

Zhenglun Alan Wei

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

481
citations

686830

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713013

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27
all docs

27
docs citations

27
times ranked

474
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Fontan geometry on exercise haemodynamics and its potential implications. <i>Heart</i> , 2017, 103, 1806-1812.	1.2	46
2	Fontan Surgical Planning: Previous Accomplishments, Current Challenges, and Future Directions. <i>Journal of Cardiovascular Translational Research</i> , 2018, 11, 133-144.	1.1	46
3	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.	0.4	44
4	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.	0.4	34
5	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.	1.3	32
6	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.	0.9	29
7	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.	0.7	29
8	Leg lean mass correlates with exercise systemic output in young Fontan patients. <i>Heart</i> , 2018, 104, 680-684.	1.2	29
9	Analysis of Inlet Velocity Profiles in Numerical Assessment of Fontan Hemodynamics. <i>Annals of Biomedical Engineering</i> , 2019, 47, 2258-2270.	1.3	24
10	Cardiac Magnetic Resonanceâ€“Derived Metrics Are Predictive of Liver Fibrosis in Fontan Patients. <i>Annals of Thoracic Surgery</i> , 2020, 109, 1904-1911.	0.7	22
11	Fluid-Structure Interaction Simulation of an Intra-Atrial Fontan Connection. <i>Biology</i> , 2020, 9, 412.	1.3	22
12	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.	1.3	16
13	Fluidâ€“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, .	0.8	13
14	The effect of respiration-driven flow waveforms on hemodynamic metrics used in Fontan surgical planning. <i>Journal of Biomechanics</i> , 2019, 82, 87-95.	0.9	13
15	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> , 2022, 23, 650-662.	0.5	12
16	Clinical Impact of Computational Heart Valve Models. <i>Materials</i> , 2022, 15, 3302.	1.3	12
17	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, .	0.8	10
18	A Method for In Vitro TCPC Compliance Verification. <i>Journal of Biomechanical Engineering</i> , 2017, 139, .	0.6	9

#	ARTICLE	IF	CITATIONS
19	Comparison of Fontan Surgical Options for Patients with Apicocaval Juxtaposition. <i>Pediatric Cardiology</i> , 2020, 41, 1021-1030.	0.6	8
20	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.	1.3	7
21	Fontan Geometry and Hemodynamics Are Associated With Quality of Life in Adolescents and Young Adults. <i>Annals of Thoracic Surgery</i> , 2022, 114, 841-847.	0.7	6
22	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.	1.1	5
23	Computational modeling of a right-sided Fontan assist device: Effectiveness across patient anatomies and cannulations. <i>Journal of Biomechanics</i> , 2020, 109, 109917.	0.9	4
24	Framework for Planning TMVR using 3-D Imaging, In Silico Modeling, and Virtual Reality. <i>Structural Heart</i> , 2020, 4, 336-341.	0.2	3
25	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, 12, 618-630.	0.7	3
26	Is Doppler Echocardiography Adequate for Surgical Planning of Single Ventricle Patients?. <i>Cardiovascular Engineering and Technology</i> , 2021, , 1.	0.7	2
27	An Anterior Anastomosis for the Modified Fontan Connection: A Hemodynamic Analysis. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2021, 33, 816-823.	0.4	1