Stijn Vandenberghe

List of Publications by Year
in descending order

58	1,090	393982	414034
papers	citations	19 h-index	32 g-index

59	59	59	1023
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Development of a Gastight Thoracotomy Model for Investigation of Carbon Dioxide Field-Flooding Efficacy. Cureus, 2022, 14, e21099.	0.2	1
2	Patient tilt improves efficacy of CO2 field-flooding in minimally invasive cardiac surgery. Journal of Cardiothoracic Surgery, 2022, 17, .	0.4	2
3	Direct visualization of carbon dioxide field flooding: Optical and concentration level comparison of diffusor effectiveness. Journal of Thoracic and Cardiovascular Surgery, 2020, 159, 958-968.	0.4	9
4	Reversed Auxiliary Flow to Reduce Embolism Risk During TAVI: A Computational Simulation and Experimental Study. Cardiovascular Engineering and Technology, 2019, 10, 124-135.	0.7	4
5	Experimental Study of Microâ€Scale Taylor Vortices Within a Coâ€Axial Mixedâ€Flow Blood Pump. Artificial Organs, 2016, 40, 1071-1078.	1.0	6
6	Dexrazoxane Shows No Protective Effect in the Acute Phase of Reperfusion during Myocardial Infarction in Pigs. PLoS ONE, 2016, 11, e0168541.	1.1	6
7	â€œThe Balloon Plug Conceptâ€•for Tricuspid Valve Repair Ex Vivo Proof of Concept. Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery, 2015, 10, 27-32.	0.4	0
8	Classification of Unsteady Flow Patterns in a Rotodynamic Blood Pump: Introduction of Non-Dimensional Regime Map. Cardiovascular Engineering and Technology, 2015, 6, 230-241.	0.7	7
9	â€œThe Balloon Plug Conceptâ€•for Tricuspid Valve Repair Ex Vivo Proof of Concept. Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery, 2015, 10, 27-32.	0.4	2
10	Simulation of Dilated Heart Failure with Continuous Flow Circulatory Support. PLoS ONE, 2014, 9, e85234.	1.1	24
11	Numerical Optimal Control of Turbo Dynamic Ventricular Assist Devices. Bioengineering, 2014, 1, 22-46.	1.6	21
12	Effects of Thoratec pulsatile ventricular assist device timing on the abdominal aortic wave intensity pattern. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H1243-H1251.	1.5	4
13	A Physiological Controller for Turbodynamic Ventricular Assist Devices Based on a Measurement of the Left Ventricular Volume. Artificial Organs, 2014, 38, 527-538.	1.0	40
14	Analysis of Pressure Head-Flow Loops of Pulsatile Rotodynamic Blood Pumps. Artificial Organs, 2014, 38, 316-326.	1.0	21
15	A Robust Reference Signal Generator for Synchronized Ventricular Assist Devices. IEEE Transactions on Biomedical Engineering, 2013, 60, 2174-2183.	2.5	20
16	A Novel Interface for Hybrid Mock Circulations to Evaluate Ventricular Assist Devices. IEEE Transactions on Biomedical Engineering, 2013, 60, 507-516.	2.5	68
17	Energy Harvesting from the Beating Heart by a Mass Imbalance Oscillation Generator. Annals of Biomedical Engineering, 2013, 41, 131-141.	1.3	136
18	Control of ventricular unloading using an electrocardiogram-synchronized Thoratec paracorporeal ventricular assist device. Journal of Thoracic and Cardiovascular Surgery, 2013, 146, 710-717.	0.4	28

#	Article	IF	Citations
19	Reply to the Editor. Journal of Thoracic and Cardiovascular Surgery, 2013, 145, 1145-1146.	0.4	0
20	Reliability of lithium dilution cardiac output in anaesthetized sheep. British Journal of Anaesthesia, 2013, 111, 833-839.	1.5	16
21	In Vitro and In Vivo Imaging Characteristics Assessment of Polymeric Coils Compared with Standard Platinum Coils for the Treatment of Intracranial Aneurysms. American Journal of Neuroradiology, 2013, 34, 2177-2183.	1.2	7
22	Asymmetric speed modulation of a rotary blood pump affects ventricular unloading. European Journal of Cardio-thoracic Surgery, 2013, 43, 383-388.	0.6	43
23	A Cardiovascular Mathematical Model of Graded Head-Up Tilt. PLoS ONE, 2013, 8, e77357.	1.1	31
24	Effect of pressure-controlled intermittent coronary sinus occlusion (PICSO) on myocardial ischaemia and reperfusion in a closed-chest porcine model. EuroIntervention, 2013, 9, 398-406.	1.4	15
25	In Vitro Hemodynamic Evaluation of Ventricular Suction Conditions of the EVAHEART Ventricular Assist Pump. International Journal of Artificial Organs, 2012, 35, 263-271.	0.7	4
26	Pulsatile control of rotary blood pumps: Does the modulation waveform matter?. Journal of Thoracic and Cardiovascular Surgery, 2012, 144, 970-977.	0.4	62
27	Ideal site for ventricular anchoring of artificial chordae in mitral regurgitation. Journal of Thoracic and Cardiovascular Surgery, 2012, 143, S78-S81.	0.4	20
28	Biocompatibility Assessment of the First Generation PediaFlow Pediatric Ventricular Assist Device. Artificial Organs, 2011, 35, 9-21.	1.0	19
29	Effect of Pulsatility on the Mathematical Modeling of Rotary Blood Pumps. Artificial Organs, 2011, 35, 825-832.	1.0	21
30	In Vitro Evaluation of Ventricular Cannulation for Rotodynamic Cardiac Assist Devices. Cardiovascular Engineering and Technology, 2011, 2, 203-211.	0.7	10
31	Aortic flow patterns resulting from right axillary artery cannulation. Interactive Cardiovascular and Thoracic Surgery, 2011, 12, 973-977.	0.5	4
32	Validation of Abdominal Aortic Aneurysm Dynamics: A Comparative Analysis of PIV, CFD, and FSI. , 2009, , .		0
33	Transapical off-pump removal of the native aortic valve: A proof-of-concept animal study. Journal of Thoracic and Cardiovascular Surgery, 2009, 138, 468-473.	0.4	12
34	The Importance of dQ/dt on the Flow Field in a Turbodynamic Pump With Pulsatile Flow. Artificial Organs, 2009, 33, 757-762.	1.0	17
35	Pulsatile In Vitro Simulation of the Pediatric Univentricular Circulation for Evaluation of Cardiopulmonary Assist Scenarios. Artificial Organs, 2009, 33, 967-976.	1.0	19
36	In Vitro Testing of a Temporary Catheter-Based Aortic â€œParachuteâ€•Valve. ASAIO Journal, 2008, 54, 574-577.	0.9	6

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37	Towards the Development of a Pediatric Ventricular Assist Device. Cell Transplantation, 2006, 15, 69-74.	1.2	9
38	The PediaFlowâ„¢ Pediatric Ventricular Assist Device. Pediatric Cardiac Surgery Annual, 2006, 9, 92-98.	0.5	18
39	Modeling Ventricular Function during Cardiac Assist: Does Time-Varying Elastance Work?. ASAIO Journal, 2006, 52, 4-8.	0.9	49
40	OPTIMIZATION, VALIDATION, AND RE-OPTIMIZATION OF PEDIAFLOW MAGLEV TURBO-VAD. ASAIO Journal, 2006, 52, 56A.	0.9	0
41	Hemodynamic Modes of Ventricular Assist with a Rotary Blood Pump: Continuous, Pulsatile, and Failure. ASAIO Journal, 2005, 51, 711-718.	0.9	45
42	IN VITRO EVALUATION OF PULSATILE USE OF THE NEW MEDOS DELTASTREAM PUMP. ASAIO Journal, 2005, 51, 43A.	0.9	0
43	PROGRESS WITH PEDIAFLOW MAGLEV PUMP FOR INFANTS AND SMALL CHILDREN: FORM TO FUNCTION. ASAIO Journal, 2005, 51, 45A.	0.9	0
44	Accuracy of 4 different algorithms for the analysis of tomographic radionuclide ventriculography using a physical, dynamic 4-chamber cardiac phantom. Journal of Nuclear Medicine, 2005, 46, 165-71.	2.8	19
45	In vitro assessment of the unloading and perfusion capacities of the PUCA II and the IABP. Perfusion (United Kingdom), 2004, 19, 25-32.	0.5	11
46	The Impact of Pump Speed and Inlet Cannulation Site on Left Ventricular Unloading with a Rotary Blood Pump. Artificial Organs, 2004, 28, 660-667.	1.0	11
47	Model dependence of gated blood pool SPECT ventricular function measurements*1. Journal of Nuclear Cardiology, 2004, 11, 282-292.	1.4	27
48	Accuracy of commercially available processing algorithms for planar radionuclide ventriculography using data for a dynamic left ventricular phantom. Nuclear Medicine Communications, 2004, 25, 1197-1202.	0.5	7
49	Hydraulic Bench Testing of the TruCATHTM/TruCCOMTMContinuous Cardiac Output Monitor. Cardiovascular Engineering (Dordrecht, Netherlands), 2003, 3, 93-102.	1.0	2
50	Unloading Effect of a Rotary Blood Pump Assessed by Mathematical Modeling. Artificial Organs, 2003, 27, 1094-1101.	1.0	38
51	In Vitro Evaluation of the PUCA II Intra-Arterial LVAD. International Journal of Artificial Organs, 2003, 26, 743-752.	0.7	8
52	Validation of gated blood-pool SPECT cardiac measurements tested using a biventricular dynamic physical phantom. Journal of Nuclear Medicine, 2003, 44, 967-72.	2.8	17
53	Omnicarbonâ„¢ 21 mm Aortic Valve Prosthesis: In Vitro Hydrodynamic and Echo-Doppler Study. International Journal of Artificial Organs, 2002, 25, 783-790.	0.7	5
54	Design of a New Pulsatile Bioreactor for Tissue Engineered Aortic Heart Valve Formation. Artificial Organs, 2002, 26, 710-714.	1.0	78

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55	Mock Loop Testing of On-X Prosthetic Mitral Valve with Doppler Echocardiography. Artificial Organs, 2002, 26, 872-878.	1.0	12
56	Effect of Rotary Blood Pump Failure on Left Ventricular Energetics Assessed by Mathematical Modeling. Artificial Organs, 2002, 26, 1032-1039.	1.0	24
57	TESTING OF CARDIAC ASSIST DEVICES IN A NEWLY DESIGNED MOCK LOOP. ASAIO Journal, 2001, 47, 105.	0.9	0
58	Hydrodynamic characterisation of ventricular assist devices. International Journal of Artificial Organs, 2001, 24, 470-7.	0.7	5