

# 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	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
2	Lipid Shell Retention and Selective Binding Capability Following Repeated Transient Acoustic Microdroplet Vaporization. <i>Langmuir</i> , 2020, 36, 6626-6634.	1.6	4
3	Role of Vessel Microstructure in the Longevity of End-to-Side Grafts. <i>Journal of Biomechanical Engineering</i> , 2020, 142, .	0.6	4
4	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
5	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
6	Ultrasound-Guided Gas Embolization Using a Single Linear Array Transducer. , 2019, , .		2
7	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
8	Nitric oxide-releasing semi-crystalline thermoplastic polymers: preparation, characterization and application to devise anti-inflammatory and bactericidal implants. <i>Biomaterials Science</i> , 2018, 6, 3189-3201.	2.6	24
9	Gas Embolization in a Rodent Model of Hepatocellular Carcinoma Using Acoustic Droplet Vaporization. , 2018, 2018, 6048-6051.		4
10	Imaging the Mechanical Properties of Porous Biological Tissue. , 2018, , 831-857.		0
11	Reduction of Thrombosis and Bacterial Infection via Controlled Nitric Oxide (NO) Release from <i>S</i> -Nitroso- <i>N</i> -acetylpenicillamine (SNAP) Impregnated CarboSil Intravascular Catheters. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 349-359.	2.6	61
12	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
13	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
14	Imaging the Mechanical Properties of Porous Biological Tissue. , 2017, , 1-27.		0
15	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
16	Transport of Nitric Oxide (NO) in Various Biomedical grade Polyurethanes: Measurements and Modeling Impact on NO Release Properties of Medical Devices. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1483-1492.	2.6	23
17	Characterization of Bioeffects on Endothelial Cells under Acoustic Droplet Vaporization. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 3241-3252.	0.7	27
18	Quantitative Lung Ultrasound Comet Measurement: Method and Initial Clinical Results. <i>Blood Purification</i> , 2015, 39, 37-44.	0.9	32

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19	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
20	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
21	Formation of toroidal bubbles from acoustic droplet vaporization. <i>Applied Physics Letters</i> , 2014, 104, 063706.	1.5	10
22	Initial nucleation site formation due to acoustic droplet vaporization. <i>Applied Physics Letters</i> , 2014, 104, 063703.	1.5	51
23	The feasibility of using compression bioimpedance measurements to quantify peripheral edema. <i>Journal of Electrical Bioimpedance</i> , 2014, 5, 99-109.	0.5	2
24	Dynamics of micro-bubble sonication inside a phantom vessel. <i>Applied Physics Letters</i> , 2013, 102, 13702.	1.5	6
25	Optimization of a magnetic linear transducer actuator using computational fluid dynamics. , 2013, , .		0
26	Evolution of Acoustically Vaporized Microdroplets in Gas Embolotherapy. <i>Journal of Biomechanical Engineering</i> , 2012, 134, 031010.	0.6	26
27	Pulsatility role in cylinder flow dynamics at low Reynolds number. <i>Physics of Fluids</i> , 2012, 24, .	1.6	16
28	<i>In Vivo</i> Microscopy of Targeted Vessel Occlusion Employing Acoustic Droplet Vaporization. <i>Microcirculation</i> , 2012, 19, 501-509.	1.0	52
29	Microbubble transport through a bifurcating vessel network with pulsatile flow. <i>Biomedical Microdevices</i> , 2012, 14, 131-143.	1.4	15
30	Endothelial bioeffects from acoustic droplet vaporization for gas embolotherapy. <i>FASEB Journal</i> , 2012, 26, 859.14.	0.2	0
31	Bubble evolution in acoustic droplet vaporization at physiological temperature via ultra-high speed imaging. <i>Soft Matter</i> , 2011, 7, 4009.	1.2	91
32	Microfluidic particle sorting utilizing inertial lift force. <i>Biomedical Microdevices</i> , 2011, 13, 97-105.	1.4	53
33	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
34	Pulsatile flow past an oscillating cylinder. <i>Physics of Fluids</i> , 2011, 23, 41903.	1.6	18
35	A boundary element model of the transport of a semi-infinite bubble through a microvessel bifurcation. <i>Physics of Fluids</i> , 2010, 22, 61902.	1.6	29
36	Dynamics of acoustic droplet vaporization in gas embolotherapy. <i>Applied Physics Letters</i> , 2010, 96, 143702.	1.5	69

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37	Effects of Respiratory Rate and Tidal Volume on Gas Exchange in Total Liquid Ventilation. ASAIO Journal, 2009, 55, 373-381.	0.9	4
38	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
39	Fluid-structure interaction of turbulent pulsatile flow within a flexible wall axisymmetric aortic aneurysm model. European Journal of Mechanics, B/Fluids, 2009, 28, 88-102.	1.2	58
40	Numerical Modeling of Coil Compaction in the Treatment of Cerebral Aneurysms Using Porous Media Theory. Journal of Porous Media, 2009, 12, 887-897.	1.0	13
41	A model study of vascular microbubble transport in pulsatile blood flow through bifurcating vessels. FASEB Journal, 2009, 23, 949.12.	0.2	0
42	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
43	Tear size and location impacts false lumen pressure in an ex vivo model of chronic type B aortic dissection. Journal of Vascular Surgery, 2008, 47, 844-851.	0.6	174
44	Flow and Heat Transfer in Biological Tissues: Application of Porous Media Theory. , 2008, , 237-259.		9
45	Effect of Repeated Induced Airway Collapse During Total Liquid Ventilation. ASAIO Journal, 2007, 53, 549-555.	0.9	12
46	The application of microbubbles for targeted drug delivery. Expert Opinion on Drug Delivery, 2007, 4, 475-493.	2.4	88
47	Turbulence Significantly Increases Pressure and Fluid Shear Stress in an Aortic Aneurysm Model under Resting and Exercise Flow Conditions. Annals of Vascular Surgery, 2007, 21, 67-74.	0.4	73
48	Acoustic limitations on the efficiency of machining by femtosecond laser-induced optical breakdown. Applied Physics Letters, 2007, 91, 023111.	1.5	12
49	Effect of sinusoidal wavy bottom surface on mixed convection heat transfer in a lid-driven cavity. International Journal of Heat and Mass Transfer, 2007, 50, 1771-1780.	2.5	127
50	Influence of pulsatile blood flow and heating scheme on the temperature distribution during hyperthermia treatment. International Journal of Heat and Mass Transfer, 2007, 50, 4883-4890.	2.5	57
51	Microfluidic model of bubble lodging in microvessel bifurcations. Applied Physics Letters, 2006, 89, 244103.	1.5	41
52	Bubble lodging in bifurcating microvessel networks: a microfluidic model. , 2006, , .		0
53	Pulsatile Flow Past a Cylinder: An Experimental Model of Flow in an Artificial Lung. ASAIO Journal, 2006, 52, 614-623.	0.9	11
54	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

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55	Effect of Viscosity on Instilled Perfluorocarbon Distribution in Rabbit Lungs. Journal of Biomechanical Engineering, 2006, 128, 857-861.	0.6	4
56	Microbubble Expansion in a Flexible Tube. Journal of Biomechanical Engineering, 2006, 128, 554-563.	0.6	65
57	Modeling pulsatile flow in aortic aneurysms: effect of non-Newtonian properties of blood. Biorheology, 2006, 43, 661-79.	1.2	47
58	Flow Limitation in Liquid-Filled Lungs: Effects of Liquid Properties. Journal of Biomechanical Engineering, 2005, 127, 630-636.	0.6	13
59	Effect of Artificial Lung Compliance on Right Ventricular Load. ASAIO Journal, 2005, 51, 769-772.	0.9	18
60	Expiratory Flow Limitation during Gravitational Drainage of Perfluorocarbons from Liquid-Filled Lungs. ASAIO Journal, 2005, 51, 795-801.	0.9	4
61	Location of Flow Limitation in Liquid-Filled Rabbit Lungs. ASAIO Journal, 2005, 51, 781-788.	0.9	9
62	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
63	A Theoretical Model of a Molecular-Motor-Powered Pump. Biomedical Microdevices, 2005, 7, 21-33.	1.4	26
64	Bubble splitting in bifurcating tubes: a model study of cardiovascular gas emboli transport. Journal of Applied Physiology, 2005, 99, 479-487.	1.2	52
65	Cardiovascular Bubble Dynamics. Critical Reviews in Biomedical Engineering, 2005, 33, 299-346.	0.5	62
66	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
67	Direct Numerical Simulations of Micro-Bubble Expansion in Gas Embolotherapy. Journal of Biomechanical Engineering, 2004, 126, 745-759.	0.6	61
68	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
69	Total Liquid Ventilation: Dynamic Airway Pressure and the Development of Expiratory Flow Limitation. ASAIO Journal, 2004, 50, 485-490.	0.9	11
70	Surfactant spreading on thin viscous films: film thickness evolution and periodic wall stretch. Experiments in Fluids, 2003, 34, 1-15.	1.1	39
71	Design of an Artificial Lung Compliance Chamber for Pulmonary Replacement. ASAIO Journal, 2003, 49, 35-40.	0.9	26
72	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