

# Jiafeng Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

413  
citations

933447

10  
h-index

794594

19  
g-index

23  
all docs

23  
docs citations

23  
times ranked

408  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Models of Shear-Induced Platelet Activation and Numerical Implementation With Computational Fluid Dynamics Approaches. <i>Journal of Biomechanical Engineering</i> , 2022, 144, .                                    | 1.3 | 14        |
| 2  | Neutrophil dysfunction due to continuous mechanical shear exposure in mechanically assisted circulation in vitro. <i>Artificial Organs</i> , 2022, 46, 83-94.  | 1.9 | 3         |
| 3  | Numerical study of the effect of LVAD inflow cannula positioning on thrombosis risk. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2022, 25, 852-860.   | 1.6 | 2         |
| 4  | Computed tomography angiography as an adjunct to computational fluid dynamics for prediction of oxygenator thrombus formation. <i>Perfusion (United Kingdom)</i> , 2021, 36, 285-292.                                | 1.0 | 11        |
| 5  | Neutrophil injury and function alterations induced by high mechanical shear stress with short exposure time. <i>Artificial Organs</i> , 2021, 45, 577-586.   | 1.9 | 7         |
| 6  | Flow characteristics and hemolytic performance of the new Breethe centrifugal blood pump in comparison with the CentriMag and Rotaflow pumps. <i>International Journal of Artificial Organs</i> , 2021, 44, 829-837. | 1.4 | 14        |
| 7  | Evaluation of an autoregulatory ECMO system for total respiratory support in an acute ovine model. <i>Artificial Organs</i> , 2020, 44, 478-487.   | 1.9 | 7         |
| 8  | The impact of shear stress on device-induced platelet hemostatic dysfunction relevant to thrombosis and bleeding in mechanically assisted circulation. <i>Artificial Organs</i> , 2020, 44, E201-E213.               | 1.9 | 25        |
| 9  | Modeling Clot Formation of Shear-Injured Platelets in Flow by a Dissipative Particle Dynamics Method. <i>Bulletin of Mathematical Biology</i> , 2020, 82, 83.  | 1.9 | 13        |
| 10 | Computational characterization of flow and blood damage potential of the new maglev CH-VAD pump versus the HVAD and HeartMate II pumps. <i>International Journal of Artificial Organs</i> , 2020, 43, 653-662.       | 1.4 | 32        |
| 11 | Impact of high mechanical shear stress and oxygenator membrane surface on blood damage relevant to thrombosis and bleeding in a pediatric ECMO circuit. <i>Artificial Organs</i> , 2020, 44, 717-726.                | 1.9 | 35        |
| 12 | Prediction of mechanical hemolysis in medical devices via a Lagrangian strain-based multiscale model. <i>Artificial Organs</i> , 2020, 44, E348-E368.  | 1.9 | 20        |
| 13 | Resveratrol Suppresses Human Nasopharyngeal Carcinoma Cell Growth Via Inhibiting Differentiation Antagonizing Non-Protein Coding RNA (DANCR) Expression. <i>Medical Science Monitor</i> , 2020, 26, e923622.         | 1.1 | 7         |
| 14 | Model-Based Design and Optimization of Blood Oxygenators. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2020, 14, 041001.  | 0.7 | 3         |
| 15 | Evaluation of in vitro hemolysis and platelet activation of a newly developed maglev LVAD and two clinically used LVADs with human blood. <i>Artificial Organs</i> , 2019, 43, 870-879.                              | 1.9 | 28        |
| 16 | A novel adaptor system enables endovascular access through extracorporeal life support circuits. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2019, 158, 1359-1366.                                       | 0.8 | 4         |
| 17 | Device-induced platelet dysfunction in mechanically assisted circulation increases the risks of thrombosis and bleeding. <i>Artificial Organs</i> , 2019, 43, 745-755.   | 1.9 | 31        |
| 18 | Long non-coding RNA DANCR promotes nasopharyngeal carcinoma cell proliferation and migration. <i>Molecular Medicine Reports</i> , 2019, 19, 2883-2889.   | 2.4 | 6         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Quantification of Shear-Induced Platelet Activation: High Shear Stresses for Short Exposure Time. Artificial Organs, 2015, 39, 576-583.                                  | 1.9 | 57        |
| 20 | Stimulation of Autophagy Prevents Amyloid- $\beta$ Peptide-Induced Neuritic Degeneration in PC12 Cells. Journal of Alzheimer's Disease, 2014, 40, 929-939.               | 2.6 | 46        |
| 21 | Comparison and Experimental Validation of Fluid Dynamic Numerical Models for a Clinical Ventricular Assist Device. Artificial Organs, 2013, 37, 380-389.                 | 1.9 | 48        |
| 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         |