

Graeme R Zosky

List of Publications by Year in descending order

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122
papers

3,513
citations

147566
31
h-index

168136
53
g-index

122
all docs

122
docs citations

122
times ranked

4748
citing authors

#	ARTICLE	IF	CITATIONS
1	Vitamin D Deficiency Causes Deficits in Lung Function and Alters Lung Structure. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2011, 183, 1336-1343.	2.5	296
2	Animal models of asthma. <i>Clinical and Experimental Allergy</i> , 2007, 37, 973-988.	1.4	252
3	Accelerated Antigen Sampling and Transport by Airway Mucosal Dendritic Cells following Inhalation of a Bacterial Stimulus. <i>Journal of Immunology</i> , 2006, 177, 5861-5867.	0.4	180
4	Reversal of airway hyperresponsiveness by induction of airway mucosal CD4+CD25+ regulatory T cells. <i>Journal of Experimental Medicine</i> , 2006, 203, 2649-2660.	4.2	175
5	Vitamin D Deficiency at 16 to 20 Weeksâ€™ Gestation Is Associated with Impaired Lung Function and Asthma at 6 Years of Age. <i>Annals of the American Thoracic Society</i> , 2014, 11, 571-577.	1.5	104
6	Maternal vitamin D deficiency alters fetal brain development in the BALB/c mouse. <i>Behavioural Brain Research</i> , 2015, 286, 192-200.	1.2	94
7	Vitamin D in Fetal Development: Findings From a Birth Cohort Study. <i>Pediatrics</i> , 2015, 135, e167-e173.	1.0	93
8	Urban-associated diseases: Candidate diseases, environmental risk factors, and a path forward. <i>Environment International</i> , 2019, 133, 105187.	4.8	83
9	Sexual dimorphism in lung function responses to acute influenza A infection. <i>Influenza and Other Respiratory Viruses</i> , 2011, 5, 334-342.	1.5	65
10	Effects of human rhinovirus on epithelial barrier integrity and function in children with asthma. <i>Clinical and Experimental Allergy</i> , 2018, 48, 513-524.	1.4	63
11	Vitamin D3 Supplementation Reduces Subsequent Brain Injury and Inflammation Associated with Ischemic Stroke. <i>NeuroMolecular Medicine</i> , 2018, 20, 147-159.	1.8	60
12	Suppression of the asthmatic phenotype by ultraviolet Bâ€induced, antigenâ€specific regulatory cells. <i>Clinical and Experimental Allergy</i> , 2007, 37, 1267-1276.	1.4	59
13	Coal workers' pneumoconiosis: an Australian perspective. <i>Medical Journal of Australia</i> , 2016, 204, 414-418.	0.8	58
14	Renin-angiotensin-system, a potential pharmacological candidate, in acute respiratory distress syndrome during mechanical ventilation. <i>Pulmonary Pharmacology and Therapeutics</i> , 2019, 58, 101833.	1.1	58
15	Ovalbuminâ€sensitized mice are good models for airway hyperresponsiveness but not acute physiological responses to allergen inhalation. <i>Clinical and Experimental Allergy</i> , 2008, 38, 829-838.	1.4	57
16	The Effects of <i>In Utero</i> Vitamin D Deficiency on Airway Smooth Muscle Mass and Lung Function. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2015, 53, 664-675.	1.4	55
17	Allergic Airways Disease Develops after an Increase in Allergen Capture and Processing in the Airway Mucosa. <i>Journal of Immunology</i> , 2007, 179, 5748-5759.	0.4	53
18	Quantification of heterogeneity in lung disease with image-based pulmonary function testing. <i>Scientific Reports</i> , 2016, 6, 29438.	1.6	50

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19	Plethysmographic estimation of thoracic gas volume in apneic mice. <i>Journal of Applied Physiology</i> , 2006, 101, 454-459.	1.2	49
20	Early Life Arsenic Exposure and Acute and Long-term Responses to Influenza A Infection in Mice. <i>Environmental Health Perspectives</i> , 2013, 121, 1187-1193.	2.8	46
21	The bimodal quasi-static and dynamic elastance of the murine lung. <i>Journal of Applied Physiology</i> , 2008, 105, 685-692.	1.2	42
22	Vitamin D Deficiency and the Lung: Disease Initiator or Disease Modifier?. <i>Nutrients</i> , 2013, 5, 2880-2900.	1.7	42
23	Vitamin D Deficiency in BALB/c Mouse Pregnancy Increases Placental Transfer of Glucocorticoids. <i>Endocrinology</i> , 2015, 156, 3673-3679.	1.4	42
24	In Utero Exposure to Arsenic Alters Lung Development and Genes Related to Immune and Mucociliary Function in Mice. <i>Environmental Health Perspectives</i> , 2013, 121, 244-250.	2.8	38
25	Identification of vitamin D sensitive pathways during lung development. <i>Respiratory Research</i> , 2016, 17, 47.	1.4	37
26	A cross-sectional survey of environmental health in remote Aboriginal communities in Western Australia. <i>International Journal of Environmental Health Research</i> , 2016, 26, 525-535.	1.3	37
27	Vitamin D deficiency causes airway hyperresponsiveness, increases airway smooth muscle mass, and reduces TGF- β 2 expression in the lungs of female BALB/c mice. <i>Physiological Reports</i> , 2014, 2, e00276.	0.7	36
28	Vitamin D both facilitates and attenuates the cellular response to lipopolysaccharide. <i>Scientific Reports</i> , 2017, 7, 45172.	1.6	36
29	In utero exposure to low dose arsenic via drinking water impairs early life lung mechanics in mice. <i>BMC Pharmacology & Toxicology</i> , 2013, 14, 13.	1.0	34
30	Reversible Control by Vitamin D of Granulocytes and Bacteria in the Lungs of Mice: An Ovalbumin-Induced Model of Allergic Airway Disease. <i>PLoS ONE</i> , 2013, 8, e67823.	1.1	34
31	In vitro assessment of the toxicity of bushfire emissions: A review. <i>Science of the Total Environment</i> , 2017, 603-604, 268-278.	3.9	33
32	Sensitizing and Th2 Adjuvant Activity of Cysteine Protease Allergens. <i>International Archives of Allergy and Immunology</i> , 2012, 158, 347-358.	0.9	32
33	Variability and consistency in lung inflammatory responses to particles with a geogenic origin. <i>Respirology</i> , 2014, 19, 58-66.	1.3	32
34	Early life exposure to coal mine fire smoke emissions and altered lung function in young children. <i>Respirology</i> , 2020, 25, 198-205.	1.3	32
35	The Concentration of Iron in Real-World Geogenic PM10 Is Associated with Increased Inflammation and Deficits in Lung Function in Mice. <i>PLoS ONE</i> , 2014, 9, e90609.	1.1	31
36	The pattern of methacholine responsiveness in mice is dependent on antigen challenge dose. <i>Respiratory Research</i> , 2004, 5, 15.	1.4	30

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37	Hyperresponsiveness to inhaled but not intravenous methacholine during acute respiratory syncytial virus infection in mice. <i>Respiratory Research</i> , 2005, 6, 142.	1.4	30
38	High resolution propagation-based imaging system for <i>in vivo</i> dynamic computed tomography of lungs in small animals. <i>Physics in Medicine and Biology</i> , 2018, 63, 08NT03.	1.6	30
39	In utero cigarette smoke exposure impairs somatic and lung growth in BALB/c mice. <i>European Respiratory Journal</i> , 2011, 38, 932-938.	3.1	28
40	Outdoor particulate matter exposure and upper respiratory tract infections in children and adolescents: A systematic review and meta-analysis. <i>Environmental Research</i> , 2022, 210, 112969.	3.7	28
41	Visualisation of Multiple Tight Junctional Complexes in Human Airway Epithelial Cells. <i>Biological Procedures Online</i> , 2018, 20, 3.	1.4	27
42	Effect of human rhinovirus infection on airway epithelium tight junction protein disassembly and transepithelial permeability. <i>Experimental Lung Research</i> , 2016, 42, 380-395.	0.5	26
43	Assessment of airway response distribution and paradoxical airway dilation in mice during methacholine challenge. <i>Journal of Applied Physiology</i> , 2017, 122, 503-510.	1.2	26
44	Linking lung function and inflammatory responses in ventilator-induced lung injury. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2011, 300, L112-L120.	1.3	25
45	Rhinovirus Exacerbates House-Dust-Mite Induced Lung Disease in Adult Mice. <i>PLoS ONE</i> , 2014, 9, e92163.	1.1	25
46	The Link between Regional Tidal Stretch and Lung Injury during Mechanical Ventilation. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019, 60, 569-577.	1.4	24
47	Protective mechanical ventilation does not exacerbate lung function impairment or lung inflammation following influenza A infection. <i>Journal of Applied Physiology</i> , 2009, 107, 1472-1478.	1.2	23
48	Airway hyperresponsiveness is associated with activated CD4 ⁺ T cells in the airways. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2009, 297, L373-L379.	1.3	23
49	Geogenic PM10 exposure exacerbates responses to influenza infection. <i>Science of the Total Environment</i> , 2015, 533, 275-282.	3.9	23
50	Downregulation of IgE antibody and allergic responses in the lung by epidermal biolistic microparticle delivery. <i>Journal of Allergy and Clinical Immunology</i> , 2006, 117, 275-282.	1.5	22
51	Accumulation mode particles and LPS exposure induce TLR-4 dependent and independent inflammatory responses in the lung. <i>Respiratory Research</i> , 2018, 19, 15.	1.4	22
52	Respiratory surveillance for coal mine dust and artificial stone exposed workers in Australia and New Zealand: A position statement from the Thoracic Society of Australia and New Zealand*. <i>Respirology</i> , 2020, 25, 1193-1202.	1.3	22
53	Independent and combined effects of airway remodelling and allergy on airway responsiveness. <i>Clinical Science</i> , 2018, 132, 327-338.	1.8	20
54	The parasympathetic nervous system: its role during torpor in the fat-tailed dunnart (<i>Sminthopsis</i>) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50</i> <i>Physiology</i> , 2002, 172, 677-684.	0.7	19

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55	Acute Influenza A infection induces bronchial hyper-responsiveness in mice. <i>Respiratory Physiology and Neurobiology</i> , 2008, 162, 190-196.	0.7	19
56	UV inhibits allergic airways disease in mice by reducing effector CD4 ⁺ T cells. <i>Clinical and Experimental Allergy</i> , 2010, 40, 772-785.	1.4	18
57	Physiological and inflammatory responses in an anthropomorphically relevant model of acute diesel exhaust particle exposure are sex and dose-dependent. <i>Inhalation Toxicology</i> , 2011, 23, 906-917.	0.8	18
58	The pro-inflammatory effects of particulate matter on epithelial cells are associated with elemental composition. <i>Chemosphere</i> , 2018, 202, 530-537.	4.2	18
59	Effects of chemical composition on the lung cell response to coal particles: Implications for coal workers' pneumoconiosis. <i>Respirology</i> , 2022, 27, 447-454.	1.3	18
60	The parasympathetic nervous system and its influence on heart rate in torpid western pygmy possums, <i>Cercartetus concinnus</i> (Marsupialia: Burramyidae). <i>Zoology</i> , 2003, 106, 143-150.	0.6	16
61	Persistent and Compartmentalised Disruption of Dendritic Cell Subpopulations in the Lung following Influenza A Virus Infection. <i>PLoS ONE</i> , 2014, 9, e111520.	1.1	15
62	Respiratory and atopic conditions in children two to four years after the 2014 Hazelwood coalmine fire. <i>Medical Journal of Australia</i> , 2020, 213, 269-275.	0.8	15
63	Exposure to Stress and Air Pollution from Bushfires during Pregnancy: Could Epigenetic Changes Explain Effects on the Offspring?. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 7465.	1.2	15
64	Parental knowledge, beliefs and management of childhood fever in Australia: A nationwide survey. <i>Journal of Clinical Pharmacy and Therapeutics</i> , 2019, 44, 768-774.	0.7	14
65	“Breathing Fire”™: Impact of Prolonged Bushfire Smoke Exposure in People with Severe Asthma. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 7419.	1.2	14
66	High tidal volume ventilation in infant mice. <i>Respiratory Physiology and Neurobiology</i> , 2008, 162, 93-99.	0.7	13
67	A pathogenic role for the integrin CD103 in experimental allergic airways disease. <i>Physiological Reports</i> , 2016, 4, e13021.	0.7	13
68	Maternal exposure to particulate matter alters early post-natal lung function and immune cell development. <i>Environmental Research</i> , 2018, 164, 625-635.	3.7	13
69	The Inflammatory Effect of Iron Oxide and Silica Particles on Lung Epithelial Cells. <i>Lung</i> , 2019, 197, 199-207.	1.4	13
70	Exposure to air pollution during the first 1000 days of life and subsequent health service and medication usage in children. <i>Environmental Pollution</i> , 2020, 256, 113340.	3.7	13
71	No association between pyrite content and lung cell responses to coal particles. <i>Scientific Reports</i> , 2021, 11, 8193.	1.6	13
72	Lung volume recruitment maneuvers and respiratory system mechanics in mechanically ventilated mice. <i>Respiratory Physiology and Neurobiology</i> , 2009, 169, 243-251.	0.7	12

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73	The mechanism of deep inspiration-induced bronchoprotection: evidence from a mouse model. <i>European Respiratory Journal</i> , 2012, 40, 982-989.	3.1	12
74	Lung development. <i>Photochemical and Photobiological Sciences</i> , 2017, 16, 339-346.	1.6	12
75	Cohort Profile: The Hazelwood Health Study Latrobe Early Life Follow-Up (ELF) Study. <i>International Journal of Epidemiology</i> , 2021, 49, 1779-1780.	0.9	11
76	Acute diesel exhaust particle exposure increases viral titre and inflammation associated with existing influenza infection, but does not exacerbate deficits in lung function. <i>Influenza and Other Respiratory Viruses</i> , 2013, 7, 701-709.	1.5	10
77	Identification of genes differentially regulated by vitamin D deficiency that alter lung pathophysiology and inflammation in allergic airways disease. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 311, L653-L663.	1.3	10
78	Novel analysis of 4DCT imaging quantifies progressive increases in anatomic dead space during mechanical ventilation in mice. <i>Journal of Applied Physiology</i> , 2017, 123, 578-584.	1.2	10
79	<i>Bacillus licheniformis</i> in geogenic dust induces inflammation in respiratory epithelium. <i>Environmental Research</i> , 2018, 164, 248-254.	3.7	10
80	Absence of cholinergic airway tone in normal BALB/c mice. <i>Respiratory Physiology and Neurobiology</i> , 2008, 161, 223-229.	0.7	9
81	Impact of supplemental oxygen in mechanically ventilated adult and infant mice. <i>Respiratory Physiology and Neurobiology</i> , 2009, 165, 61-66.	0.7	9
82	Interaction between regional lung volumes and ventilator-induced lung injury in the normal and endotoxemic lung. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 318, L494-L499.	1.3	9
83	Paracoxib Alleviates Ventilator-Induced Lung Injury Through Functional Modulation of Lung-Recruited CD11b/ly6Chi Monocytes. <i>Shock</i> , 2021, 55, 236-243.	1.0	9
84	Lack of long-term effects of respiratory syncytial virus infection on airway function in mice. <i>Respiratory Physiology and Neurobiology</i> , 2007, 156, 345-352.	0.7	8
85	Diet-induced vitamin D deficiency has no effect on acute post-stroke outcomes in young male mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 1968-1978.	2.4	8
86	Long-term impacts of prenatal and infant exposure to fine particulate matter on wheezing and asthma. <i>Environmental Epidemiology</i> , 2019, 3, e042.	1.4	8
87	Inorganic particulate matter modulates non-typeable <i>Haemophilus influenzae</i> growth: a link between chronic bacterial infection and geogenic particles. <i>Environmental Geochemistry and Health</i> , 2020, 42, 2137-2145.	1.8	8
88	Roof cavity dust as an exposure proxy for extreme air pollution events. <i>Chemosphere</i> , 2020, 244, 125537.	4.2	8
89	No role for neutrophil elastase in influenza-induced cellular recruitment, cytokine production or airway hyperresponsiveness in mice. <i>Respiratory Physiology and Neurobiology</i> , 2010, 173, 164-170.	0.7	7
90	Imaging lung tissue oscillations using high-speed X-ray velocimetry. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 324-330.	1.0	7

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91	The Impact of Sex and 25(OH)D Deficiency on Metabolic Function in Mice. <i>Nutrients</i> , 2017, 9, 985.	1.7	7
92	Work-related asthma: A position paper from the Thoracic Society of Australia and New Zealand and the National Asthma Council Australia. <i>Respirology</i> , 2020, 25, 1183-1192.	1.3	7
93	Genotypically defined β -lactamase-negative ampicillin-resistant isolates of non-typable <i>Haemophilus influenzae</i> are associated with increased invasion of bronchial epithelial cells in vitro. <i>Journal of Medical Microbiology</i> , 2014, 63, 1400-1403.	0.7	6
94	Emergency department presentations of febrile children to an Australian public hospital. <i>Journal of Paediatrics and Child Health</i> , 2018, 54, 1308-1313.	0.4	6
95	The proteomic response is linked to regional lung volumes in ventilator-induced lung injury. <i>Journal of Applied Physiology</i> , 2020, 129, 837-845.	1.2	6
96	Cow Dung Biomass Smoke Exposure Increases Adherence of Respiratory Pathogen Nontypeable <i>Haemophilus influenzae</i> to Human Bronchial Epithelial Cells. <i>Exposure and Health</i> , 2020, 12, 883-895.	2.8	6
97	Principles for setting air quality guidelines to protect human health in Australia. <i>Medical Journal of Australia</i> , 2021, 214, 254.	0.8	6
98	The respiratory health effects of geogenic (earth derived) PM ₁₀ . <i>Inhalation Toxicology</i> , 2017, 29, 342-355.	0.8	5
99	Optical coherence tomography-based contact indentation for diaphragm mechanics in a mouse model of transforming growth factor alpha induced lung disease. <i>Scientific Reports</i> , 2017, 7, 1517.	1.6	5
100	The Contribution of Geogenic Particulate Matter to Lung Disease in Indigenous Children. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 2636.	1.2	5
101	Quantification of muco-obstructive lung disease variability in mice via laboratory X-ray velocimetry. <i>Scientific Reports</i> , 2020, 10, 10859.	1.6	5
102	Adverse effects of prenatal exposure to residential dust on post-natal brain development. <i>Environmental Research</i> , 2021, 198, 110489.	3.7	5
103	Previous Influenza Infection Exacerbates Allergen Specific Response and Impairs Airway Barrier Integrity in Pre-Sensitized Mice. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8790.	1.8	5
104	Down Under in the Coal Mines. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016, 194, 772-773.	2.5	4
105	A cost-effective technique for generating preservable biomass smoke extract and measuring its effect on cell receptor expression in human bronchial epithelial cells. <i>Biology Methods and Protocols</i> , 2018, 3, bpy010.	1.0	4
106	Pregnancy protects against the pro-inflammatory respiratory responses induced by particulate matter exposure. <i>Chemosphere</i> , 2019, 225, 796-802.	4.2	4
107	Mouse Models of Asthma. <i>Allergy and Clinical Immunology International</i> , 2006, 18, 76-79.	0.3	4
108	House Dust Mite Induced Lung Inflammation Does Not Alter Circulating Vitamin D Levels. <i>PLoS ONE</i> , 2014, 9, e112589.	1.1	4

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109	The cardiac innervation of a marsupial heterotherm, the fat-tailed dunnart (<i>Sminthopsis</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 507 Physiology, 2003, 173, 293-300.	0.7	3
110	Factors influencing the assessment of lung function in mice with influenza-induced lung disease. Influenza and Other Respiratory Viruses, 2013, 7, 889-894.	1.5	3
111	Aging of the Normal Lung. , 2015, , 185-204.		3
112	The association between regional transcriptome profiles and lung volumes in response to mechanical ventilation and lung injury. Respiratory Research, 2022, 23, 35.	1.4	3
113	Commentaries on Viewpoint: Standards for quantitative assessment of lung structure. Journal of Applied Physiology, 2010, 109, 935-936.	1.2	2
114	The independent effects of vitamin D deficiency and house dust mite exposure on lung function are sex-specific. Scientific Reports, 2017, 7, 15198.	1.6	2
115	Associations between respiratory and vascular function in early childhood. Respiriology, 2021, 26, 1060-1066.	1.3	2
116	Emerging issues in the Pacific Basin. Reviews on Environmental Health, 2011, 26, 39-44.	1.1	1
117	Reply: Seasonality and Total 25-Hydroxyvitamin D Levels as Sources of Potential Misclassification of Vitamin D Deficiency. Annals of the American Thoracic Society, 2014, 11, 1337-1338.	1.5	1
118	In utero exposure to diesel exhaust particles, but not silica, alters post-natal immune development and function. Chemosphere, 2021, 268, 129314.	4.2	1
119	Dust exposure impacts <i>Haemophilus influenzae</i> attachment and invasion of human airway epithelial cells. , 2016, , .		1
120	Iron Oxide Particles Alter Bacterial Uptake and the LPS-Induced Inflammatory Response in Macrophages. International Journal of Environmental Research and Public Health, 2021, 18, 146.	1.2	1
121	Cardiac autonomic innervation of the western pygmy possum (<i>Cercartetus concinnus</i>) and golden bandicoot (<i>Isodon auratus</i>). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2017, 187, 203-211.	0.7	0
122	Protein levels, air pollution and vitamin D deficiency: links with allergy. ERJ Open Research, 2021, 7, 00237-2021.	1.1	0