

Michael Neidlin

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

349
citations

840776

11
h-index

888059

17
g-index

40
all docs

40
docs citations

40
times ranked

477
citing authors

#	ARTICLE	IF	CITATIONS
1	Ventricular flow dynamics with varying LVAD inflow cannula lengths: In-silico evaluation in a multiscale model. <i>Journal of Biomechanics</i> , 2018, 72, 106-115.	2.1	34
2	Multiscale Regulation of the Intervertebral Disc: Achievements in Experimental, In Silico, and Regenerative Research. <i>International Journal of Molecular Sciences</i> , 2021, 22, 703.	4.1	27
3	Hemodynamic analysis of outflow grafting positions of a ventricular assist device using closed-loop multiscale CFD simulations: Preliminary results. <i>Journal of Biomechanics</i> , 2016, 49, 2718-2725.	2.1	25
4	Implementation of intrinsic lumped parameter modeling into computational fluid dynamics studies of cardiopulmonary bypass. <i>Journal of Biomechanics</i> , 2014, 47, 729-735.	2.1	24
5	The Influence of Rotary Blood Pump Speed Modulation on the Risk of Intraventricular Thrombosis. <i>Artificial Organs</i> , 2018, 42, 943-953.	1.9	24
6	In vitro flow investigations in the aortic arch during cardiopulmonary bypass with stereo-PIV. <i>Journal of Biomechanics</i> , 2015, 48, 2005-2011.	2.1	23
7	Numerical prediction of thrombus risk in an anatomically dilated left ventricle: the effect of inflow cannula designs. <i>BioMedical Engineering OnLine</i> , 2016, 15, 136.	2.7	21
8	Possible Contexts of Use for <i>In Silico</i> Trials Methodologies: A Consensus-Based Review. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 3977-3982.	6.3	21
9	Development of an In Vitro PIV Setup for Preliminary Investigation of the Effects of Aortic Compliance on Flow Patterns and Hemodynamics. <i>Cardiovascular Engineering and Technology</i> , 2017, 8, 368-377.	1.6	16
10	Multi-tissue network analysis for drug prioritization in knee osteoarthritis. <i>Scientific Reports</i> , 2019, 9, 15176.	3.3	13
11	A multiscale 0-D/3-D approach to patient-specific adaptation of a cerebral autoregulation model for computational fluid dynamics studies of cardiopulmonary bypass. <i>Journal of Biomechanics</i> , 2014, 47, 1777-1783.	2.1	12
12	Design Modifications and Computational Fluid Dynamic Analysis of an Outflow Cannula for Cardiopulmonary Bypass. <i>Annals of Biomedical Engineering</i> , 2014, 42, 2048-2057.	2.5	12
13	Cue-Signal-Response Analysis in 3D Chondrocyte Scaffolds with Anabolic Stimuli. <i>Annals of Biomedical Engineering</i> , 2018, 46, 345-353.	2.5	12
14	Understanding the influence of left ventricular assist device inflow cannula alignment and the risk of intraventricular thrombosis. <i>BioMedical Engineering OnLine</i> , 2021, 20, 47.	2.7	12
15	A numerical framework to investigate hemodynamics during endovascular mechanical recanalization in acute stroke. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2016, 32, e02748.	2.1	11
16	Virtual Fitting and Hemodynamic Simulation of the EVAHEART 2 Left Ventricular Assist Device and Double-Cuff Tipless Inflow Cannula. <i>ASAIO Journal</i> , 2019, 65, 698-706.	1.6	11
17	Design of a right ventricular mock circulation loop as a test bench for right ventricular assist devices. <i>Biomedizinische Technik</i> , 2017, 62, 131-137.	0.8	10
18	An Accelerated Thrombosis Model for Computational Fluid Dynamics Simulations in Rotary Blood Pumps. <i>Cardiovascular Engineering and Technology</i> , 2022, 13, 638-649.	1.6	9

#	ARTICLE	IF	CITATIONS
19	Regulatory network-based model to simulate the biochemical regulation of chondrocytes in healthy and osteoarthritic environments. <i>Scientific Reports</i> , 2022, 12, 3856.	3.3	8
20	An ex vivo tissue model of cartilage degradation suggests that cartilage state can be determined from secreted key protein patterns. <i>PLoS ONE</i> , 2019, 14, e0224231.	2.5	7
21	Investigation of hemodynamics during cardiopulmonary bypass: A multiscale multiphysics fluid-structure-interaction study. <i>Medical Engineering and Physics</i> , 2016, 38, 380-390.	1.7	6
22	Intraventricular Flow Simulations in Singular Right Ventricles Reveal Deteriorated Washout and Low Vortex Formation. <i>Cardiovascular Engineering and Technology</i> , 2022, 13, 495-503.	1.6	3
23	Estimation of left ventricular stroke work based on a large cohort of healthy children. <i>Computers in Biology and Medicine</i> , 2020, 123, 103908.	7.0	2
24	Flow control in the middle cerebral artery during thrombectomy: the effect of anatomy, catheter size and tip location. <i>Journal of NeuroInterventional Surgery</i> , 2023, 15, 502-506.	3.3	2
25	A device for high-throughput monitoring of degradation in soft tissue samples. <i>Journal of Biomechanics</i> , 2018, 74, 180-186.	2.1	1
26	A Novel Multiplex Based Platform for Osteoarthritis Drug Candidate Evaluation. <i>Annals of Biomedical Engineering</i> , 2020, 48, 2438-2448.	2.5	1
27	Response to letter to the editor regarding " In vitro flow investigations in the aortic arch during cardiopulmonary bypass with stereo-PIV". <i>Journal of Biomechanics</i> , 2016, 49, 3.	2.1	0
28	Motion Analysis of the Left Ventricle of a Human Heart for Realization in a Cardiovascular Mock-Loop. <i>Mechanisms and Machine Science</i> , 2018, , 17-29.	0.5	0
29	COMBSecretomics: A pragmatic methodological framework for higher-order drug combination analysis using secretomics. <i>PLoS ONE</i> , 2020, 15, e0232989.	2.5	0
30	Tipless transeptal cannula concept combines improved hemodynamic properties and risk-reduced placement: An in silico proof-of-concept. <i>Artificial Organs</i> , 2021, 45, 1024-1035.	1.9	0
31	Multiscale Multiphysic Approaches in Vascular Hemodynamics. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2018, , 67-76.	2.2	0
32	Title is missing!. , 2020, 15, e0232989.		0
33	Title is missing!. , 2020, 15, e0232989.		0
34	Title is missing!. , 2020, 15, e0232989.		0
35	Title is missing!. , 2020, 15, e0232989.		0