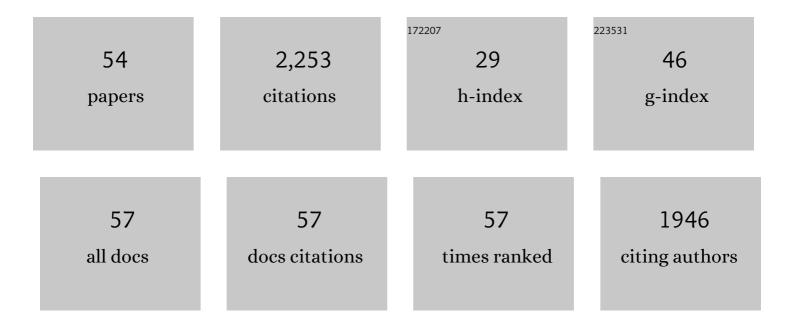
Diane A De Zélicourt

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Glymphatic solute transport does not require bulk flow. Scientific Reports, 2016, 6, 38635.	1.6	231
2	Physics-Driven CFD Modeling of Complex Anatomical Cardiovascular Flows?A TCPC Case Study. Annals of Biomedical Engineering, 2005, 33, 284-300.	1.3	106
3	Introduction of a New Optimized Total Cavopulmonary Connection. Annals of Thoracic Surgery, 2007, 83, 2182-2190.	0.7	94
4	Flow induced by ependymal cilia dominates near-wall cerebrospinal fluid dynamics in the lateral ventricles. Journal of the Royal Society Interface, 2014, 11, 20131189.	1.5	93
5	Patient-specific surgical planning and hemodynamic computational fluid dynamics optimization through free-form haptic anatomy editing tool (SURGEM). Medical and Biological Engineering and Computing, 2008, 46, 1139-1152.	1.6	88
6	Fontan hemodynamics from 100 patient-specific cardiac magnetic resonance studies: A computational fluid dynamics analysis. Journal of Thoracic and Cardiovascular Surgery, 2014, 148, 1481-1489.	0.4	86
7	Coupling Pediatric Ventricle Assist Devices to the Fontan Circulation: Simulations with a Lumped-Parameter Model. ASAIO Journal, 2005, 51, 618-628.	0.9	78
8	Correction of Pulmonary Arteriovenous Malformation Using Image-Based Surgical Planning. JACC: Cardiovascular Imaging, 2009, 2, 1024-1030.	2.3	75
9	How astrocyte networks may contribute to cerebral metabolite clearance. Scientific Reports, 2015, 5, 15024.	1.6	74
10	Fluid Dynamics in the HeartMate 3: Influence of the Artificial Pulse Feature and Residual Cardiac Pulsation. Artificial Organs, 2019, 43, 363-376.	1.0	72
11	Total Cavopulmonary Connection Flow With Functional Left Pulmonary Artery Stenosis. Circulation, 2005, 112, 3264-3271.	1.6	67
12	In Vitro Flow Analysis of a Patient-Specific Intraatrial Total Cavopulmonary Connection. Annals of Thoracic Surgery, 2005, 79, 2094-2102.	0.7	64
13	Blood Pump Design Variations and Their Influence on Hydraulic Performance and Indicators of Hemocompatibility. Annals of Biomedical Engineering, 2018, 46, 417-428.	1.3	64
14	Flow study of an extracardiac connection with persistent left superior vena cava. Journal of Thoracic and Cardiovascular Surgery, 2006, 131, 785-791.	0.4	60
15	Progress in the CFD Modeling of Flow Instabilities in Anatomical Total Cavopulmonary Connections. Annals of Biomedical Engineering, 2007, 35, 1840-1856.	1.3	52
16	Comparing Pre- and Post-operative Fontan Hemodynamic Simulations: Implications for the Reliability of Surgical Planning. Annals of Biomedical Engineering, 2012, 40, 2639-2651.	1.3	52
17	Rapid adaptation to microgravity in mammalian macrophage cells. Scientific Reports, 2017, 7, 43.	1.6	50
18	Single-Step Stereolithography of Complex Anatomical Models for Optical Flow Measurements. Journal of Biomechanical Engineering, 2005, 127, 204-207.	0.6	49

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19	Pulmonary hepatic flow distribution in total cavopulmonary connections: Extracardiac versus intracardiac. Journal of Thoracic and Cardiovascular Surgery, 2011, 141, 207-214.	0.4	49
20	Flow simulations in arbitrarily complex cardiovascular anatomies – An unstructured Cartesian grid approach. Computers and Fluids, 2009, 38, 1749-1762.	1.3	48
21	Individualized computer-based surgical planning to address pulmonary arteriovenous malformations in patients with a single ventricle with an interrupted inferior vena cava and azygous continuation. Journal of Thoracic and Cardiovascular Surgery, 2011, 141, 1170-1177.	0.4	48
22	Visualization of flow structures in Fontan patients using 3-dimensional phase contrast magnetic resonance imaging. Journal of Thoracic and Cardiovascular Surgery, 2012, 143, 1108-1116.	0.4	45
23	Hemodynamic Modeling of Surgically Repaired Coarctation of the Aorta. Cardiovascular Engineering and Technology, 2011, 2, 288-295.	0.7	44
24	Preliminary clinical experience with a bifurcated Y-graft Fontan procedure—A feasibility study. Journal of Thoracic and Cardiovascular Surgery, 2012, 144, 383-389.	0.4	42
25	Hemodynamic Performance of Stage-2 Univentricular Reconstruction: Glenn vs. Hemi-Fontan Templates. Annals of Biomedical Engineering, 2009, 37, 50-63.	1.3	41
26	Virtual surgical planning, flow simulation, and 3-dimensional electrospinning of patient-specific grafts to optimize Fontan hemodynamics. Journal of Thoracic and Cardiovascular Surgery, 2018, 155, 1734-1742.	0.4	41
27	Power loss and right ventricular efficiency in patients after tetralogy of Fallot repair with pulmonary insufficiency: Clinical implications. Journal of Thoracic and Cardiovascular Surgery, 2012, 143, 1279-1285.	0.4	39
28	Simulating hemodynamics of the Fontan Y-graft based on patient-specific inÂvivo connections. Journal of Thoracic and Cardiovascular Surgery, 2013, 145, 663-670.	0.4	39
29	Imaging and patient-specific simulations for the Fontan surgery: Current methodologies and clinical applications. Progress in Pediatric Cardiology, 2010, 30, 31-44.	0.2	34
30	Hemodynamic Energy Dissipation in the Cardiovascular System: Generalized Theoretical Analysis on Disease States. Annals of Biomedical Engineering, 2009, 37, 661-673.	1.3	31
31	Thrombotic Risk of Rotor Speed Modulation Regimes of Contemporary Centrifugal Continuous-flow Left Ventricular Assist Devices. ASAIO Journal, 2021, 67, 737-745.	0.9	30
32	Patient-Specific Surgical Planning, Where Do We Stand? The Example of the Fontan Procedure. Annals of Biomedical Engineering, 2016, 44, 174-186.	1.3	26
33	Hypoxia sensing by hepatic stellate cells leads to VEGF-dependent angiogenesis and may contribute to accelerated liver regeneration. Scientific Reports, 2020, 10, 4392.	1.6	26
34	Three-Dimensional Velocity Field Reconstruction. Journal of Biomechanical Engineering, 2004, 126, 727-735.	0.6	22
35	Larger aortic reconstruction corresponds to diminished left pulmonary artery size in patients with single-ventricle physiology. Journal of Thoracic and Cardiovascular Surgery, 2010, 139, 557-561.	0.4	21
36	Effect of flow pulsatility on modeling the hemodynamics in the total cavopulmonary connection. Journal of Biomechanics, 2012, 45, 2376-2381.	0.9	20

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37	Influence of Standard Laboratory Procedures on Measures of Erythrocyte Damage. Frontiers in Physiology, 2017, 8, 731.	1.3	18
38	Rapid Cellular Perception of Gravitational Forces in Human Jurkat T Cells and Transduction into Gene Expression Regulation. International Journal of Molecular Sciences, 2020, 21, 514.	1.8	17
39	Numerical and experimental investigation of pulsatile hemodynamics in the total cavopulmonary connection. Journal of Biomechanics, 2013, 46, 373-382.	0.9	15
40	Assessment of intracranial dynamics in hydrocephalus: effects of viscoelasticity on the outcome of infusion tests. Journal of Neurosurgery, 2013, 119, 1511-1519.	0.9	15
41	Barrier dysfunction or drainage reduction: differentiating causes of CSF protein increase. Fluids and Barriers of the CNS, 2017, 14, 14.	2.4	15
42	Modified control grid interpolation for the volumetric reconstruction of fluid flows. Experiments in Fluids, 2008, 45, 987-997.	1.1	14
43	Cannulation Strategy for Aortic Arch Reconstruction Using Deep Hypothermic Circulatory Arrest. Annals of Thoracic Surgery, 2012, 94, 614-620.	0.7	13
44	In Vitro Testing and Comparison of Additively Manufactured Polymer Impellers for the CentriMag Blood Pump. ASAIO Journal, 2021, 67, 306-313.	0.9	12
45	Insights Into the Low Rate of In-Pump Thrombosis With the HeartMate 3: Does the Artificial Pulse Improve Washout?. Frontiers in Cardiovascular Medicine, 2022, 9, 775780.	1.1	12
46	Advances in Cardiovascular Fluid Mechanics: Bench to Bedside. Annals of the New York Academy of Sciences, 2009, 1161, 1-25.	1.8	10
47	Anatomically Realistic Patient-Specific Surgical Planning of Complex Congenital Heart Defects Using MRI and CFD. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 202-5.	0.5	9
48	Pulsatile Hemodynamics of the Fontan Connection: A Tri-Modal Investigation. , 2011, , .		1
49	Patient-Specific Surgery Planning for the Fontan Procedure. , 2013, , 217-228.		1
50	Advances in Computational Simulations for Interventional Treatments and Surgical Planning. , 2010, , 343-373.		0
51	Hemodynamic Energy Dissipation in the Cardiovascular System: Generalized Theoretical Analysis on Disease States. , 2008, , .		Ο
52	Importance of Pre-Operative Hemodynamics in the Surgical Planning of Complex Single Ventricle Patients. , 2010, , .		0
53	Comparing Pre-Operative Predictions and Post-Operative Fontan Hemodynamic Outcomes: Implications for Computer-Based Surgery Planning. , 2012, , .		0
54	Effect of Flow Pulsatility on Modeling the Total Cavopulmonary Hemodynamics: A Numerical Investigation. , 2012, , .		0

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