

Jessica M Oakes

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

543
citations

623734

14
h-index

713466

21
g-index

25
all docs

25
docs citations

25
times ranked

675
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative Method for Comparative Assessment of Particle Removal Efficiency of Fabric Masks as Alternatives to Standard Surgical Masks for PPE. <i>Matter</i> , 2020, 3, 950-962.	10.0	101
2	Airflow and Particle Deposition Simulations in Health and Emphysema: From In Vivo to In Silico Animal Experiments. <i>Annals of Biomedical Engineering</i> , 2014, 42, 899-914.	2.5	55
3	Airflow Simulations in Infant, Child, and Adult Pulmonary Conducting Airways. <i>Annals of Biomedical Engineering</i> , 2018, 46, 498-512.	2.5	30
4	Lung-derived HMGB1 is detrimental for vascular remodeling of metabolically imbalanced arterial macrophages. <i>Nature Communications</i> , 2020, 11, 4311.	12.8	29
5	Rat airway morphometry measured from in situ MRI-based geometric models. <i>Journal of Applied Physiology</i> , 2012, 112, 1921-1931.	2.5	28
6	Regional Distribution of Aerosol Deposition in Rat Lungs Using Magnetic Resonance Imaging. <i>Annals of Biomedical Engineering</i> , 2013, 41, 967-978.	2.5	27
7	Distribution of aerosolized particles in healthy and emphysematous rat lungs: Comparison between experimental and numerical studies. <i>Journal of Biomechanics</i> , 2015, 48, 1147-1157.	2.1	26
8	Aerosols in healthy and emphysematous in silico pulmonary acinar rat models. <i>Journal of Biomechanics</i> , 2016, 49, 2213-2220.	2.1	26
9	Flow Field Analysis in Expanding Healthy and Emphysematous Alveolar Models Using Particle Image Velocimetry. <i>Journal of Biomechanical Engineering</i> , 2010, 132, 021008.	1.3	25
10	MRI-based measurements of aerosol deposition in the lung of healthy and elastase-treated rats. <i>Journal of Applied Physiology</i> , 2014, 116, 1561-1568.	2.5	23
11	Regional flow and deposition variability in adult female lungs: A numerical simulation pilot study. <i>Clinical Biomechanics</i> , 2019, 66, 40-49.	1.2	23
12	Aerosol transport throughout inspiration and expiration in the pulmonary airways. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017, 33, e2847.	2.1	21
13	Particle transport and deposition correlation with near-wall flow characteristic under inspiratory airflow in lung airways. <i>Computers in Biology and Medicine</i> , 2020, 120, 103703.	7.0	20
14	Acute neuroradiological, behavioral, and physiological effects of nose-only exposure to vaporized cannabis in C57BL/6 mice. <i>Inhalation Toxicology</i> , 2020, 32, 200-217.	1.6	19
15	A whole lung in silico model to estimate age dependent particle dosimetry. <i>Scientific Reports</i> , 2021, 11, 11180.	3.3	16
16	Structural and functional remodeling of the female <i>Apoe</i> ^{−/−} mouse aorta due to chronic cigarette smoke exposure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H2270-H2282.	3.2	12
17	Simulated Wildfire Smoke Significantly Alters Sperm DNA Methylation Patterns in a Murine Model. <i>Toxics</i> , 2021, 9, 199.	3.7	11
18	Increase in relative deposition of fine particles in the rat lung periphery in the absence of gravity. <i>Journal of Applied Physiology</i> , 2014, 117, 880-886.	2.5	10

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19	Patient-specific modeling of aerosol delivery in healthy and asthmatic adults. <i>Journal of Applied Physiology</i> , 2019, 127, 1720-1732.	2.5	10
20	Effect of moisture content and fuel type on emissions from vegetation using a steady state combustion apparatus. <i>International Journal of Wildland Fire</i> , 2022, 31, 14-23.	2.4	8
21	Patient-Specific Computational Simulations of Hyperpolarized ^3He MRI Ventilation Defects in Healthy and Asthmatic Subjects. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1318-1327.	4.2	5
22	Image-Based Morphometry and Airflow Simulation in Rat Lungs. , 2010, , .		0
23	Response to the Letter to the Editor "Airflow Simulation in Pulmonary Conducting Airways" by M. Monjezi and H. Jamaati. <i>Annals of Biomedical Engineering</i> , 2019, 47, 2355-2355.	2.5	0
24	Multiscale Model of Airflow in Healthy and Emphysema Rat Lungs. , 2012, , .		0