

Wayne Mitzner

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,282
citations

236612

25
h-index

223531

46
g-index

69
all docs

69
docs citations

69
times ranked

3198
citing authors

#	ARTICLE	IF	CITATIONS
1	Telomere dysfunction causes alveolar stem cell failure. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5099-5104.	3.3	263
2	Airway Smooth Muscle. American Journal of Respiratory and Critical Care Medicine, 2004, 169, 787-790.	2.5	215
3	Expression of airway hyperreactivity to acetylcholine as a simple autosomal recessive trait in mice. FASEB Journal, 1988, 2, 2605-2608.	0.2	172
4	A method of endotracheal intubation and pulmonary functional assessment for repeated studies in mice. Journal of Applied Physiology, 1999, 87, 2362-2365.	1.2	146
5	Differential lung mechanics are genetically determined in inbred murine strains. Journal of Applied Physiology, 1999, 86, 1764-1769.	1.2	101
6	Progesterone-Based Therapy Protects Against Influenza by Promoting Lung Repair and Recovery in Females. PLoS Pathogens, 2016, 12, e1005840.	2.1	94
7	NRF2 Activation Promotes Aggressive Lung Cancer and Associates with Poor Clinical Outcomes. Clinical Cancer Research, 2021, 27, 877-888.	3.2	84
8	On defining total lung capacity in the mouse. Journal of Applied Physiology, 2004, 96, 1658-1664.	1.2	82
9	Vascular remodeling in the circulations of the lung. Journal of Applied Physiology, 2004, 97, 1999-2004.	1.2	73
10	Super-achromatic monolithic microprobe for ultrahigh-resolution endoscopic optical coherence tomography at 800nm. Nature Communications, 2017, 8, 1531.	5.8	57
11	Emphysema "A Disease of Small Airways or Lung Parenchyma?". New England Journal of Medicine, 2011, 365, 1637-1639.	13.9	55
12	A mouse model of chronic idiopathic pulmonary fibrosis. Physiological Reports, 2014, 2, e00249.	0.7	55
13	An inflammation-independent contraction mechanophenotype of airway smooth muscle in asthma. Journal of Allergy and Clinical Immunology, 2016, 138, 294-297.e4.	1.5	52
14	Mrgprs on vagal sensory neurons contribute to bronchoconstriction and airway hyper-responsiveness. Nature Neuroscience, 2018, 21, 324-328.	7.1	46
15	Production of amphiregulin and recovery from influenza is greater in males than females. Biology of Sex Differences, 2018, 9, 24.	1.8	40
16	Experimental progressive emphysema in BALB/c mice as a model for chronic alveolar destruction in humans. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 309, L662-L676.	1.3	39
17	Bronchial Artery Angiogenesis Drives Lung Tumor Growth. Cancer Research, 2016, 76, 5962-5969.	0.4	37
18	Recruited monocytes modulate malaria-induced lung injury through CD36-mediated clearance of sequestered infected erythrocytes. Journal of Leukocyte Biology, 2016, 99, 659-671.	1.5	37

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19	Automated full-range pressure-volume curves in mice and rats. <i>Journal of Applied Physiology</i> , 2017, 123, 746-756.	1.2	37
20	Airway response to deep inspiration: role of inflation pressure. <i>Journal of Applied Physiology</i> , 2001, 91, 2574-2578.	1.2	36
21	Application of carbon monoxide diffusing capacity in the mouse lung. <i>Journal of Applied Physiology</i> , 2011, 110, 1455-1459.	1.2	36
22	Oxidized CaMKII promotes asthma through the activation of mast cells. <i>JCI Insight</i> , 2017, 2, e90139.	2.3	33
23	Anisotropic Nature of Mouse Lung Parenchyma. <i>Annals of Biomedical Engineering</i> , 2008, 36, 2111-2120.	1.3	31
24	Assessment of cellular profile and lung function with repeated bronchoalveolar lavage in individual mice. <i>Physiological Genomics</i> , 2000, 2, 29-36.	1.0	30
25	Calpain 9 as a therapeutic target in TGF β ² -induced mesenchymal transition and fibrosis. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	30
26	Measurement of the Pressure-volume Curve in Mouse Lungs. <i>Journal of Visualized Experiments</i> , 2015, , 52376.	0.2	29
27	Potential Mechanism of Hyperresponsive Airways. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2000, 161, 1619-1623.	2.5	27
28	Instillation and Fixation Methods Useful in Mouse Lung Cancer Research. <i>Journal of Visualized Experiments</i> , 2015, , e52964.	0.2	27
29	Immune-mediated inflammation in the pathogenesis of emphysema: insights from mouse models. <i>Cell and Tissue Research</i> , 2017, 367, 591-605.	1.5	27
30	Airway closure with high PEEP in vivo. <i>Journal of Applied Physiology</i> , 2000, 89, 956-960.	1.2	25
31	Vaccinia vaccine-based immunotherapy arrests and reverses established pulmonary fibrosis. <i>JCI Insight</i> , 2016, 1, e83116.	2.3	22
32	Mechanics of the Lung in the 20th Century. , 2011, 1, 2009-2027.		21
33	High fat diet induces airway hyperresponsiveness in mice. <i>Scientific Reports</i> , 2018, 8, 6404.	1.6	21
34	Pregnancy preserves pulmonary function following influenza virus infection in C57BL/6 mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018, 315, L517-L525.	1.3	21
35	Lung Density Changes With Growth and Inflation. <i>Chest</i> , 2015, 148, 995-1002.	0.4	20
36	Effects of tidal volume stretch on airway constriction in vivo. <i>Journal of Applied Physiology</i> , 2001, 91, 1995-1998.	1.2	16

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37	Transgenically-expressed secretoglobin 3A2 accelerates resolution of bleomycin-induced pulmonary fibrosis in mice. <i>BMC Pulmonary Medicine</i> , 2015, 15, 72.	0.8	16
38	Aberrant DNA Methylation of Phosphodiesterase 4D Alters Airway Smooth Muscle Cell Phenotypes. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2016, 54, 241-249.	1.4	14
39	Phenotyping Mouse Pulmonary Function <i>In Vivo</i> with the Lung Diffusing Capacity. <i>Journal of Visualized Experiments</i> , 2015, , e52216.	0.2	13
40	Role of Isocitrate Dehydrogenase 2 on DNA Hydroxymethylation in Human Airway Smooth Muscle Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 63, 36-45.	1.4	12
41	Second harmonic generation imaging of collagen scaffolds within the alveolar ducts of healthy and emphysematous mouse lungs. <i>Histochemistry and Cell Biology</i> , 2021, 155, 279-289.	0.8	11
42	Current Advances in COPD Imaging. <i>Academic Radiology</i> , 2019, 26, 335-343.	1.3	8
43	Multigenerational Epigenetic Regulation of Allergic Diseases: Utilizing an Experimental Dust Mite-Induced Asthma Model. <i>Frontiers in Genetics</i> , 2021, 12, 624561.	1.1	8
44	Caloric restriction prevents the development of airway hyperresponsiveness in mice on a high fat diet. <i>Scientific Reports</i> , 2019, 9, 279.	1.6	7
45	Immune modulation by chronic exposure to waterpipe smoke and immediate-early gene regulation in murine lungs. <i>Tobacco Control</i> , 2020, 29, s80-s89.	1.8	7
46	Effect of an Adenovirus-Vectored Universal Influenza Virus Vaccine on Pulmonary Pathophysiology in a Mouse Model. <i>Journal of Virology</i> , 2021, 95, .	1.5	7
47	Airway compliance measurements in mouse models of respiratory diseases. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021, 321, L204-L212.	1.3	7
48	Visualization and Validation of The Microstructures in The Airway Wall in vivo Using Diffractive Optical Coherence Tomography. <i>Academic Radiology</i> , 2022, 29, 1623-1630.	1.3	7
49	Direct Visualization and Quantitative Imaging of Small Airway Anatomy Using Deep Learning Assisted Diffractive OCT. <i>IEEE Transactions on Biomedical Engineering</i> , 2023, 70, 238-246.	2.5	7
50	Bronchial Thermoplasty in Asthma. <i>Allergology International</i> , 2006, 55, 225-234.	1.4	6
51	Self-organizing pattern of subpleural alveolar ducts. <i>Scientific Reports</i> , 2020, 10, 3185.	1.6	5
52	Metformin Alleviates Airway Hyperresponsiveness in a Mouse Model of Diet-Induced Obesity. <i>Frontiers in Physiology</i> , 2022, 13, 883275.	1.3	4
53	Standards for quantitative assessment of lung structure. <i>Journal of Applied Physiology</i> , 2010, 109, 934-934.	1.2	3
54	Quantitative Histology Seriously Flawed by Lack of Lung Volume Measurement. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018, 58, 273-274.	1.4	2

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55	Relationship between lung architecture and lung function are genetically determined. FASEB Journal, 2007, 21, A1339.	0.2	1
56	Lung Density in Extremely Large Healthy Lungs. Chest, 2016, 149, 291-292.	0.4	0
57	Utilization of oligonucleotide microarray profiles from C57BL/6J (B6) and DBA/2J (D2) mice to discover aging-related genes in the lung. FASEB Journal, 2007, 21, A1352.	0.2	0
58	Gene expression differences that explain strain variations in lung architecture. FASEB Journal, 2007, 21, A1352.	0.2	0
59	Genetic Control of Breathing: Effects of Gender and Lung Mechanics. FASEB Journal, 2007, 21, A556.	0.2	0
60	Variable Effects of Caloric Restriction on Metabolic and Breathing Regulation Between Two Inbred Mouse Strains. FASEB Journal, 2009, 23, .	0.2	0
61	Role of Nrf2 transcription factor in ozone-induced emphysema in mice. FASEB Journal, 2013, 27, 722.7.	0.2	0