Stephen J Lewis

List of Publications by Year
in descending order

98 papers	1,688 citations	279487 23 h-index	377514 34 g-index
99 all docs	99 docs citations	99 times ranked	1281 citing authors

#	Article	IF	Citations
1	Network-based prediction of drugâ€“target interactions using an arbitrary-order proximity embedded deep forest. Bioinformatics, 2020, 36, 2805-2812.	1.8	101
2	Hemodynamic Effects of <scp>l</scp> - and <scp>d</scp> - S -Nitrosocysteine in the Rat. Circulation Research, 1996, 79, 256-262.	2.0	85
3	Photostimulation of Phox2b Medullary Neurons Activates Cardiorespiratory Function in Conscious Rats. American Journal of Respiratory and Critical Care Medicine, 2010, 182, 1184-1194.	2.5	80
4	Actions of S-nitrosocysteine in the nucleus tractus solitarii are unrelated to release of nitric oxide. Brain Research, 1997, 746, 98-104.	1.1	63
5	Use-Dependent Loss of Acetylcholine- and Bradykinin-Mediated Vasodilation After Nitric Oxide Synthase Inhibition. Hypertension, 1996, 28, 354-360.	1.3	58
6	The peripheral nociceptive actions of intravenously administered 5-HT in the rat requires dual activation of both 5-HT2 and 5-HT3 receptor subtypes. Brain Research, 1991, 561, 61-68.	1.1	48
7	Essential role of hemoglobin beta-93-cysteine in posthypoxia facilitation of breathing in conscious mice. Journal of Applied Physiology, 2014, 116, 1290-1299.	1.2	45
8	Artificial intelligence framework identifies candidate targets for drug repurposing in Alzheimerâ€™s disease. Alzheimer's Research and Therapy, 2022, 14, 7.	3.0	42
9	Visual processing of facial affect. NeuroReport, 2003, 14, 1841-1845.	0.6	41
10	Nitrotyrosine attenuates the hemodynamic effects of adrenoceptor agonists in vivo: relevance to the pathophysiology of peroxynitrite. European Journal of Pharmacology, 1996, 310, 155-161.	1.7	40
11	Augmentation of CFTR maturation byS-nitrosoglutathione reductase. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 310, L263-L270.	1.3	38
12	Bilateral carotid sinus nerve transection exacerbates morphine-induced respiratory depression. European Journal of Pharmacology, 2018, 834, 17-29.	1.7	35
13	Use-Dependent Loss of Active Sympathetic Neurogenic Vasodilation After Nitric Oxide Synthase Inhibition in Conscious Rats. Hypertension, 1996, 28, 347-353.	1.3	35
14	Pancreatic nerve electrostimulation inhibits recent-onset autoimmune diabetes. Nature Biotechnology, 2019, 37, 1446-1451.	9.4	34
15	Role of central and peripheral opiate receptors in the effects of fentanyl on analgesia, ventilation and arterial blood-gas chemistry in conscious rats. Respiratory Physiology and Neurobiology, 2014, 191, 95-105.	0.7	33
16	Advances in D-Amino Acids in Neurological Research. International Journal of Molecular Sciences, 2020, 21, 7325.	1.8	33
17	Î²-Adrenoceptor Dysfunction After Inhibition of NO Synthesis. Hypertension, 2000, 36, 376-382.	1.3	31
18	Ventilatory responses during and following exposure to a hypoxic challenge in conscious mice deficient or null in S-nitrosoglutathione reductase. Respiratory Physiology and Neurobiology, 2013, 185, 571-581.	0.7	30

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19	Hypoxia-induced ventilatory responses in conscious mice: Gender differences in ventilatory roll-off and facilitation. Respiratory Physiology and Neurobiology, 2013, 185, 497-505.	0.7	30
20	Differentiation of L- and D-S-Nitrosothiol Recognition Sites In Vivo. Journal of Cardiovascular Pharmacology, 2005, 46, 660-671.	0.8	28
21	Phenotype of asthmatics with increased airway S-nitrosoglutathione reductase activity. European Respiratory Journal, 2015, 45, 87-97.	3.1	26
22	Medial prefrontal cortex acetylcholine injection-induced hypotension: the role of hindlimb vasodilation. Journal of the Autonomic Nervous System, 2000, 79, 1-7.	1.9	25
23	S-nitrosothiols increases cystic fibrosis transmembrane regulator expression and maturation in the cell surface. Biochemical and Biophysical Research Communications, 2014, 443, 1257-1262.	1.0	25
24	Hemodynamic actions of systemically injected pituitary adenylate cyclase activating polypeptide-27 in the rat. European Journal of Pharmacology, 1999, 365, 205-215.	1.7	24
25	Blockade of voltage-sensitive Ca2+-channels markedly diminishes nitric oxide- but not l-S-nitrosocysteine- or endothelium-dependent vasodilation in vivo. European Journal of Pharmacology, 2000, 408, 289-298.	1.7	24
26	Enhanced non-eupneic breathing following hypoxic, hypercapnic or hypoxicâ€“hypercapnic gas challenges in conscious mice. Respiratory Physiology and Neurobiology, 2014, 204, 147-159.	0.7	24
27	Potential role of nitration and oxidation reactions in the effects of peroxynitrite on the function of Î²-adrenoceptor sub-types in the rat. European Journal of Pharmacology, 2005, 518, 187-194.	1.7	23
28	l-Cysteine ethyl ester reverses the deleterious effects of morphine on, arterial bloodâ€“gas chemistry in tracheotomized rats. Respiratory Physiology and Neurobiology, 2013, 189, 136-143.	0.7	23
29	Co-activation of Î¼- and Î´-opioid receptors elicits tolerance to morphine-induced ventilatory depression via generation of peroxynitrite. Respiratory Physiology and Neurobiology, 2013, 186, 255-264.	0.7	23
30	Hypoxia-Induced Changes in Protein S-Nitrosylation in Female Mouse Brainstem. American Journal of Respiratory Cell and Molecular Biology, 2015, 52, 37-45.	1.4	23
31	Decreased heart rate and enhanced sinus arrhythmia during interictal sleep demonstrate autonomic imbalance in generalized epilepsy. Journal of Neurophysiology, 2016, 115, 1988-1999.	0.9	23
32	Morphine has latent deleterious effects on the ventilatory responses to a hypoxic challenge*. Open Journal of Molecular and Integrative Physiology, 2013, 03, 166-180.	0.6	22
33	Role of voltage-sensitive calcium-channels in nitric oxide-mediated vasodilation in Spontaneously Hypertensive rats. European Journal of Pharmacology, 2005, 528, 144-149.	1.7	20
34	Peroxynitrite Elicits Dysfunction of Stereoselective S-Nitrosocysteine Recognition Sites. Journal of Cardiovascular Pharmacology, 2005, 46, 637-645.	0.8	20
35	Voltage-gated potassium channel proteins and stereoselective S-nitroso-l-cysteine signaling. JCI Insight, 2020, 5, .	2.3	20
36	Role of nitrosyl factors in the hindlimb vasodilation elicited by baroreceptor afferent nerve stimulation. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 290, R741-R748.	0.9	18

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37	Glutathione ethyl ester reverses the deleterious effects of fentanyl on ventilation and arterial blood-gas chemistry while prolonging fentanyl-induced analgesia. Scientific Reports, 2021, 11, 6985.	1.6	18
38	d-Cystine di(m)ethyl ester reverses the deleterious effects of morphine on ventilation and arterial blood gas chemistry while promoting antinociception. Scientific Reports, 2021, 11, 10038.	1.6	18
39	Morphine has latent deleterious effects on the ventilatory responses to a hypoxic-hypercapnic challenge. Open Journal of Molecular and Integrative Physiology, 2013, 03, 134-145.	0.6	18
40	Detection of trace concentrations of S-nitrosothiols by means of a capacitive sensor. PLoS ONE, 2017, 12, e0187149.	1.1	17
41	S-nitrosocysteine elicits hemodynamic responses similar to those of the Bezoldâ€“Jarisch reflex via activation of stereoselective recognition sites. European Journal of Pharmacology, 2006, 531, 254-258.	1.7	15
42	NADPH diaphorase detects S-nitrosylated proteins in aldehyde-treated biological tissues. Scientific Reports, 2020, 10, 21088.	1.6	15
43	Systemic Administration of Tempol Attenuates the Cardiorespiratory Depressant Effects of Fentanyl. Frontiers in Pharmacology, 2021, 12, 690407.	1.6	14
44	Tempol Reverses the Negative Effects of Morphine on Arterial Blood-Gas Chemistry and Tissue Oxygen Saturation in Freely-Moving Rats. Frontiers in Pharmacology, 2021, 12, 749084.	1.6	14
45	Nitrosyl factors play a vital role in the ventilatory depressant effects of fentanyl in unanesthetized rats. Biomedicine and Pharmacotherapy, 2022, 146, 112571.	2.5	14
46	Hemodynamic effects ofl-glutamate in NTS of conscious rats: a possible role of vascular nitrosyl factors. American Journal of Physiology - Heart and Circulatory Physiology, 1998, 274, H1066-H1074.	1.5	13
47	ACE inhibition restores the vasodilator potency of the endothelium-derived relaxing factor, l-S-nitrosocysteine, in conscious Spontaneously Hypertensive rats. Vascular Pharmacology, 2006, 44, 491-507.	1.0	12
48	The vasodilator potency of the endothelium-derived relaxing factor, l-S-nitrosocysteine, is impaired in conscious spontaneously hypertensive rats. Vascular Pharmacology, 2006, 44, 476-490.	1.0	11
49	Low-dose morphine elicits ventilatory excitant and depressant responses in conscious rats: Role of peripheral <i>µ</i>-opioid receptors. Open Journal of Molecular and Integrative Physiology, 2013, 03, 111-124.	0.6	11
50	The superior cervical ganglia modulate ventilatory responses to hypoxia independently of preganglionic drive from the cervical sympathetic chain. Journal of Applied Physiology, 2021, 131, 836-857.	1.2	10
51	Reduced nociceptive effects of intravenous serotonin (5â€“HT) in the spontaneously hypertensive rat. Clinical and Experimental Hypertension, 1991, 13, 849-857.	0.3	9
52	S-Nitrosoglutathione formation at gastric pH is augmented by ascorbic acid and by the antioxidant vitamin complex, Resiston. Pharmaceutical Biology, 2018, 56, 86-93.	1.3	9
53	Short-term facilitation of breathing upon cessation of hypoxic challenge is impaired in male but not female endothelial NOS knock-out mice. Scientific Reports, 2021, 11, 18346.	1.6	9
54	The Role of Carotid Sinus Nerve Input in the Hypoxic-Hypercapnic Ventilatory Response in Juvenile Rats. Frontiers in Physiology, 2020, 11, 613786.	1.3	9

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55	D-cysteine ethylÂester and D-cystine dimethylÂester reverse the deleterious effects of morphine on arterial blood-gas chemistry and Alveolar-arterial gradient in anesthetized rats. Respiratory Physiology and Neurobiology, 2022, 302, 103912.	0.7	9
56	Differential effects of ouabain on the vasodilator actions of nitric oxide and S-nitrosothiols in vivo: Relevance to the identity of EDRF/EDHF. Vascular Pharmacology, 2006, 45, 383-394.	1.0	8
57	Flavin Adenine Dinucleotide May Release Preformed Stores of Nitrosyl Factors From the Vascular Endothelium of Conscious Rats. Journal of Cardiovascular Pharmacology, 2007, 50, 142-154.	0.8	8
58	Pharmacokinetic study of Sudaxine in dog plasma using novel LCâ€“MS/MS method. Drug Testing and Analysis, 2019, 11, 403-410.	1.6	8
59	Laterality Influences Central Integration of Baroreceptor Afferent Input in Male and Female Sprague Dawley Rats. Frontiers in Physiology, 2020, 11, 499.	1.3	8
60	Tachyphylaxis to PACAP-27 after inhibition of NO synthesis: a loss of adenylate cyclase activation. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1999, 277, R1453-R1461.	0.9	7
61	Downregulation of propranolol-sensitive Î² -adrenoceptor signaling after inhibition of nitric oxide synthesis. British Journal of Pharmacology, 2006, 147, 755-764.	2.7	7
62	Effects of Rho-kinase and Src protein tyrosine kinase inhibition on agonist-induced vasoconstriction of arteries and veins of the equine laminar dermis. American Journal of Veterinary Research, 2007, 68, 886-894.	0.3	7
63	Differential effects of peroxynitrite on the function of arginine vasopressin V1a receptors and alpha1-adrenoceptors in vivo. Vascular Pharmacology, 2007, 46, 24-34.	1.0	7
64	Role of nitric oxide-containing factors in the ventilatory and cardiovascular responses elicited by hypoxic challenge in isoflurane-anesthetized rats. Journal of Applied Physiology, 2014, 116, 1371-1381.	1.2	7
65	Cardiovascular responses elicited by continuous versus intermittent electrical stimulation of the aortic depressor nerve in conscious rats. Life Sciences, 2016, 148, 99-105.	2.0	7
66	Loss of Cervical Sympathetic Chain Input to the Superior Cervical Ganglia Affects the Ventilatory Responses to Hypoxic Challenge in Freely-Moving C57BL6 Mice. Frontiers in Physiology, 2021, 12, 619688.	1.3	7
67	S-Nitroso-L-Cysteine Stereoselectively Blunts the Deleterious Effects of Fentanyl on Breathing While Augmenting Antinociception in Freely-Moving Rats. Frontiers in Pharmacology, 0, 13, .	1.6	7
68	D-Cysteine Ethyl Ester Reverses the Deleterious Effects of Morphine on Breathing and Arterial Bloodâ€“Gas Chemistry in Freely-Moving Rats. Frontiers in Pharmacology, 0, 13, .	1.6	7
69	L-NAC reverses of the adverse effects of fentanyl infusion on ventilation and blood-gas chemistry. Biomedicine and Pharmacotherapy, 2022, 153, 113277.	2.5	7
70	AV3V lesions attenuate the cardiovascular responses produced by blood-borne excitatory amino acid analogs. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 276, H1409-H1415.	1.5	6
71	Vasopressin-Induced Constriction of the Isolated Rat Occipital Artery is Segment Dependent. Journal of Vascular Research, 2013, 50, 478-485.	0.6	5
72	Effects of intracerebroventricular injections of 5-HT on systemic vascular resistances of conscious rats. Microvascular Research, 2014, 95, 116-123.	1.1	5

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73	Ventilatory responses during and following hypercapnic gas challenge are impaired in male but not female endothelial NOS knock-out mice. Scientific Reports, 2021, 11, 20557.	1.6	5
74	Chronic Electrical Stimulation of the Superior Laryngeal Nerve in the Rat: A Potential Therapeutic Approach for Postmenopausal Osteoporosis. Biomedicines, 2020, 8, 369.	1.4	4
75	Carotid sinus nerve transection abolishes the facilitation of breathing that occurs upon cessation of a hypercapnic gas challenge in male mice. Journal of Applied Physiology, 2021, 131, 821-835.	1.2	4
76	Occipital Artery Function during the Development of 2-Kidney, 1-Clip Hypertension in Rats. International Journal of Vascular Medicine, 2014, 2014, 1-9.	0.4	3
77	Hemodynamic responses elicited by systemic injections of isotonic and hypertonic saline in hemorrhaged rats. Microvascular Research, 2014, 91, 22-29.	1.1	3
78	Differential immunostaining patterns of transient receptor potential (<scp>TRP</scp>) ion channels in the rat nodose ganglion. Journal of Anatomy, 2022, , .	0.9	3
79	Hemodynamic Responses Elicited By Î³2-MSH or Blood Replacement in Hemorrhaged Rats. Journal of Surgical Research, 2007, 139, 121-127.	0.8	2
80	Tracheomalacia in bronchopulmonary dysplasia: Trachealis hyperâ€relaxant responses to Sâ€nitrosoglutathione in a hyperoxic murine model. Pediatric Pulmonology, 2019, 54, 1989-1996.	1.0	2
81	Characterization of endothelium-dependent and -independent processes in occipital artery of the rat: relevance to control of blood flow to nodose sensory cells. Journal of Applied Physiology, 2021, 131, 1067-1079.	1.2	2
82	Cardiorespiratory anomalies and increased brainstem microglia in a rat model of neonatal opioid withdrawal syndrome. Respiratory Physiology and Neurobiology, 2022, 296, 103800.	0.7	2
83	The comings and goings of the vagus and the need to know your neural fulcrum. Journal of Physiology, 2017, 595, 6809-6810.	1.3	1
84	Systemic Administration of Tempol, a Superoxide Dismutase Mimetic, Augments Upper Airway Muscle Activity in Obese Zucker Rats. Frontiers in Pharmacology, 2022, 13, 814032.	1.6	1
85	Hypercholesteremia-induced changes in left ventricular geometry in the guinea pig. American Journal of Hypertension, 2004, 17, S168.	1.0	0
86	Hypercholesteremia induces enhanced circulating inflammatory activity. American Journal of Hypertension, 2004, 17, S242.	1.0	0
87	Effects of non-leukocyte-reduced and leukocyte-reduced packed red blood cell transfusions on oxygenation of rat spinotrapezius muscle. Microvascular Research, 2014, 91, 30-36.	1.1	0
88	Effect of Cervical Sympathetic Chain Stimulation on Upper Airway Pressure is Dependent on Direct Postâ€Ganglionic Innervation from the Superior Cervical Ganglion. FASEB Journal, 2018, 32, 887.1.	0.2	0
89	Phase synchronization as a flexible definition of the respiratory pattern: Application to pontineâ€dependent control of the respiratory pattern. FASEB Journal, 2018, 32, 915.2.	0.2	0
90	Chemoreflex Responses to LPS Exposure During a Critical Window of Development in the in situ Arterially Perfused Working Heart Brainstem Preparation. FASEB Journal, 2018, 32, 742.8.	0.2	0

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91	Role of the Superior Cervical Ganglion in Response to Hypoxia in Juvenile Rats. FASEB Journal, 2018, 32, 601.4.	0.2	0
92	Superior Cervical Ganglionectomy alters Glomus Cell Potassiumâ€Channel Properties in Response to Hypoxia. FASEB Journal, 2018, 32, 601.5.	0.2	0
93	Neural Responses of the Cervical Sympathetic Chain to Barorecepter Activation and to Hypoxic Challenge in Sprague‐Dawley Rats. FASEB Journal, 2019, 33, 562.2.	0.2	0
94	Role of the ganglioglomerular nerve in response to hypoxia in juvenile rats. FASEB Journal, 2019, 33, 551.11.	0.2	0
95	Localization and induced release of potentially therapeutic components of the rat submandibular salivary gland. FASEB Journal, 2019, 33, 446.3.	0.2	0
96	Electrical stimulation of the cervical Sympathetic Chains decreases upper airway resistance in conscious Zucker‐Fat Rats. FASEB Journal, 2019, 33, .	0.2	0
97	Topographic Anatomic Mapping of the Superior Cervical Ganglion with Novel Optical Clearing Method (LIMPID). FASEB Journal, 2019, 33, 768.6.	0.2	0
98	Abstract 12867: Neuromodulation Of The Renal Nerves In Spontaneously Hypertensive Rats. Circulation, 2021, 144, .	1.6	0