

Joseph L Bull

List of Publications by Year in descending order

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72
papers

2,082
citations

218381

26
h-index

253896

43
g-index

76
all docs

76
docs citations

76
times ranked

2002
citing authors

#	ARTICLE	IF	CITATIONS
1	Tear size and location impacts false lumen pressure in an ex vivo model of chronic type B aortic dissection. <i>Journal of Vascular Surgery</i> , 2008, 47, 844-851.	0.6	174
2	Effect of sinusoidal wavy bottom surface on mixed convection heat transfer in a lid-driven cavity. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 1771-1780.	2.5	127
3	Bubble evolution in acoustic droplet vaporization at physiological temperature via ultra-high speed imaging. <i>Soft Matter</i> , 2011, 7, 4009.	1.2	91
4	The application of microbubbles for targeted drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2007, 4, 475-493.	2.4	88
5	Turbulence Significantly Increases Pressure and Fluid Shear Stress in an Aortic Aneurysm Model under Resting and Exercise Flow Conditions. <i>Annals of Vascular Surgery</i> , 2007, 21, 67-74.	0.4	73
6	Dynamics of acoustic droplet vaporization in gas embolotherapy. <i>Applied Physics Letters</i> , 2010, 96, 143702.	1.5	69
7	Microbubble Expansion in a Flexible Tube. <i>Journal of Biomechanical Engineering</i> , 2006, 128, 554-563.	0.6	65
8	Cardiovascular Bubble Dynamics. <i>Critical Reviews in Biomedical Engineering</i> , 2005, 33, 299-346.	0.5	62
9	Direct Numerical Simulations of Micro-Bubble Expansion in Gas Embolotherapy. <i>Journal of Biomechanical Engineering</i> , 2004, 126, 745-759.	0.6	61
10	Reduction of Thrombosis and Bacterial Infection via Controlled Nitric Oxide (NO) Release from S-Nitroso-N-acetylpenicillamine (SNAP) Impregnated CarboSil Intravascular Catheters. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 349-359.	2.6	61
11	Fluid-structure interaction of turbulent pulsatile flow within a flexible wall axisymmetric aortic aneurysm model. <i>European Journal of Mechanics, B/Fluids</i> , 2009, 28, 88-102.	1.2	58
12	Influence of pulsatile blood flow and heating scheme on the temperature distribution during hyperthermia treatment. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 4883-4890.	2.5	57
13	Laminar natural convection heat transfer in a differentially heated cavity with a thin porous fin attached to the hot wall. <i>International Journal of Heat and Mass Transfer</i> , 2015, 87, 59-70.	2.5	55
14	Microfluidic particle sorting utilizing inertial lift force. <i>Biomedical Microdevices</i> , 2011, 13, 97-105.	1.4	53
15	Bubble splitting in bifurcating tubes: a model study of cardiovascular gas emboli transport. <i>Journal of Applied Physiology</i> , 2005, 99, 479-487.	1.2	52
16	In Vivo Microscopy of Targeted Vessel Occlusion Employing Acoustic Droplet Vaporization. <i>Microcirculation</i> , 2012, 19, 501-509.	1.0	52
17	Initial nucleation site formation due to acoustic droplet vaporization. <i>Applied Physics Letters</i> , 2014, 104, 063703.	1.5	51
18	Modeling pulsatile flow in aortic aneurysms: effect of non-Newtonian properties of blood. <i>Biorheology</i> , 2006, 43, 661-79.	1.2	47

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19	Microfluidic model of bubble lodging in microvessel bifurcations. Applied Physics Letters, 2006, 89, 244103.	1.5	41
20	Surfactant spreading on thin viscous films: film thickness evolution and periodic wall stretch. Experiments in Fluids, 2003, 34, 1-15.	1.1	39
21	An ex vivo Study of the Correlation Between Acoustic Emission and Microvascular Damage. Ultrasound in Medicine and Biology, 2009, 35, 1574-1586.	0.7	32
22	Quantitative Lung Ultrasound Comet Measurement: Method and Initial Clinical Results. Blood Purification, 2015, 39, 37-44.	0.9	32
23	An artificial lung reduces pulmonary impedance and improves right ventricular efficiency in pulmonary hypertension. Journal of Thoracic and Cardiovascular Surgery, 2001, 122, 1094-1100.	0.4	29
24	Refinements in Mathematical Models to Predict Aneurysm Growth and Rupture. Annals of the New York Academy of Sciences, 2006, 1085, 110-116.	1.8	29
25	A boundary element model of the transport of a semi-infinite bubble through a microvessel bifurcation. Physics of Fluids, 2010, 22, 61902.	1.6	29
26	Effect of ventilation rate on instilled surfactant distribution in the pulmonary airways of rats. Journal of Applied Physiology, 2004, 97, 45-56.	1.2	27
27	Characterization of Bioeffects on Endothelial Cells under Acoustic Droplet Vaporization. Ultrasound in Medicine and Biology, 2015, 41, 3241-3252.	0.7	27
28	Design of an Artificial Lung Compliance Chamber for Pulmonary Replacement. ASAIO Journal, 2003, 49, 35-40.	0.9	26
29	A Theoretical Model of a Molecular-Motor-Powered Pump. Biomedical Microdevices, 2005, 7, 21-33.	1.4	26
30	Evolution of Acoustically Vaporized Microdroplets in Gas Embolotherapy. Journal of Biomechanical Engineering, 2012, 134, 031010.	0.6	26
31	A bench top experimental model of bubble transport in multiple arteriole bifurcations. International Journal of Heat and Fluid Flow, 2005, 26, 865-872.	1.1	25
32	A prototype of a liquid ventilator using a novel hollow-fiber oxygenator in a rabbit model. Critical Care Medicine, 2004, 32, 2104-2109.	0.4	24
33	Nitric oxide-releasing semi-crystalline thermoplastic polymers: preparation, characterization and application to devise anti-inflammatory and bactericidal implants. Biomaterials Science, 2018, 6, 3189-3201.	2.6	24
34	Transport of Nitric Oxide (NO) in Various Biomedical grade Polyurethanes: Measurements and Modeling Impact on NO Release Properties of Medical Devices. ACS Biomaterials Science and Engineering, 2016, 2, 1483-1492.	2.6	23
35	A boundary element model of microbubble sticking and sliding in the microcirculation. International Journal of Heat and Mass Transfer, 2008, 51, 5700-5711.	2.5	19
36	Effect of Artificial Lung Compliance on Right Ventricular Load. ASAIO Journal, 2005, 51, 769-772.	0.9	18

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37	Pulsatile flow past an oscillating cylinder. <i>Physics of Fluids</i> , 2011, 23, 41903.	1.6	18
38	Experimental evaluation and computational modeling of tissue damage from low-flow push-pull perfusion sampling in vivo. <i>Journal of Neuroscience Methods</i> , 2015, 242, 97-105.	1.3	17
39	Pulsatility role in cylinder flow dynamics at low Reynolds number. <i>Physics of Fluids</i> , 2012, 24, .	1.6	16
40	An investigation of pulsatile flow past two cylinders as a model of blood flow in an artificial lung. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 3191-3200.	2.5	15
41	Microbubble transport through a bifurcating vessel network with pulsatile flow. <i>Biomedical Microdevices</i> , 2012, 14, 131-143.	1.4	15
42	Quantifying lung ultrasound comets with a convolutional neural network: Initial clinical results. <i>Computers in Biology and Medicine</i> , 2019, 107, 39-46.	3.9	14
43	Flow Limitation in Liquid-Filled Lungs: Effects of Liquid Properties. <i>Journal of Biomechanical Engineering</i> , 2005, 127, 630-636.	0.6	13
44	Small-bubble transport and splitting dynamics in a symmetric bifurcation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 1182-1194.	0.9	13
45	Computational Fluid Dynamics Modeling of the Burr Orbital Motion in Rotational Atherectomy with Particle Image Velocimetry Validation. <i>Annals of Biomedical Engineering</i> , 2018, 46, 567-578.	1.3	13
46	Minimally invasive gas embolization using acoustic droplet vaporization in a rodent model of hepatocellular carcinoma. <i>Scientific Reports</i> , 2019, 9, 11040.	1.6	13
47	Numerical Modeling of Coil Compaction in the Treatment of Cerebral Aneurysms Using Porous Media Theory. <i>Journal of Porous Media</i> , 2009, 12, 887-897.	1.0	13
48	Effect of Repeated Induced Airway Collapse During Total Liquid Ventilation. <i>ASAIO Journal</i> , 2007, 53, 549-555.	0.9	12
49	Acoustic limitations on the efficiency of machining by femtosecond laser-induced optical breakdown. <i>Applied Physics Letters</i> , 2007, 91, 023111.	1.5	12
50	Total Liquid Ventilation: Dynamic Airway Pressure and the Development of Expiratory Flow Limitation. <i>ASAIO Journal</i> , 2004, 50, 485-490.	0.9	11
51	Pulsatile Flow Past a Cylinder: An Experimental Model of Flow in an Artificial Lung. <i>ASAIO Journal</i> , 2006, 52, 614-623.	0.9	11
52	Formation of toroidal bubbles from acoustic droplet vaporization. <i>Applied Physics Letters</i> , 2014, 104, 063706.	1.5	10
53	Location of Flow Limitation in Liquid-Filled Rabbit Lungs. <i>ASAIO Journal</i> , 2005, 51, 781-788.	0.9	9
54	Flow and Heat Transfer in Biological Tissues: Application of Porous Media Theory. , 2008, , 237-259.		9

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55	Dynamics of micro-bubble sonication inside a phantom vessel. <i>Applied Physics Letters</i> , 2013, 102, 13702.	1.5	6
56	Design and Testing of a Single-Element Ultrasound Viscoelastography System for Point-of-Care Edema Quantification. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 2209-2219.	0.7	6
57	Expiratory Flow Limitation during Gravitational Drainage of Perfluorocarbons from Liquid-Filled Lungs. <i>ASAIO Journal</i> , 2005, 51, 795-801.	0.9	4
58	Effect of Viscosity on Instilled Perfluorocarbon Distribution in Rabbit Lungs. <i>Journal of Biomechanical Engineering</i> , 2006, 128, 857-861.	0.6	4
59	Effects of Respiratory Rate and Tidal Volume on Gas Exchange in Total Liquid Ventilation. <i>ASAIO Journal</i> , 2009, 55, 373-381.	0.9	4
60	Transport and flow characteristics of an oscillating cylindrical fiber for total artificial lung application. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 1195-1211.	0.9	4
61	Gas Embolization in a Rodent Model of Hepatocellular Carcinoma Using Acoustic Droplet Vaporization. , 2018, 2018, 6048-6051.		4
62	Lipid Shell Retention and Selective Binding Capability Following Repeated Transient Acoustic Microdroplet Vaporization. <i>Langmuir</i> , 2020, 36, 6626-6634.	1.6	4
63	Role of Vessel Microstructure in the Longevity of End-to-Side Grafts. <i>Journal of Biomechanical Engineering</i> , 2020, 142, .	0.6	4
64	Ultrasound-Guided Gas Embolization Using a Single Linear Array Transducer. , 2019, , .		2
65	The feasibility of using compression bioimpedance measurements to quantify peripheral edema. <i>Journal of Electrical Bioimpedance</i> , 2014, 5, 99-109.	0.5	2
66	Combined gas embolization and chemotherapy can result in complete tumor regression in a murine hepatocellular carcinoma model. <i>APL Bioengineering</i> , 2020, 4, 036106.	3.3	1
67	Bubble lodging in bifurcating microvessel networks: a microfluidic model. , 2006, , .		0
68	Optimization of a magnetic linear transducer actuator using computational fluid dynamics. , 2013, , .		0
69	Imaging the Mechanical Properties of Porous Biological Tissue. , 2018, , 831-857.		0
70	A model study of vascular microbubble transport in pulsatile blood flow through bifurcating vessels. <i>FASEB Journal</i> , 2009, 23, 949.12.	0.2	0
71	Endothelial bioeffects from acoustic droplet vaporization for gas embolotherapy. <i>FASEB Journal</i> , 2012, 26, 859.14.	0.2	0
72	Imaging the Mechanical Properties of Porous Biological Tissue. , 2017, , 1-27.		0