Lu-Yuan Lee

List of Publications by Year in Descending Order

120 papers	3,651 citations	33 h-index	57 g-index
123 ext. papers	3,964 ext. citations	3.8 avg, IF	5.44 L-index

#	Paper	IF	Citations
120	Neural Control of Airway Smooth Muscle **2022**, 164-173		
119	Mechanisms Involved in the Stimulatory and Inhibitory Effects of 5-Hydroxytryptamine on Vagal Mechanosensitive Afferents in Rat Lung.. *Frontiers in Physiology*, **2022**, 13, 813096	4.6	
118	TRP channels in airway sensory nerves. *Neuroscience Letters*, **2021**, 748, 135719	3.3	4
117	A Distinct Difference Between Air and Mucosal Temperatures in Human Respiratory Tract. *Frontiers in Medicine*, **2021**, 8, 650637	4.9	2
116	Mechanisms underlying the stimulatory effect of inhaled sulfur dioxide on vagal bronchopulmonary C-fibres. *Journal of Physiology*, **2020**, 598, 1093-1108	3.9	2
115	Stimulatory Effect of 5-Hydroxytryptamine (5-HT) on Rat Capsaicin-Sensitive Lung Vagal Sensory Neurons via Activation of 5-HT Receptors. *Frontiers in Physiology*, **2019**, 10, 642	4.6	9
114	Airway hypersensitivity induced by eosinophil granule-derived cationic proteins. *Pulmonary Pharmacology and Therapeutics*, **2019**, 57, 101804	3.5	6
113	Cough responses to inhaled irritants are enhanced by eosinophil major basic protein in awake mice. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2019**, 317, R93-R97	3.2	5
112	KCNQ/M-channels regulate mouse vagal bronchopulmonary C-fiber excitability and cough sensitivity. *JCI Insight*, **2019**, 4,	9.9	13
111	Cough response to sulfur dioxide inhalation challenge is enhanced by tumor necrosis factor alpha: a primary role of vagal bronchopulmonary C-fibers. *FASEB Journal*, **2018**, 32, 913.2	0.9	1
110	Cough and expiration reflexes elicited by inhaled irritant gases are intensified in ovalbumin-sensitized mice. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2017**, 312, R718-R726	3.2	12
109	Immediate and delayed potentiating effects of tumor necrosis factor-□on TRPV1 sensitivity of rat vagal pulmonary sensory neurons. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2017**, 313, L293-L304	5.8	10
108	Sustained sensitizing effects of tumor necrosis factor alpha on sensory nerves in lung and airways. *Pulmonary Pharmacology and Therapeutics*, **2017**, 47, 29-37	3.5	7
107	Hypersensitivity of Vagal Pulmonary Afferents Induced by Tumor Necrosis Factor Alpha in Mice. *Frontiers in Physiology*, **2017**, 8, 411	4.6	12
106	From the Cover: Prenatal Nicotinic Exposure Attenuates Respiratory Chemoreflexes Associated With Downregulation of Tyrosine Hydroxylase and Neurokinin 1 Receptor in Rat Pup Carotid Body. *Toxicological Sciences*, **2016**, 153, 103-11	4.4	5
105	Prenatal nicotinic exposure upregulates pulmonary C-fiber NK1R expression to prolong pulmonary C-fiber-mediated apneic response. *Toxicology and Applied Pharmacology*, **2016**, 290, 107-15	4.6	8
104	Airway extravasation induced by increasing airway temperature in ovalbumin-sensitized rats. *Respiratory Physiology and Neurobiology*, **2015**, 212-214, 46-9	2.8	1

103	Role of calcium ions in the positive interaction between TRPA1 and TRPV1 channels in bronchopulmonary sensory neurons. *Journal of Applied Physiology*, **2015**, 118, 1533-43	3.7	21
102	Hemorrhagic hypotension-induced hypersensitivity of vagal pulmonary C-fibers to chemical stimulation and lung inflation in anesthetized rats. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2015**, 308, R605-13	3.2	1
101	Interaction between TRPA1 and TRPV1: Synergy on pulmonary sensory nerves. *Pulmonary Pharmacology and Therapeutics*, **2015**, 35, 87-93	3.5	30
100	A synergistic effect of simultaneous TRPA1 and TRPV1 activations on vagal pulmonary C-fiber afferents. *Journal of Applied Physiology*, **2015**, 118, 273-81	3.7	22
99	Hypersensitivity of vagal pulmonary C-fibers induced by increasing airway temperature in ovalbumin-sensitized rats. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2015**, 309, R1285-91	3.2	2
98	Positive Interaction between TRPA1 and TRPV1 Channels in Rat Vagal Bronchopulmonary Sensory Neurons. *FASEB Journal*, **2015**, 29, 860.1	0.9	
97	Sensory nerves in lung and airways. *Comprehensive Physiology*, **2014**, 4, 287-324	7.7	88
96	Breathing hot humid air induces airway irritation and cough in patients with allergic rhinitis. *Respiratory Physiology and Neurobiology*, **2014**, 198, 13-9	2.8	9
95	Summary of papers presented at the 2012 seventh international cough symposium. *Cough*, **2013**, 9, 13		3
94	Acid-sensing by airway afferent nerves. *Pulmonary Pharmacology and Therapeutics*, **2013**, 26, 491-7	3.5	17
93	Bronchoconstriction induced by increasing airway temperature in ovalbumin-sensitized rats: role of tachykinins. *Journal of Applied Physiology*, **2013**, 115, 688-96	3.7	9
92	Pulmonary chemoreflex responses are potentiated by tumor necrosis factor-alpha in mice. *Journal of Applied Physiology*, **2013**, 114, 1536-43	3.7	13
91	Hydrogen sulfide induces hypersensitivity of rat capsaicin-sensitive lung vagal neurons: role of TRPA1 receptors. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2013**, 305, R769-79	3.2	17
90	Hypersensitivity of bronchopulmonary C-fibers induced by an increase in airway temperature in ovalbumin (Ova)-sensitized Brown Norway rats.. *FASEB Journal*, **2013**, 27, 930.19	0.9	2
89	Hypersensitivity of pulmonary C fiber induced by arterial hypotension in anesthetized rat. *FASEB Journal*, **2013**, 27, 930.20	0.9	
88	House dust mite potentiates capsaicin-evoked Ca2+ transients in mouse pulmonary sensory neurons via activation of protease-activated receptor-2. *Experimental Physiology*, **2012**, 97, 534-43	2.4	10
87	Bronchoconstriction triggered by breathing hot humid air in patients with asthma: role of cholinergic reflex. *American Journal of Respiratory and Critical Care Medicine*, **2012**, 185, 1190-6	10.2	76
86	Protease-Activated Receptor 2 **2012**, 37-61		

85	Acute potentiating effects of tumor necrosis factor-[(TNF)]on the responses of rat vagal pulmonary sensory neurons to capsaicin challenge. *FASEB Journal*, **2012**, 26, 892.3	0.9	
84	Airway irritation and cough evoked by acid: from human to ion channel. *Current Opinion in Pharmacology*, **2011**, 11, 238-47	5.1	14
83	TRPV1 as a cough sensor and its temperature-sensitive properties. *Pulmonary Pharmacology and Therapeutics*, **2011**, 24, 280-5	3.5	32
82	Airway inflammation and hypersensitivity induced by chronic smoking. *Respiratory Physiology and Neurobiology*, **2011**, 178, 395-405	2.8	23
81	Stimulatory Effect of 5-hydroxytryptamine (5-HT) on Rat Capsaicin-sensitive Vagal Pulmonary Sensory Neurons via Activation of 5-HT3 Receptors. *FASEB Journal*, **2011**, 25, 1077.17	0.9	
80	Bronchoconstriction induced by hyperventilation with humidified warm air in ovalbumin-sensitized Brown Norway rats. *FASEB Journal*, **2011**, 25, 864.15	0.9	
79	TRPA1 ion channels: a gateway to airway irritation and reflex responses induced by inhaled oxidants. *Journal of Physiology*, **2010**, 588, 747-8	3.9	6
78	Acid-Sensing Ion Channels and Pain. *Pharmaceuticals*, **2010**, 3, 1411-1425	5.2	19
77	Calcium transient evoked by TRPV1 activators is enhanced by tumor necrosis factor-{alpha} in rat pulmonary sensory neurons. *American Journal of Physiology - Lung Cellular and Molecular Physiology* , **2010**, 299, L483-92	5.8	40
76	Mechanisms of dyspnea. *Chest*, **2010**, 138, 1196-201	5.3	116
75	Blockade of airway sensory nerves and dyspnea in humans. *Pulmonary Pharmacology and Therapeutics*, **2010**, 23, 279-82	3.5	20
74	Regulation of acid signaling in rat pulmonary sensory neurons by protease-activated receptor-2. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2010**, 298, L454-61	5.8	14
73	Effect of smoking on cough reflex sensitivity: basic and preclinical studies. *Lung*, **2010**, 188 Suppl 1, S23-7	2.9	17
72	Pulmonary Chemoreflex Responses Are Potentiated by Chronic Treatment of Tumor Necrosis Factor Alpha (TNF)in Mice. *FASEB Journal*, **2010**, 24, 799.5	0.9	
71	Bronchoconstriction induced by hyperventilation with humidified hot air: role of TRPV1-expressing airway afferents. *Journal of Applied Physiology*, **2009**, 106, 1917-24	3.7	19
70	Mechanisms of eosinophil major basic protein-induced hyperexcitability of vagal pulmonary chemosensitive neurons. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2009**, 296, L453-61	5.8	27
69	Effect of protease-activated receptor 2 activation on single TRPV1 channel activities in rat vagal pulmonary sensory neurons. *Experimental Physiology*, **2009**, 94, 928-36	2.4	19
68	Role of TRPV1 in inflammation-induced airway hypersensitivity. *Current Opinion in Pharmacology*, **2009**, 9, 243-9	5.1	94

67	Tumor necrosis factor alpha (TNF) potentiates pulmonary chemoreflex responses in anesthetized rats. *FASEB Journal*, **2009**, 23, 1010.14	0.9	1
66	Regulation of acid signaling by PAR2 in rat vagal pulmonary sensory nerves. *FASEB Journal*, **2009**, 23, 1009.10	0.9	1
65	Calcium Transient Evoked by Capsaicin is Enhanced by Tumor Necrosis Factor Alpha (TNF) in Pulmonary Sensory Neurons. *FASEB Journal*, **2009**, 23, LB158	0.9	
64	Altered expression of TRPV1 and sensitivity to capsaicin in pulmonary myelinated afferents following chronic airway inflammation in the rat. *Journal of Physiology*, **2008**, 586, 5771-86	3.9	93
63	Effects of airway anesthesia on dyspnea and ventilatory response to intravenous injection of adenosine in healthy human subjects. *Pulmonary Pharmacology and Therapeutics*, **2008**, 21, 208-13	3.5	13
62	Expression of neuronal nicotinic acetylcholine receptors in rat vagal pulmonary sensory neurons. *Respiratory Physiology and Neurobiology*, **2008**, 161, 87-91	2.8	19
61	Sensitization of isolated rat vagal pulmonary sensory neurons by eosinophil-derived cationic proteins. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2008**, 294, L544-52	5.8	32
60	Effect of increasing temperature on TRPV1-mediated responses in isolated rat pulmonary sensory neurons. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2008**, 294, L563-71	5.8	23
59	Lack of potentiating effect of increasing temperature on responses to chemical activators in vagal sensory neurons isolated from TRPV1-null mice. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2008**, 295, L897-904	5.8	11
58	Sensitizing effects of chronic exposure and acute inhalation of ovalbumin aerosol on pulmonary C fibers in rats. *Journal of Applied Physiology*, **2008**, 105, 128-38	3.7	21
57	Expression of neuronal nicotinic acetylcholine receptors in rat vagal pulmonary sensory neurons. *FASEB Journal*, **2008**, 22, 937.23	0.9	
56	A lack of potentiating effect of increasing temperature on the responses to chemical activators in vagal sensory neurons isolated from TRPV1-null mice. *FASEB Journal*, **2008**, 22, 1172.13	0.9	
55	Sensitivity to capsaicin is induced in pulmonary rapidly adapting receptors (RARs) by ovalbumin (Ova)-sensitization in Brown-Norway rats. *FASEB Journal*, **2008**, 22, 175-175	0.9	
54	Calcium transient evoked by nicotine in isolated rat vagal pulmonary sensory neurons. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2007**, 292, L54-61	5.8	28
53	Epinephrine enhances the sensitivity of rat vagal chemosensitive neurons: role of beta3-adrenoceptor. *Journal of Applied Physiology*, **2007**, 102, 1545-55	3.7	17
52	Airway irritation and cough evoked by inhaled cigarette smoke: role of neuronal nicotinic acetylcholine receptors. *Pulmonary Pharmacology and Therapeutics*, **2007**, 20, 355-64	3.5	56
51	Prostaglandin E2 enhances the sensitizing effect of hyperthermia on pulmonary C-fibers in rats. *Respiratory Physiology and Neurobiology*, **2007**, 156, 241-9	2.8	5
50	Role of TRPV receptors in respiratory diseases. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2007**, 1772, 915-27	6.9	99

49	Excitability of Pulmonary C fibers is elevated by ovalbumin sensitization in Brown-Norway rats. *FASEB Journal*, **2007**, 21, A959	0.9	
48	Sensitization of isolated rat vagal pulmonary sensory neurons by human eosinophil granule-derived cationic proteins. *FASEB Journal*, **2007**, 21, A920	0.9	1
47	Characterization of acid signaling in rat vagal pulmonary sensory neurons. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2006**, 291, L58-65	5.8	63
46	Thermal sensitivity of isolated vagal pulmonary sensory neurons: role of transient receptor potential vanilloid receptors. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2006**, 291, R541-50	3.2	58
45	Hypersensitivity of pulmonary chemoreflex induced by poly-L-lysine: role of cationic charge. *Respiratory Physiology and Neurobiology*, **2006**, 151, 31-43	2.8	4
44	The pulmonary effects of intravenous adenosine in asthmatic subjects. *Respiratory Research*, **2006**, 7, 139	7.3	27
43	Plasticity of peripheral mechanisms of cough. *Respiratory Physiology and Neurobiology*, **2006**, 152, 298-312	2.18	29
42	Hypersensitivity of pulmonary chemosensitive neurons induced by activation of protease-activated receptor-2 in rats. *Journal of Physiology*, **2006**, 574, 867-76	3.9	22
41	Intravenous adenosine and dyspnea in humans. *Journal of Applied Physiology*, **2005**, 98, 180-5	3.7	71
40	Prostaglandin E2 potentiates a TTX-resistant sodium current in rat capsaicin-sensitive vagal pulmonary sensory neurones. *Journal of Physiology*, **2005**, 564, 437-50	3.9	57
39	Hyperthermia increases sensitivity of pulmonary C-fibre afferents in rats. *Journal of Physiology*, **2005**, 565, 295-308	3.9	28
38	Stimulatory effect of CO2 on vagal bronchopulmonary C-fiber afferents during airway inflammation. *Journal of Applied Physiology*, **2005**, 99, 1704-11	3.7	18
37	Ovalbumin sensitization alters the ventilatory responses to chemical challenges in guinea pigs. *Journal of Applied Physiology*, **2005**, 99, 1782-8	3.7	9
36	2-aminoethoxydiphenyl borate stimulates pulmonary C neurons via the activation of TRPV channels. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2005**, 288, L932-41	5.8	33
35	Sensitization of pulmonary chemosensitive neurons by bombesin-like peptides in rats. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2005**, 289, L1104-12	5.8	6
34	Bronchopulmonary Vagal Afferent Nerves. *Frontiers in Neuroscience*, **2005**, 279-313		2
33	2-aminoethoxydiphenyl borate is a common activator of TRPV1, TRPV2, and TRPV3. *Journal of Biological Chemistry*, **2004**, 279, 35741-8	5.4	378
32	Mechanisms of chronic cough. *Pulmonary Pharmacology and Therapeutics*, **2004**, 17, 463-4	3.5	10

31	Activation of dopamine D2-like receptors attenuates pulmonary C-fiber hypersensitivity in rats. *American Journal of Respiratory and Critical Care Medicine*, **2003**, 167, 1096-101	10.2	5
30	Ca2+ transient evoked by chemical stimulation is enhanced by PGE2 in vagal sensory neurons: role of cAMP/PKA signaling pathway. *Journal of Neurophysiology*, **2003**, 89, 1985-93	3.2	61
29	Acute hypoxia prolongs the apnea induced by right atrial injection of capsaicin. *Journal of Applied Physiology*, **2003**, 94, 1446-54	3.7	26
28	Functional morphology and physiological properties of bronchopulmonary C-fiber afferents. *The Anatomical Record*, **2003**, 270, 17-24		48
27	Mechanisms of bronchopulmonary C-fiber hypersensitivity induced by cationic proteins. *Pulmonary Pharmacology and Therapeutics*, **2003**, 16, 15-22	3.5	10
26	Hypersensitivity of pulmonary C fibers induced by adenosine in anesthetized rats. *Journal of Applied Physiology*, **2003**, 95, 1315-24; discussion 1314	3.7	32
25	Alveolar hypercapnia augments pulmonary C-fiber responses to chemical stimulants: role of hydrogen ion. *Journal of Applied Physiology*, **2002**, 93, 181-8	3.7	22
24	Stimulation of pulmonary vagal C-fibres by anandamide in anaesthetized rats: role of vanilloid type 1 receptors. *Journal of Physiology*, **2002**, 539, 947-55	3.9	46
23	PGE(2) sensitizes cultured pulmonary vagal sensory neurons to chemical and electrical stimuli. *Journal of Applied Physiology*, **2002**, 93, 1419-28	3.7	90
22	Hypersensitivity of bronchopulmonary C-fibers induced by airway mucosal inflammation: cellular mechanisms. *Pulmonary Pharmacology and Therapeutics*, **2002**, 15, 199-204	3.5	54
21	Summary: peripheral pharmacology of cough. *Pulmonary Pharmacology and Therapeutics*, **2002**, 15, 217-9	3.5	2
20	Comparison of capsaicin-evoked calcium transients between rat nodose and jugular ganglion neurons. *Autonomic Neuroscience: Basic and Clinical*, **2002**, 97, 83-8	2.4	13
19	Chronic smoking enhances tachykinin synthesis and airway responsiveness in guinea pigs. *American Journal of Respiratory Cell and Molecular Biology*, **2001**, 25, 299-305	5.7	57
18	Afferent properties and reflex functions of bronchopulmonary C-fibers. *Respiration Physiology*, **2001**, 125, 47-65		280
17	Effects of human eosinophil granule-derived cationic proteins on C-fiber afferents in the rat lung. *Journal of Applied Physiology*, **2001**, 91, 1318-26	3.7	37
16	Prostaglandin E(2) enhances chemical and mechanical sensitivities of pulmonary C fibers in the rat. *American Journal of Respiratory and Critical Care Medicine*, **2000**, 162, 528-33	10.2	101
15	Airway hyperresponsiveness to cigarette smoke in ovalbumin-sensitized guinea pigs. *American Journal of Respiratory and Critical Care Medicine*, **2000**, 161, 73-80	10.2	48
14	Airway hyperresponsiveness induced by chronic exposure to cigarette smoke in guinea pigs: role of tachykinins. *Journal of Applied Physiology*, **1999**, 87, 1621-8	3.7	42

13	Activation of pulmonary C fibres by adenosine in anaesthetized rats: role of adenosine A1 receptors. *Journal of Physiology*, **1998**, 508 (Pt 1), 109-18	3.9	76
12	A dose-response relationship between exposure to cockroach allergens and induction of sensitization in an experimental asthma in Hartley guinea pigs. *Journal of Allergy and Clinical Immunology*, **1998**, 101, 653-9	11.5	19
11	Role of pulmonary C fibers in adenosine-induced respiratory inhibition in anesthetized rats. *Journal of Applied Physiology*, **1998**, 84, 417-24	3.7	36
10	Ozone enhances excitabilities of pulmonary C fibers to chemical and mechanical stimuli in anesthetized rats. *Journal of Applied Physiology*, **1998**, 85, 1509-15	3.7	52
9	Role of tachykinins in ozone-induced airway hyperresponsiveness to cigarette smoke in guinea pigs. *Journal of Applied Physiology*, **1997**, 83, 958-65	3.7	23
8	Cigarette smoke-induced bronchoconstriction: causative agents and role of thromboxane receptors. *Journal of Applied Physiology*, **1996**, 81, 2053-9	3.7	19
7	Pulmonary chemoreflexes elicited by intravenous injection of lactic acid in anesthetized rats. *Journal of Applied Physiology*, **1996**, 81, 2349-57	3.7	41
6	Mechanism of atrial natriuretic peptide release with increased inspiratory resistance. *Translational Research*, **1996**, 128, 322-8		41
5	Cigarette smoke-induced bronchoconstriction and release of tachykinins in guinea pig lungs. *Respiration Physiology*, **1995**, 99, 173-81		33
4	Postjunctional inhibitory effect of the NK2 receptor antagonist, SR 48968, on sensory NANC bronchoconstriction in the guinea-pig. *British Journal of Pharmacology*, **1993**, 109, 765-73	8.6	24
3	Histamine enhances vagal pulmonary C-fiber responses to capsaicin and lung inflation. *Respiration Physiology*, **1993**, 93, 83-96		59
2	Inhibitory effect of gas phase cigarette smoke on breathing: role of hydroxyl radical. *Respiration Physiology*, **1990**, 82, 227-38		19
1	Central ventilatory responses to O2 and CO2 at three levels of carotid chemoreceptor stimulation. *Respiration Physiology*, **1975**, 25, 319-33		53