

Lu Wang

List of Publications by Year in descending order

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52
papers

1,474
citations

516215

16
h-index

315357

38
g-index

52
all docs

52
docs citations

52
times ranked

841
citing authors

#	ARTICLE	IF	CITATIONS
1	Airway smooth muscle dynamics: a common pathway of airway obstruction in asthma. <i>European Respiratory Journal</i> , 2007, 29, 834-860.	3.1	344
2	Effects of length oscillation on the subsequent force development in swine tracheal smooth muscle. <i>Journal of Applied Physiology</i> , 2000, 88, 2246-2250.	1.2	144
3	Selected Contribution: Effect of chronic passive length change on airway smooth muscle length-tension relationship. <i>Journal of Applied Physiology</i> , 2001, 90, 734-740.	1.2	108
4	Myosin thick filament lability induced by mechanical strain in airway smooth muscle. <i>Journal of Applied Physiology</i> , 2001, 90, 1811-1816.	1.2	104
5	On the terminology for describing the length-force relationship and its changes in airway smooth muscle. <i>Journal of Applied Physiology</i> , 2004, 97, 2029-2034.	1.2	81
6	Structure-function correlation in airway smooth muscle adapted to different lengths. <i>American Journal of Physiology - Cell Physiology</i> , 2003, 285, C384-C390.	2.1	74
7	Airway narrowing and internal structural constraints. <i>Journal of Applied Physiology</i> , 2000, 88, 527-533.	1.2	54
8	Adaptation to chronic length change in explanted airway smooth muscle. <i>Journal of Applied Physiology</i> , 2003, 95, 448-453.	1.2	43
9	Deep inspiration and airway smooth muscle adaptation to length change. <i>Respiratory Physiology and Neurobiology</i> , 2003, 137, 169-178.	0.7	39
10	Force maintenance and myosin filament assembly regulated by Rho-kinase in airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 308, L1-L10.	1.3	39
11	Mechanical properties of the tracheal mucosal membrane in the rabbit. I. Steady-state stiffness as a function of age. <i>Journal of Applied Physiology</i> , 2000, 88, 1014-1021.	1.2	36
12	Mechanical Strain Inhibits Airway Smooth Muscle Gene Transcription via Protein Kinase C Signaling. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2004, 31, 54-61.	1.4	35
13	Length oscillation induces force potentiation in infant guinea pig airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2005, 289, L909-L915.	1.3	31
14	Changes in force-velocity properties of trachealis due to oscillatory strains. <i>Journal of Applied Physiology</i> , 2002, 92, 1865-1872.	1.2	28
15	Myosin filaments in smooth muscle cells do not have a constant length. <i>Journal of Physiology</i> , 2013, 591, 5867-5878.	1.3	28
16	The Functional Consequences of Structural Changes in the Airways: Implications for Airway Hyperresponsiveness in Asthma. <i>Chest</i> , 2003, 123, 356S-a-362.	0.4	21
17	Ontogenesis of myosin light chain kinase mRNA and protein content in guinea pig tracheal smooth muscle. <i>Pediatric Pulmonology</i> , 2004, 38, 456-464.	1.0	16
18	Three paradigms of airway smooth muscle hyperresponsiveness in young guinea pigs This article is one of a selection of papers published in the Special Issue on Recent Advances in Asthma Research.. <i>Canadian Journal of Physiology and Pharmacology</i> , 2007, 85, 715-726.	0.7	16

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19	Upregulation of smooth muscle Rho-kinase protein expression in human asthma. <i>European Respiratory Journal</i> , 2020, 55, 1901785.	3.1	16
20	Mechanical properties of the tracheal mucosal membrane in the rabbit. II. Morphometric analysis. <i>Journal of Applied Physiology</i> , 2000, 88, 1022-1028.	1.2	15
21	The Huxley crossbridge model as the basic mechanism for airway smooth muscle contraction. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2019, 317, L235-L246.	1.3	15
22	The Functional Consequences of Structural Changes in the Airways. <i>Chest</i> , 2003, 123, 356S-362S.	0.4	14
23	Rho-kinase mediated cytoskeletal stiffness in skinned smooth muscle. <i>Journal of Applied Physiology</i> , 2013, 115, 1540-1552.	1.2	14
24	Smooth muscle function and myosin polymerization. <i>Journal of Cell Science</i> , 2017, 130, 2468-2480.	1.2	13
25	Ontogenesis of myosin light chain phosphorylation in guinea pig tracheal smooth muscle. <i>Pediatric Pulmonology</i> , 2005, 39, 108-116.	1.0	12
26	Bronchodilatory effect of deep inspiration in freshly isolated sheep lungs. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017, 312, L178-L185.	1.3	12
27	Filament evanescence of myosin II and smooth muscle function. <i>Journal of General Physiology</i> , 2021, 153, .	0.9	12
28	Maturation of guinea pig tracheal strip stiffness. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2005, 289, L902-L908.	1.3	11
29	Biphasic force response to iso-velocity stretch in airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 309, L653-L661.	1.3	10
30	Bronchial vasodilatory response to ionic and nonionic contrast media. <i>Journal of Applied Physiology</i> , 1997, 82, 841-845.	1.2	9
31	Airway smooth muscle relaxation is impaired in mice lacking the p47phox subunit of NAD(P)H oxidase. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2008, 294, L139-L148.	1.3	8
32	Mechanopharmacology of Rho-kinase antagonism in airway smooth muscle and potential new therapy for asthma. <i>Pharmacological Research</i> , 2020, 159, 104995.	3.1	8
33	NO does not mediate inhibitory neural responses in sheep airway and bronchial vascular smooth muscle. <i>Journal of Applied Physiology</i> , 1998, 84, 809-814.	1.2	7
34	Reduced spontaneous relaxation in immature guinea pig airway smooth muscle is associated with increased prostanoid release. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2008, 294, L964-L973.	1.3	7
35	p116 ^{Rip} promotes myosin phosphatase activity in airway smooth muscle cells. <i>Journal of Cellular Physiology</i> , 2020, 235, 114-127.	2.0	7
36	Lung resistance and elastance are different in ex vivo sheep lungs ventilated by positive and negative pressures. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2022, 322, L673-L682.	1.3	7

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37	Airway diameter at different transpulmonary pressures in ex vivo sheep lungs: implications for deep inspiration-induced bronchodilation and bronchoprotection. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021, 321, L663-L674.	1.3	6
38	Fast Fourier transform analysis of dynamic data: sine wave stress - strain analysis of biological tissue. <i>Physics in Medicine and Biology</i> , 1997, 42, 537-547.	1.6	5
39	Mechanisms of airway smooth muscle relaxation during maturation. <i>Canadian Journal of Physiology and Pharmacology</i> , 2005, 83, 833-840.	0.7	5
40	Mucosal Folding and Airway Smooth Muscle Shortening. <i>Chest</i> , 1995, 107, 88S.	0.4	4
41	A Brief History of Airway Smooth Muscle's Role in Airway Hyperresponsiveness. <i>Journal of Allergy</i> , 2012, 2012, 1-8.	0.7	4
42	Mechanopharmacology and Synergistic Relaxation of Airway Smooth Muscle. <i>Journal of Engineering and Science in Medical Diagnostics and Therapy</i> , 2019, 2, 0110041-110047.	0.3	3
43	A maturational model for the study of airway smooth muscle adaptation to mechanical oscillation. <i>Canadian Journal of Physiology and Pharmacology</i> , 2005, 83, 817-824.	0.7	2
44	Ovalbumin sensitization of guinea pig at birth prevents the ontogenetic decrease in airway smooth muscle responsiveness. <i>Physiological Reports</i> , 2014, 2, e12241.	0.7	2
45	Mediators of human ureteral smooth muscle contraction—a role for erythropoietin, tamsulosin and Gli effectors. <i>Translational Andrology and Urology</i> , 2021, 10, 2953-2961.	0.6	2
46	Airway and parenchymal tissue resistance and elastance in ex vivo sheep lungs: effects of bronchochallenge and deep inspiration. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2022, 322, L882-L889.	1.3	2
47	The importance of complete tissue homogenization for accurate stoichiometric measurement of myosin light chain phosphorylation in airway smooth muscle. <i>Canadian Journal of Physiology and Pharmacology</i> , 2015, 93, 155-162.	0.7	1
48	A Guinea Pig Model of Early Stages of Asthma with Hyperresponsive Tracheal Smooth Muscle but No Airway Inflammation.., 2009, , .		0
49	Effects Of IgE And IL-4 On Gene Expression In Proliferative And Contractile Human Airway Smooth Muscle Cells. , 2010, , .		0
50	CD4+ Cells In Guinea Pig Airways During Ontogenesis And After Neonatal Allergen Sensitization. , 2010, , .		0
51	Neonatal Allergen Sensitization Prevents The Ontogenetic Increase Of Vimentin And Tissue Stiffness In Guinea Pig Airways. , 2010, , .		0
52	Is Rho-Kinase Expression Up-Regulated in Asthmatic Airway Smooth Muscle?., 2019, , .		0