List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Computational Fluid Dynamics Prediction of Blood Damage in a Centrifugal Pump. Artificial Organs, 2003, 27, 938-941. | 1.9 | 116 |
| 2 | Quantitative Evaluation of Blood Damage in a Centrifugal VAD by Computational Fluid Dynamics. Journal of Fluids Engineering, Transactions of the ASME, 2004, 126, 410-418. | 1.5 | 74 |
| 3 | Fluid–structure interaction modeling in cardiovascular medicine – A systematic review 2017–2019. Medical Engineering and Physics, 2020, 78, 1-13. | 1.7 | 57 |
| 4 | Pediatric Circulatory Support Systems. ASAIO Journal, 2002, 48, 216-221. | 1.6 | 48 |
| 5 | Numerical, Hydraulic, and Hemolytic Evaluation of an Intravascular Axial Flow Blood Pump to Mechanically Support Fontan Patients. Annals of Biomedical Engineering, 2011, 39, 324-336. | 2.5 | 47 |
| 6 | Pediatric Circulatory Support: Current Strategies and Future Directions. Biventricular and Univentricular Mechanical Assistance. ASAIO Journal, 2008, 54, 491-497. | 1.6 | 39 |
| 7 | Numerical Design and Experimental Hydraulic Testing of an Axial Flow Ventricular Assist Device for Infants and Children. ASAIO Journal, 2007, 53, 754-761. | 1.6 | 38 |
| 8 | Intravascular Mechanical Cavopulmonary Assistance for Patients With Failing Fontan Physiology. Artificial Organs, 2009, 33, 977-987. | 1.9 | 37 |
| 9 | Mechanical Circulatory Support Devices for Pediatric Patients With Congenital Heart Disease. Artificial Organs, 2017, 41, E1-E14. | 1.9 | 33 |
| 10 | Design and Transient Computational Fluid Dynamics Study of a Continuous Axial Flow Ventricular Assist Device. ASAIO Journal, 2004, 50, 215-224. | 1.6 | 31 |
| 11 | Computational Design and Experimental Performance Testing of an Axial-Flow Pediatric Ventricular Assist Device. ASAIO Journal, 2005, 51, 629-635. | 1.6 | 30 |
| 12 | A Viable Therapeutic Option: Mechanical Circulatory Support of the Failing Fontan Physiology. Pediatric Cardiology, 2013, 34, 1357-1365. | 1.3 | 30 |
| 13 | Mechanical Cavopulmonary Assistance of a Patient-Specific Fontan Physiology: Numerical Simulations, Lumped Parameter Modeling, and Suction Experiments. Artificial Organs, 2011, 35, 1036-1047. | 1.9 | 29 |
| 14 | CFD Analysis of a Mag-Lev Ventricular Assist Device for Infants and Children: Fourth Generation Design. ASAIO Journal, 2008, 54, 423-431. | 1.6 | 28 |
| 15 | Methods of Failure and Reliability Assessment for Mechanical Heart Pumps. Artificial Organs, 2005, 29, 15-25. | 1.9 | 26 |
| 16 | The medical physics of ventricular assist devices. Reports on Progress in Physics, 2005, 68, 545-576. | 20.1 | 25 |
| 17 | Design of a Protective Cage for an Intravascular Axial Flow Blood Pump to Mechanically Assist the Failing Fontan. Artificial Organs, 2009, 33, 611-621. | 1.9 | 25 |
| 18 | Hybrid Continuousâ€Flow Total Artificial Heart. Artificial Organs, 2018, 42, 500-509. | 1.9 | 19 |

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|----|--|-----|-----------|
| 19 | Dualâ€Pump Support in the Inferior and Superior Vena Cavae of a Patientâ€Specific <scp>F</scp> ontan Physiology. Artificial Organs, 2013, 37, 513-522. | 1.9 | 18 |
| 20 | Clinical implications of LDH isoenzymes in hemolysis and continuousâ€flow left ventricular assist deviceâ€induced thrombosis. Artificial Organs, 2020, 44, 231-238. | 1.9 | 18 |
| 21 | Hydraulic Testing of Intravascular Axial Flow Blood Pump Designs With a Protective Cage of Filaments for Mechanical Cavopulmonary Assist. ASAIO Journal, 2010, 56, 17-23. | 1.6 | 16 |
| 22 | Total Artificial Hearts-Past, Current, and Future. Journal of Cardiac Surgery, 2015, 30, 856-864. | 0.7 | 16 |
| 23 | Design of Axial Blood Pumps for Patients With Dysfunctional <scp>F</scp> ontan Physiology: Computational Studies and Performance Testing. Artificial Organs, 2015, 39, 34-42. | 1.9 | 15 |
| 24 | Fluid Force Predictions and Experimental Measurements for a Magnetically Levitated Pediatric Ventricular Assist Device. Artificial Organs, 2007, 31, 359-368. | 1.9 | 14 |
| 25 | Interaction of an Idealized Cavopulmonary Circulation With Mechanical Circulatory Assist Using an Intravascular Rotary Blood Pump. Artificial Organs, 2010, 34, 816-827. | 1.9 | 14 |
| 26 | Steady Flow Analysis of Mechanical Cavopulmonary Assistance in MRIâ€Derived Patientâ€Specific Fontan Configurations. Artificial Organs, 2012, 36, 972-980. | 1.9 | 14 |
| 27 | Beyond the <scp>VAD</scp> : Human Factors Engineering for Mechanically Assisted Circulation in the 21st Century. Artificial Organs, 2016, 40, 539-548. | 1.9 | 13 |
| 28 | Microscale impeller pump for recirculating flow in organs-on-chip and microreactors. Lab on A Chip, 2022, 22, 605-620. | 6.0 | 13 |
| 29 | Laser Flow Measurements in an Idealized Total Cavopulmonary Connection With Mechanical Circulatory Assistance. Artificial Organs, 2011, 35, 1052-1064. | 1.9 | 12 |
| 30 | Pressure–Flow Experimental Performance of New Intravascular Blood Pump Designs for Fontan Patients. Artificial Organs, 2016, 40, 233-242. | 1.9 | 12 |
| 31 | A Formal Task-Analytic Approach to Medical Device Alarm Troubleshooting Instructions. IEEE Transactions on Human-Machine Systems, 2016, 46, 53-65. | 3.5 | 12 |
| 32 | Controlled Pitch-Adjustment of Impeller Blades for an Intravascular Blood Pump. ASAIO Journal, 2012, 58, 382-389. | 1.6 | 9 |
| 33 | Twisted Cardiovascular Cages for Intravascular Axial Flow Blood Pumps to Support the Fontan Physiology. International Journal of Artificial Organs, 2012, 35, 369-375. | 1.4 | 9 |
| 34 | Uniquely shaped cardiovascular stents enhance the pressure generation of intravascular blood pumps. Journal of Thoracic and Cardiovascular Surgery, 2012, 144, 704-709. | 0.8 | 9 |
| 35 | Mechanical Circulatory Support of the Right Ventricle for Adult and Pediatric Patients With Heart Failure. ASAIO Journal, 2019, 65, 106-116. | 1.6 | 9 |
| 36 | New versatile dualâ€support pediatric heart pump. Artificial Organs, 2019, 43, 1055-1064. | 1.9 | 9 |

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|----|---|-----|-----------|
| 37 | Physics-driven impeller designs for a novel intravascular blood pump for patients with congenital heart disease. Medical Engineering and Physics, 2016, 38, 622-632. | 1.7 | 8 |
| 38 | Technology landscape of pediatric mechanical circulatory support devices: A systematic review 2010–2021. Artificial Organs, 2022, 46, 1475-1490. | 1.9 | 8 |
| 39 | Experimental Measurements of Energy Augmentation for Mechanical Circulatory Assistance in a Patient-Specific Fontan Model. Artificial Organs, 2014, 38, n/a-n/a. | 1.9 | 7 |
| 40 | Flexible Impeller Blades in an Axial Flow Pump for Intravascular Cavopulmonary Assistance of the Fontan Physiology. Cardiovascular Engineering and Technology, 2010, 1, 244-255. | 1.6 | 6 |
| 41 | Threeâ€Dimensional Laser Flow Measurements of a Patientâ€Specific <scp>F</scp> ontan Physiology With Mechanical Circulatory Assistance. Artificial Organs, 2015, 39, E67-78. | 1.9 | 6 |
| 42 | Fluidâ€structure interaction analysis of a collapsible axial flow blood pump impeller and protective cage for Fontan patients. Artificial Organs, 2020, 44, E337-E347. | 1.9 | 5 |
| 43 | Filament Support Spindle for an Intravascular Cavopulmonary Assist Device. Artificial Organs, 2010, 34, 1039-1044. | 1.9 | 4 |
| 44 | Stereo-Particle Image Velocimetry Measurements of a Patient-Specific Fontan Physiology Utilizing Novel Pressure Augmentation Stents. Artificial Organs, 2015, 39, 228-236. | 1.9 | 4 |
| 45 | Externally applied compression therapy for Fontan patients. Translational Pediatrics, 2018, 7, 14-22. | 1.2 | 3 |
| 46 | Integrated longâ€ŧerm multifunctional pediatric mechanical circulatory assist device. Artificial Organs, 2021, 45, E65-E78. | 1.9 | 3 |
| 47 | Forward-thinking design solutions for mechanical circulatory support: multifunctional hybrid continuous-flow ventricular assist device technology. Annals of Cardiothoracic Surgery, 2021, 10, 383-385. | 1.7 | 3 |
| 48 | Steady and Transient Flow Analysis of a Magnetically Levitated Pediatric VAD: Time Varying Boundary Conditions. International Journal of Artificial Organs, 2013, 36, 693-699. | 1.4 | 2 |
| 49 | Using Formal Task Analytic Models to Support User Manual Development: An LVAD Case Study. Proceedings of the International Symposium of Human Factors and Ergonomics in Healthcare, 2015, 4, 114-117. | 0.3 | 2 |
| 50 | Retrograde flow in aortic isthmus in normal and fetal heart disease by principal component analysis and computational fluid dynamics. Echocardiography, 2022, 39, 166-177. | 0.9 | 2 |
| 51 | Cardiac Magnetic Resonance Imaging of Mechanical Cavopulmonary Assistance. Journal of Medical Devices, Transactions of the ASME, 2019, 13, . | 0.7 | 1 |
| 52 | Pediatric mechanical circulatory support—leveraging design innovation for the younger generation. Journal of Cardiac Surgery, 2020, 35, 8-10. | 0.7 | 1 |
| 53 | Invited commentary: A prospective randomized trial on parents' disease knowledge and quality of life. Shall WeChat about telehealth?. Journal of Cardiac Surgery, 2021, 36, 3698-3701. | 0.7 | 1 |
| 54 | Tunable Blood Shunt for Neonates With Complex Congenital Heart Defects. Frontiers in Bioengineering and Biotechnology, 2021, 9, 734310. | 4.1 | 1 |

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| 55 | Invited commentary for: Essential role of cardiac computed tomography for surgical decision making in children with total anomalous pulmonary venous connection and single ventricle. Journal of Cardiac Surgery, 2022, , . | 0.7 | 1 |
| 56 | Mechanical and interventional support for heart failure with preserved ejection fraction: A review. Artificial Organs, 2022, , . | 1.9 | 1 |
| 57 | Vortical flow characteristics of mechanical cavopulmonary assistance: Pre- and post-swirl dynamics. Technology and Health Care, 2016, 24, 627-638. | 1.2 | 0 |
| 58 | Invited commentary: Personalized surgical planning by computational and visual methods in 21st entury medical engineering. Journal of Cardiac Surgery, 2020, 35, 526-527. | 0.7 | 0 |
| 59 | On the path to permanent artificial heart technology: Greater energy independence is paramount. Artificial Organs, 2021, 45, 332-335. | 1.9 | 0 |
| 60 | Invited commentary for coarctation and hypoplastic distal aortic arch; a keystone shift away from the archway?. Journal of Cardiac Surgery, 2021, 36, 2070-2071. | 0.7 | 0 |
| 61 | The newly emerging field of pediatric engineering: Innovation for our next generation. Artificial Organs, 2021, 45, 537-541. | 1.9 | 0 |
| 62 | Invited commentary for asymmetric dimethylarginine (ADMA): Is it a risk factor in the repair of aortic coarctation?. Journal of Cardiac Surgery, 2021, 36, 2741-2742. | 0.7 | 0 |
| 63 | Multiâ€disciplinary frameworks for the treatment of primary cardiac sarcoma. Journal of Cardiac Surgery, 2021, 36, 3456-3457. | 0.7 | 0 |
| 64 | Pneumatically-driven external pressure applicator to augment Fontan hemodynamics: preliminary findings. Translational Pediatrics, 2013, 2, 148-53. | 1.2 | 0 |
| 65 | Invited commentary: Total anomalous pulmonary venous connection remains a challenging pediatric disease. Journal of Cardiac Surgery, 0, , . | 0.7 | 0 |