Diane A De Zlicourt

List of Publications by Year in Descending Order

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	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	5.4	0
49	Thrombotic Risk of Rotor Speed Modulation Regimes of Contemporary Centrifugal Continuous-flow Left Ventricular Assist Devices. *ASAIO Journal*, **2021**, 67, 737-745	3.6	4
48	In Vitro Testing and Comparison of Additively Manufactured Polymer Impellers for the CentriMag Blood Pump. *ASAIO Journal*, **2021**, 67, 306-313	3.6	4
47	Hypoxia sensing by hepatic stellate cells leads to VEGF-dependent angiogenesis and may contribute to accelerated liver regeneration. *Scientific Reports*, **2020**, 10, 4392	4.9	13
46	Rapid Cellular Perception of Gravitational Forces in Human Jurkat T Cells and Transduction into Gene Expression Regulation. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	9
45	Fluid Dynamics in the HeartMate 3: Influence of the Artificial Pulse Feature and Residual Cardiac Pulsation. *Artificial Organs*, **2019**, 43, 363-376	2.6	41
44	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	1.5	29
43	Blood Pump Design Variations and Their Influence on Hydraulic Performance and Indicators of Hemocompatibility. *Annals of Biomedical Engineering*, **2018**, 46, 417-428	4.7	38
42	Rapid adaptation to microgravity in mammalian macrophage cells. *Scientific Reports*, **2017**, 7, 43	4.9	32
41	Barrier dysfunction or drainage reduction: differentiating causes of CSF protein increase. *Fluids and Barriers of the CNS*, **2017**, 14, 14	7	11
40	Influence of Standard Laboratory Procedures on Measures of Erythrocyte Damage. *Frontiers in Physiology*, **2017**, 8, 731	4.6	10
39	Patient-Specific Surgical Planning, Where Do We Stand? The Example of the Fontan Procedure. *Annals of Biomedical Engineering*, **2016**, 44, 174-86	4.7	20
38	Glymphatic solute transport does not require bulk flow. *Scientific Reports*, **2016**, 6, 38635	4.9	156
37	How astrocyte networks may contribute to cerebral metabolite clearance. *Scientific Reports*, **2015**, 5, 15024	4.9	52
36	Fontan hemodynamics from 100 patient-specific cardiac magnetic resonance studies: a computational fluid dynamics analysis. *Journal of Thoracic and Cardiovascular Surgery*, **2014**, 148, 1481-9	1.5	57
35	Flow induced by ependymal cilia dominates near-wall cerebrospinal fluid dynamics in the lateral ventricles. *Journal of the Royal Society Interface*, **2014**, 11, 20131189	4.1	73
34	Numerical and experimental investigation of pulsatile hemodynamics in the total cavopulmonary connection. *Journal of Biomechanics*, **2013**, 46, 373-82	2.9	13

33	Simulating hemodynamics of the Fontan Y-graft based on patient-specific in vivo connections. *Journal of Thoracic and Cardiovascular Surgery*, **2013**, 145, 663-70	1.5	33
32	Assessment of intracranial dynamics in hydrocephalus: effects of viscoelasticity on the outcome of infusion tests. *Journal of Neurosurgery*, **2013**, 119, 1511-9	3.2	12
31	Patient-Specific Surgery Planning for the Fontan Procedure **2013**, 217-228		1
30	Visualization of flow structures in Fontan patients using 3-dimensional phase contrast magnetic resonance imaging. *Journal of Thoracic and Cardiovascular Surgery*, **2012**, 143, 1108-16	1.5	38
29	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, 1279-85	1.5	32
28	Comparing pre- and post-operative Fontan hemodynamic simulations: implications for the reliability of surgical planning. *Annals of Biomedical Engineering*, **2012**, 40, 2639-51	4.7	42
27	Cannulation strategy for aortic arch reconstruction using deep hypothermic circulatory arrest. *Annals of Thoracic Surgery*, **2012**, 94, 614-20	2.7	11
26	Preliminary clinical experience with a bifurcated Y-graft Fontan procedure--a feasibility study. *Journal of Thoracic and Cardiovascular Surgery*, **2012**, 144, 383-9	1.5	31
25	Effect of flow pulsatility on modeling the hemodynamics in the total cavopulmonary connection. *Journal of Biomechanics*, **2012**, 45, 2376-81	2.9	19
24	Pulmonary hepatic flow distribution in total cavopulmonary connections: extracardiac versus intracardiac. *Journal of Thoracic and Cardiovascular Surgery*, **2011**, 141, 207-14	1.5	45
23	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, 1170-7	1.5	38
22	Hemodynamic Modeling of Surgically Repaired Coarctation of the Aorta. *Cardiovascular Engineering and Technology*, **2011**, 2, 288-295	2.2	34
21	Pulsatile Hemodynamics of the Fontan Connection: A Tri-Modal Investigation **2011**,		1
20	Advances in Computational Simulations for Interventional Treatments and Surgical Planning **2010**, 343-373		
19	Imaging and patient-specific simulations for the Fontan surgery: current methodologies and clinical applications. *Progress in Pediatric Cardiology*, **2010**, 30, 31-44	0.4	30
18	Larger aortic reconstruction corresponds to diminished left pulmonary artery size in patients with single-ventricle physiology. *Journal of Thoracic and Cardiovascular Surgery*, **2010**, 139, 557-61	1.5	18
17	Hemodynamic performance of stage-2 univentricular reconstruction: Glenn vs. hemi-Fontan templates. *Annals of Biomedical Engineering*, **2009**, 37, 50-63	4.7	38
16	Hemodynamic energy dissipation in the cardiovascular system: generalized theoretical analysis on disease states. *Annals of Biomedical Engineering*, **2009**, 37, 661-73	4.7	27

15	Flow simulations in arbitrarily complex cardiovascular anatomies An unstructured Cartesian grid approach. *Computers and Fluids*, **2009**, 38, 1749-1762	2.8	48
14	Advances in cardiovascular fluid mechanics: bench to bedside. *Annals of the New York Academy of Sciences*, **2009**, 1161, 1-25	6.5	6
13	Correction of pulmonary arteriovenous malformation using image-based surgical planning. *JACC: Cardiovascular Imaging*, **2009**, 2, 1024-30	8.4	70
12	Modified control grid interpolation for the volumetric reconstruction of fluid flows. *Experiments in Fluids*, **2008**, 45, 987-997	2.5	12
11	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, 1139-52	3.1	77
10	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		7
9	Progress in the CFD modeling of flow instabilities in anatomical total cavopulmonary connections. *Annals of Biomedical Engineering*, **2007**, 35, 1840-56	4.7	46
8	Introduction of a new optimized total cavopulmonary connection. *Annals of Thoracic Surgery*, **2007**, 83, 2182-90	2.7	85
7	Flow study of an extracardiac connection with persistent left superior vena cava. *Journal of Thoracic and Cardiovascular Surgery*, **2006**, 131, 785-91	1.5	60
6	Single-step stereolithography of complex anatomical models for optical flow measurements. *Journal of Biomechanical Engineering*, **2005**, 127, 204-7	2.1	43
5	In vitro flow analysis of a patient-specific intraatrial total cavopulmonary connection. *Annals of Thoracic Surgery*, **2005**, 79, 2094-102	2.7	59
4	Coupling pediatric ventricle assist devices to the Fontan circulation: simulations with a lumped-parameter model. *ASAIO Journal*, **2005**, 51, 618-28	3.6	61
3	Physics-driven CFD modeling of complex anatomical cardiovascular flows-a TCPC case study. *Annals of Biomedical Engineering*, **2005**, 33, 284-300	4.7	97
2	Total cavopulmonary connection flow with functional left pulmonary artery stenosis: angioplasty and fenestration in vitro. *Circulation*, **2005**, 112, 3264-71	16.7	58
1	Three-dimensional velocity field reconstruction. *Journal of Biomechanical Engineering*, **2004**, 126, 727-35	2.1	21