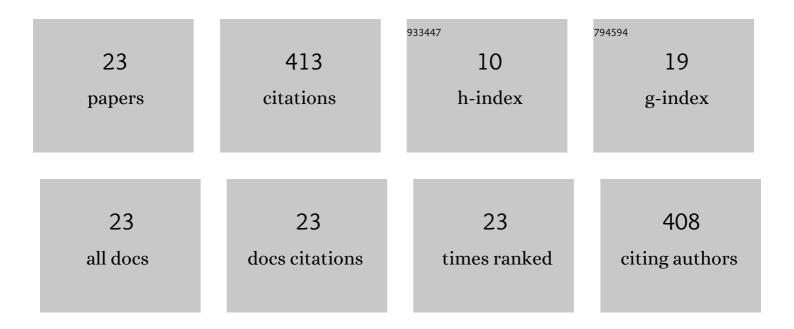
## Jiafeng Zhang

List of Publications by Year in descending order

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LIAFENC ZHANC

| #  | Article  | lF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Quantification of Shearâ€Induced Platelet Activation: High Shear Stresses for Short Exposure Time.<br>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-β Peptide-Induced Neuritic Degeneration in PC12 Cells.<br>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.<br>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<br>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.<br>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.<br>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<br>Antagonizing Non-Protein Coding RNA (DANCR) Expression. Medical Science Monitor, 2020, 26, e923622.      | 1.1 | 7         |
| 17 | Long nonâ€ʿcoding RNA DANCR promotes nasopharyngeal carcinoma cell proliferation and migration.<br>Molecular Medicine Reports, 2019, 19, 2883-2889.  | 2.4 | 6         |
| 18 | A novel adaptor system enables endovascular access through extracorporeal life support circuits.<br>Journal of Thoracic and Cardiovascular Surgery, 2019, 158, 1359-1366.                                    | 0.8 | 4         |

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| #  | 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<br>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         |