppresses Human Nasopharyngeal Carcinoma Cell Growth Via Inhibiting Differentiation Antagonizing Non-Protein Coding RNA (DANCR) Expression. Medical Science Monitor, 2020, 26, e923622.	1.1	7
17	Long nonâ€coding RNA DANCR promotes nasopharyngeal carcinoma cell proliferation and migration. Molecular Medicine Reports, 2019, 19, 2883-2889.	2.4	6
18	A novel adaptor system enables endovascular access through extracorporeal life support circuits. Journal of Thoracic and Cardiovascular Surgery, 2019, 158, 1359-1366.	0.8	4

#	Article	IF	Citations
19	Neutrophil dysfunction due to continuous mechanical shear exposure in mechanically assisted circulation in vitro. Artificial Organs, 2022, 46, 83-94.	1.9	3
20	Model-Based Design and Optimization of Blood Oxygenators. Journal of Medical Devices, Transactions of the ASME, 2020, 14, 041001.	0.7	3
21	Numerical study of the effect of LVAD inflow cannula positioning on thrombosis risk. Computer Methods in Biomechanics and Biomedical Engineering, 2022, 25, 852-860.	1.6	2
22	Experimental Validation of Fluid Dynamic Numerical Models in Blood Pump Simulation. , 2012, , .		0
23	A prestressed biomechanical model for the platelet to capture the morphological change from resting to activated. International Journal of Computational Methods, 0, , .	1.3	0