

Zhenglun Alan Wei

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

25
papers

321
citations

12
h-index

17
g-index

27
ext. papers

396
ext. citations

3
avg, IF

3.65
L-index

#	Paper	IF	Citations
25	A Simplified In Silico Model of Left Ventricular Outflow in Patients After Transcatheter Mitral Valve Replacement with Anterior Leaflet Laceration. <i>Annals of Biomedical Engineering</i> , 2021 , 49, 1449-1461	4.7	4
24	Is Doppler Echocardiography Adequate for Surgical Planning of Single Ventricle Patients?. <i>Cardiovascular Engineering and Technology</i> , 2021 , 1	2.2	2
23	Dynamic nature of the LVOT following transcatheter mitral valve replacement with LAMPOON: new insights from post-procedure imaging. <i>European Heart Journal Cardiovascular Imaging</i> , 2021 ,	4.1	1
22	Engineering Perspective on Cardiovascular Simulations of Fontan Hemodynamics: Where Do We Stand with a Look Towards Clinical Application. <i>Cardiovascular Engineering and Technology</i> , 2021 , 1	2.2	2
21	An Anterior Anastomosis for the Modified Fontan Connection: A Hemodynamic Analysis. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2021 , 33, 816-823	1.7	1
20	Framework for Planning TMVR using 3-D Imaging, In Silico Modeling, and Virtual Reality. <i>Structural Heart</i> , 2020 , 4, 336-341	0.6	2
19	Comparison of Fontan Surgical Options for Patients with Apicocaval Juxtaposition. <i>Pediatric Cardiology</i> , 2020 , 41, 1021-1030	2.1	3
18	Computational modeling of a right-sided Fontan assist device: Effectiveness across patient anatomies and cannulations. <i>Journal of Biomechanics</i> , 2020 , 109, 109917	2.9	3
17	Cardiac Magnetic Resonance-Derived Metrics Are Predictive of Liver Fibrosis in Fontan Patients. <i>Annals of Thoracic Surgery</i> , 2020 , 109, 1904-1911	2.7	15
16	Impact of Free-Breathing Phase-Contrast MRI on Decision-Making in Fontan Surgical Planning. <i>Journal of Cardiovascular Translational Research</i> , 2020 , 13, 640-647	3.3	5
15	Fluid-Structure Interaction Simulation of an Intra-Atrial Fontan Connection. <i>Biology</i> , 2020 , 9,	4.9	8
14	Analysis of Inlet Velocity Profiles in Numerical Assessment of Fontan Hemodynamics. <i>Annals of Biomedical Engineering</i> , 2019 , 47, 2258-2270	4.7	16
13	The first cohort of prospective Fontan surgical planning patients with follow-up data: How accurate is surgical planning?. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2019 , 157, 1146-1155	1.5	20
12	The effect of respiration-driven flow waveforms on hemodynamic metrics used in Fontan surgical planning. <i>Journal of Biomechanics</i> , 2019 , 82, 87-95	2.9	13
11	Computational Fluid Dynamics Assessment Associated with Transcatheter Heart Valve Prostheses: A Position Paper of the ISO Working Group. <i>Cardiovascular Engineering and Technology</i> , 2018 , 9, 289-299	2.2	22
10	Fontan Surgical Planning: Previous Accomplishments, Current Challenges, and Future Directions. <i>Journal of Cardiovascular Translational Research</i> , 2018 , 11, 133-144	3.3	36
9	Leg lean mass correlates with exercise systemic output in young Fontan patients. <i>Heart</i> , 2018 , 104, 680-684	5.84	14

8	Fluid-Structure Interaction Simulation on Energy Harvesting From Vortical Flows by a Passive Heaving Foil. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2018 , 140,	2.1	11
7	Using a Novel In Vitro Fontan Model and Condition-Specific Real-Time MRI Data to Examine Hemodynamic Effects of Respiration and Exercise. <i>Annals of Biomedical Engineering</i> , 2018 , 46, 135-147	4.7	14
6	The Advantages of Viscous Dissipation Rate over Simplified Power Loss as a Fontan Hemodynamic Metric. <i>Annals of Biomedical Engineering</i> , 2018 , 46, 404-416	4.7	23
5	Transcatheter Mitral Valve Planning and the Neo-LVOT: Utilization of Virtual Simulation Models and 3D Printing. <i>Current Treatment Options in Cardiovascular Medicine</i> , 2018 , 20, 99	2.1	27
4	A Method for In Vitro TCPC Compliance Verification. <i>Journal of Biomechanical Engineering</i> , 2017 , 139,	2.1	8
3	Effect of Fontan geometry on exercise haemodynamics and its potential implications. <i>Heart</i> , 2017 , 103, 1806-1812	5.1	35
2	Can time-averaged flow boundary conditions be used to meet the clinical timeline for Fontan surgical planning?. <i>Journal of Biomechanics</i> , 2017 , 50, 172-179	2.9	27
1	Computation of Flow Through a Three-Dimensional Periodic Array of Porous Structures by a Parallel Immersed-Boundary Method. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2014 , 136,	2.1	8