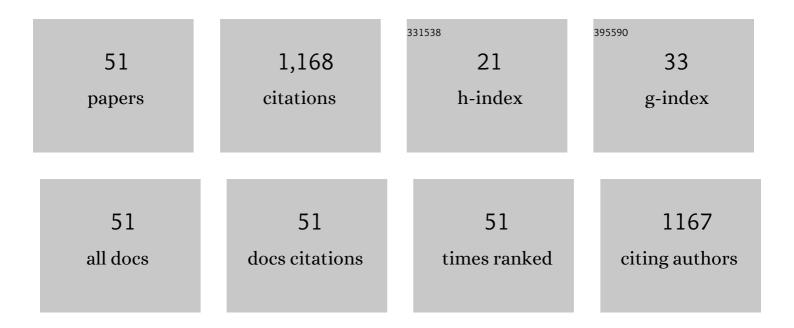
Kelly Burrowes

List of Publications by Year in descending order

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KELLY RUDDOWES

#	Article	IF	CITATIONS
1	Simulating Multi-Scale Pulmonary Vascular Function by Coupling Computational Fluid Dynamics With an Anatomic Network Model. Frontiers in Network Physiology, 2022, 2, .	0.8	3
2	In Silico Ventilation Within the Dose-Volume is Predictive of Lung Function Post-radiation Therapy in Patients with Lung Cancer. Annals of Biomedical Engineering, 2021, 49, 1416-1431.	1.3	2
3	Integrative Computational Models of Lung Structureâ€Function Interactions. , 2021, 11, 1501-1530.		2
4	Mobile Pulmonary Rehabilitation: Feasibility of Delivery by a Mobile Phone-Based Program. Frontiers in Computer Science, 2021, 3, .	1.7	3
5	A computational model of contributors to pulmonary hypertensive disease: impacts of whole lung and focal disease distributions. Pulmonary Circulation, 2021, 11, 1-15.	0.8	4
6	Bridging the gap between respiratory research and health literacy: an interactive web-based platform. BMJ Simulation and Technology Enhanced Learning, 2021, 7, 163-166.	0.7	1
7	A viscoelastic two-dimensional network model of the lung extracellular matrix. Biomechanics and Modeling in Mechanobiology, 2020, 19, 2241-2253.	1.4	9
8	Human lungs are created to breathe clean air: the questionable quantification of vaping safety "95% less harmful". New Zealand Medical Journal, 2020, 133, 100-106.	0.5	2
9	Ventilation/Perfusion Matching: Of Myths, Mice, and Men. Physiology, 2019, 34, 419-429.	1.6	9
10	Lung Computational Models and the Role of the Small Airways in Asthma. American Journal of Respiratory and Critical Care Medicine, 2019, 200, 982-991.	2.5	91
11	Integrated lung tissue mechanics one piece at a time: Computational modeling across the scales of biology. Clinical Biomechanics, 2019, 66, 20-31.	0.5	11
12	In silico modeling of oxygen-enhanced MRI of specific ventilation. Physiological Reports, 2018, 6, e13659.	0.7	8
13	Capturing complexity in pulmonary system modelling. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2017, 231, 355-368.	1.0	17
14	Imageâ€based computational fluid dynamics in the lung: virtual reality or new clinical practice?. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2017, 9, e1392.	6.6	21
15	Cover Image, Volume 9, Issue 6. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2017, 9, e1409.	6.6	Ο
16	A poroelastic model coupled to a fluid network with applications in lung modelling. International Journal for Numerical Methods in Biomedical Engineering, 2016, 32, e02731.	1.0	39
17	Dynamic flow characteristics in normal and asthmatic lungs. International Journal for Numerical Methods in Biomedical Engineering, 2015, 31, .	1.0	26
18	Computational models for patient-specific analysis of pulmonary vascular disease. Drug Discovery Today: Disease Models, 2015, 15, 29-36.	1.2	1

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19	Development and Analysis of Patient-Based Complete Conducting Airways Models. PLoS ONE, 2015, 10, e0144105.	1.1	45
20	Hypoxic Pulmonary Vasoconstriction as a Contributor to Response in Acute Pulmonary Embolism. Annals of Biomedical Engineering, 2014, 42, 1631-1643.	1.3	25
21	Lack of functional information explains the poor performance of â€ [~] clot load scores' at predicting outcome in acute pulmonary embolism. Respiratory Physiology and Neurobiology, 2014, 190, 1-13.	0.7	24
22	Systems Medicine: from molecular features and models to the clinic in COPD. Journal of Translational Medicine, 2014, 12, S4.	1.8	23
23	Computational modeling of the obstructive lung diseases asthma and COPD. Journal of Translational Medicine, 2014, 12, S5.	1.8	44
24	From imaging to functional outcome in pulmonary embolism. Proceedings of SPIE, 2013, , .	0.8	0
25	Multi-scale computational models of the airways to unravel the pathophysiological mechanisms in asthma and chronic obstructive pulmonary disease (AirPROM). Interface Focus, 2013, 3, 20120057.	1.5	40
26	Translational Research: Multi-Scale Models of the Pulmonary Circulation in Health and Disease. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2013, , 259-286.	0.7	0
27	Spatial redistribution of perfusion and gas exchange in patient-specific models of pulmonary embolism. , 2012, , .		6
28	Assessing potential errors of MRI-based measurements of pulmonary blood flow using a detailed network flow model. Journal of Applied Physiology, 2012, 113, 130-141.	1.2	22
29	The interdependent contributions of gravitational and structural features to perfusion distribution in a multiscale model of the pulmonary circulation. Journal of Applied Physiology, 2011, 110, 943-955.	1.2	63
30	The impact of micro-embolism size on haemodynamic changes in the pulmonary micro-circulation. Respiratory Physiology and Neurobiology, 2011, 175, 365-374.	0.7	17
31	Computational Models of the Pulmonary Circulation: Insights and the Move towards Clinically Directed Studies. Pulmonary Circulation, 2011, 1, 224-238.	0.8	37
32	Blood Flow Redistribution and Ventilationâ€Perfusion Mismatch During Embolic Pulmonary Arterial Occlusion. Pulmonary Circulation, 2011, 1, 365-376.	0.8	67
33	Pulmonary embolism: predicting disease severity. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 4255-4277.	1.6	24
34	Computational Modeling of Airway and Pulmonary Vascular Structure and Function: Development of a "Lung Physiome". Critical Reviews in Biomedical Engineering, 2011, 39, 319-336.	0.5	19
35	Modeling of the Pulmonary Vasculature. , 2011, , 91-103.		0
36	Coupling of lung tissue tethering force to fluid dynamics in the pulmonary circulation. International Journal for Numerical Methods in Biomedical Engineering, 2010, 26, 862-875.	1.0	7

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37	Contribution of serial and parallel microperfusion to spatial variability in pulmonary inter- and intra-acinar blood flow. Journal of Applied Physiology, 2010, 108, 1116-1126.	1.2	42
38	Species-Specific Pulmonary Arterial Asymmetry Determines Species Differences in Regional Pulmonary Perfusion. Annals of Biomedical Engineering, 2009, 37, 2497-2509.	1.3	23
39	Relationship between structural changes and hyperpolarized gas magnetic resonance imaging in chronic obstructive pulmonary disease using computational simulations with realistic alveolar geometry. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367. 2347-2369.	1.6	11
40	Modelling pulmonary blood flow. Respiratory Physiology and Neurobiology, 2008, 163, 150-157.	0.7	19
41	Multi-scale Models of the Lung Airways and Vascular System. Advances in Experimental Medicine and Biology, 2008, 605, 190-194.	0.8	12
42	Towards a virtual lung: multi-scale, multi-physics modelling of the pulmonary system. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 3247-3263.	1.6	51
43	The effect of lung orientation on functional imaging of blood flow. , 2007, , .		2
44	Computational predictions of pulmonary blood flow gradients: Gravity versus structure. Respiratory Physiology and Neurobiology, 2006, 154, 515-523.	0.7	58
45	Computational models of structure-function relationships in the pulmonary circulation and their validation. Experimental Physiology, 2006, 91, 285-293.	0.9	20
46	The IUPS Physiome Project: Progress and Plans. , 2006, , 383-393.		3
47	Evaluation of arterial blood flow heterogeneity via an image-based computational model. , 2005, , .		2
48	Anatomically based finite element models of the human pulmonary arterial and venous trees including supernumerary vessels. Journal of Applied Physiology, 2005, 99, 731-738.	1.2	114
49	Evaluation of the effect of postural and gravitational variations on the distribution of pulmonary blood flow via an image-based computational model. , 2005, 2005, 6138-40.		4
50	Investigation of the Relative Effects of Vascular Branching Structure and Gravity on Pulmonary Arterial Blood Flow Heterogeneity via an Image-based Computational Model1. Academic Radiology, 2005, 12, 1464-1474.	1.3	41
51	Modeling RBC and Neutrophil Distribution Through an Anatomically Based Pulmonary Capillary Network. Annals of Biomedical Engineering, 2004, 32, 585-595.	1.3	54