

# Diane A De Zlicourt

## List of Publications by Citations

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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.

50  
papers

1,762  
citations

29  
h-index

41  
g-index

57  
ext. papers

2,040  
ext. citations

3.6  
avg, IF

4.52  
L-index

#	Paper	IF	Citations
50	Glymphatic solute transport does not require bulk flow. <i>Scientific Reports</i> , <b>2016</b> , 6, 38635	4.9	156
49	Physics-driven CFD modeling of complex anatomical cardiovascular flows-a TCPC case study. <i>Annals of Biomedical Engineering</i> , <b>2005</b> , 33, 284-300	4.7	97
48	Introduction of a new optimized total cavopulmonary connection. <i>Annals of Thoracic Surgery</i> , <b>2007</b> , 83, 2182-90	2.7	85
47	Patient-specific surgical planning and hemodynamic computational fluid dynamics optimization through free-form haptic anatomy editing tool (SURGEM). <i>Medical and Biological Engineering and Computing</i> , <b>2008</b> , 46, 1139-52	3.1	77
46	Flow induced by ependymal cilia dominates near-wall cerebrospinal fluid dynamics in the lateral ventricles. <i>Journal of the Royal Society Interface</i> , <b>2014</b> , 11, 20131189	4.1	73
45	Correction of pulmonary arteriovenous malformation using image-based surgical planning. <i>JACC: Cardiovascular Imaging</i> , <b>2009</b> , 2, 1024-30	8.4	70
44	Coupling pediatric ventricle assist devices to the Fontan circulation: simulations with a lumped-parameter model. <i>ASAIO Journal</i> , <b>2005</b> , 51, 618-28	3.6	61
43	Flow study of an extracardiac connection with persistent left superior vena cava. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2006</b> , 131, 785-91	1.5	60
42	In vitro flow analysis of a patient-specific intraatrial total cavopulmonary connection. <i>Annals of Thoracic Surgery</i> , <b>2005</b> , 79, 2094-102	2.7	59
41	Total cavopulmonary connection flow with functional left pulmonary artery stenosis: angioplasty and fenestration in vitro. <i>Circulation</i> , <b>2005</b> , 112, 3264-71	16.7	58
40	Fontan hemodynamics from 100 patient-specific cardiac magnetic resonance studies: a computational fluid dynamics analysis. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2014</b> , 148, 1481-9	1.5	57
39	How astrocyte networks may contribute to cerebral metabolite clearance. <i>Scientific Reports</i> , <b>2015</b> , 5, 15024	4.9	52
38	Flow simulations in arbitrarily complex cardiovascular anatomies [An unstructured Cartesian grid approach. <i>Computers and Fluids</i> , <b>2009</b> , 38, 1749-1762	2.8	48
37	Progress in the CFD modeling of flow instabilities in anatomical total cavopulmonary connections. <i>Annals of Biomedical Engineering</i> , <b>2007</b> , 35, 1840-56	4.7	46
36	Pulmonary hepatic flow distribution in total cavopulmonary connections: extracardiac versus intracardiac. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2011</b> , 141, 207-14	1.5	45
35	Single-step stereolithography of complex anatomical models for optical flow measurements. <i>Journal of Biomechanical Engineering</i> , <b>2005</b> , 127, 204-7	2.1	43
34	Comparing pre- and post-operative Fontan hemodynamic simulations: implications for the reliability of surgical planning. <i>Annals of Biomedical Engineering</i> , <b>2012</b> , 40, 2639-51	4.7	42

33	Fluid Dynamics in the HeartMate 3: Influence of the Artificial Pulse Feature and Residual Cardiac Pulsation. <i>Artificial Organs</i> , <b>2019</b> , 43, 363-376	2.6	41
32	Blood Pump Design Variations and Their Influence on Hydraulic Performance and Indicators of Hemocompatibility. <i>Annals of Biomedical Engineering</i> , <b>2018</b> , 46, 417-428	4.7	38
31	Visualization of flow structures in Fontan patients using 3-dimensional phase contrast magnetic resonance imaging. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2012</b> , 143, 1108-16	1.5	38
30	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. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2011</b> , 141, 1170-7	1.5	38
29	Hemodynamic performance of stage-2 univentricular reconstruction: Glenn vs. hemi-Fontan templates. <i>Annals of Biomedical Engineering</i> , <b>2009</b> , 37, 50-63	4.7	38
28	Hemodynamic Modeling of Surgically Repaired Coarctation of the Aorta. <i>Cardiovascular Engineering and Technology</i> , <b>2011</b> , 2, 288-295	2.2	34
27	Simulating hemodynamics of the Fontan Y-graft based on patient-specific in vivo connections. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2013</b> , 145, 663-70	1.5	33
26	Rapid adaptation to microgravity in mammalian macrophage cells. <i>Scientific Reports</i> , <b>2017</b> , 7, 43	4.9	32
25	Power loss and right ventricular efficiency in patients after tetralogy of Fallot repair with pulmonary insufficiency: clinical implications. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2012</b> , 143, 1279-85	1.5	32
24	Preliminary clinical experience with a bifurcated Y-graft Fontan procedure--a feasibility study. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2012</b> , 144, 383-9	1.5	31
23	Imaging and patient-specific simulations for the Fontan surgery: current methodologies and clinical applications. <i>Progress in Pediatric Cardiology</i> , <b>2010</b> , 30, 31-44	0.4	30
22	Virtual surgical planning, flow simulation, and 3-dimensional electrospinning of patient-specific grafts to optimize Fontan hemodynamics. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2018</b> , 155, 1734-1742 <sup>29</sup>	1.5	29
21	Hemodynamic energy dissipation in the cardiovascular system: generalized theoretical analysis on disease states. <i>Annals of Biomedical Engineering</i> , <b>2009</b> , 37, 661-73	4.7	27
20	Three-dimensional velocity field reconstruction. <i>Journal of Biomechanical Engineering</i> , <b>2004</b> , 126, 727-35 <sup>2.1</sup>	2.1	21
19	Patient-Specific Surgical Planning, Where Do We Stand? The Example of the Fontan Procedure. <i>Annals of Biomedical Engineering</i> , <b>2016</b> , 44, 174-86	4.7	20
18	Effect of flow pulsatility on modeling the hemodynamics in the total cavopulmonary connection. <i>Journal of Biomechanics</i> , <b>2012</b> , 45, 2376-81	2.9	19
17	Larger aortic reconstruction corresponds to diminished left pulmonary artery size in patients with single-ventricle physiology. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2010</b> , 139, 557-61	1.5	18
16	Hypoxia sensing by hepatic stellate cells leads to VEGF-dependent angiogenesis and may contribute to accelerated liver regeneration. <i>Scientific Reports</i> , <b>2020</b> , 10, 4392	4.9	13

15	Numerical and experimental investigation of pulsatile hemodynamics in the total cavopulmonary connection. <i>Journal of Biomechanics</i> , <b>2013</b> , 46, 373-82	2.9	13
14	Assessment of intracranial dynamics in hydrocephalus: effects of viscoelasticity on the outcome of infusion tests. <i>Journal of Neurosurgery</i> , <b>2013</b> , 119, 1511-9	3.2	12
13	Modified control grid interpolation for the volumetric reconstruction of fluid flows. <i>Experiments in Fluids</i> , <b>2008</b> , 45, 987-997	2.5	12
12	Barrier dysfunction or drainage reduction: differentiating causes of CSF protein increase. <i>Fluids and Barriers of the CNS</i> , <b>2017</b> , 14, 14	7	11
11	Cannulation strategy for aortic arch reconstruction using deep hypothermic circulatory arrest. <i>Annals of Thoracic Surgery</i> , <b>2012</b> , 94, 614-20	2.7	11
10	Influence of Standard Laboratory Procedures on Measures of Erythrocyte Damage. <i>Frontiers in Physiology</i> , <b>2017</b> , 8, 731	4.6	10
9	Rapid Cellular Perception of Gravitational Forces in Human Jurkat T Cells and Transduction into Gene Expression Regulation. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	9
8	Anatomically realistic patient-specific surgical planning of complex congenital heart defects using MRI and CFD. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 202-5		7
7	Advances in cardiovascular fluid mechanics: bench to bedside. <i>Annals of the New York Academy of Sciences</i> , <b>2009</b> , 1161, 1-25	6.5	6
6	Thrombotic Risk of Rotor Speed Modulation Regimes of Contemporary Centrifugal Continuous-flow Left Ventricular Assist Devices. <i>ASAIO Journal</i> , <b>2021</b> , 67, 737-745	3.6	4
5	In Vitro Testing and Comparison of Additively Manufactured Polymer Impellers for the CentriMag Blood Pump. <i>ASAIO Journal</i> , <b>2021</b> , 67, 306-313	3.6	4
4	Pulsatile Hemodynamics of the Fontan Connection: A Tri-Modal Investigation <b>2011</b> ,		1
3	Patient-Specific Surgery Planning for the Fontan Procedure <b>2013</b> , 217-228		1
2	Insights Into the Low Rate of In-Pump Thrombosis With the HeartMate 3: Does the Artificial Pulse Improve Washout?. <i>Frontiers in Cardiovascular Medicine</i> , <b>2022</b> , 9, 775780	5.4	0
1	Advances in Computational Simulations for Interventional Treatments and Surgical Planning <b>2010</b> , 343-373		