

Stephen J Lewis

List of Publications by Year in descending order

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98
papers

1,688
citations

279487

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377514

34
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99
all docs

99
docs citations

99
times ranked

1281
citing authors

#	ARTICLE	IF	CITATIONS
1	Cardiorespiratory anomalies and increased brainstem microglia in a rat model of neonatal opioid withdrawal syndrome. <i>Respiratory Physiology and Neurobiology</i> , 2022, 296, 103800.	0.7	2
2	Nitrosyl factors play a vital role in the ventilatory depressant effects of fentanyl in unanesthetized rats. <i>Biomedicine and Pharmacotherapy</i> , 2022, 146, 112571.	2.5	14
3	Artificial intelligence framework identifies candidate targets for drug repurposing in Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2022, 14, 7.	3.0	42
4	Systemic Administration of Tempol, a Superoxide Dismutase Mimetic, Augments Upper Airway Muscle Activity in Obese Zucker Rats. <i>Frontiers in Pharmacology</i> , 2022, 13, 814032.	1.6	1
5	D-cysteine ethyl ester and D-cystine dimethyl ester reverse the deleterious effects of morphine on arterial blood-gas chemistry and Alveolar-arterial gradient in anesthetized rats. <i>Respiratory Physiology and Neurobiology</i> , 2022, 302, 103912.	0.7	9
6	Differential immunostaining patterns of transient receptor potential (TRP) ion channels in the rat nodose ganglion. <i>Journal of Anatomy</i> , 2022, , .	0.9	3
7	L-NAC reverses of the adverse effects of fentanyl infusion on ventilation and blood-gas chemistry. <i>Biomedicine and Pharmacotherapy</i> , 2022, 153, 113277.	2.5	7
8	Glutathione ethyl ester reverses the deleterious effects of fentanyl on ventilation and arterial blood-gas chemistry while prolonging fentanyl-induced analgesia. <i>Scientific Reports</i> , 2021, 11, 6985.	1.6	18
9	Loss of Cervical Sympathetic Chain Input to the Superior Cervical Ganglia Affects the Ventilatory Responses to Hypoxic Challenge in Freely-Moving C57BL6 Mice. <i>Frontiers in Physiology</i> , 2021, 12, 619688.	1.3	7
10	d-Cystine di(m)ethyl ester reverses the deleterious effects of morphine on ventilation and arterial blood gas chemistry while promoting antinociception. <i>Scientific Reports</i> , 2021, 11, 10038.	1.6	18
11	Systemic Administration of Tempol Attenuates the Cardiorespiratory Depressant Effects of Fentanyl. <i>Frontiers in Pharmacology</i> , 2021, 12, 690407.	1.6	14
12	Carotid sinus nerve transection abolishes the facilitation of breathing that occurs upon cessation of a hypercapnic gas challenge in male mice. <i>Journal of Applied Physiology</i> , 2021, 131, 821-835.	1.2	4
13	The superior cervical ganglia modulate ventilatory responses to hypoxia independently of preganglionic drive from the cervical sympathetic chain. <i>Journal of Applied Physiology</i> , 2021, 131, 836-857.	1.2	10
14	Tempol Reverses the Negative Effects of Morphine on Arterial Blood-Gas Chemistry and Tissue Oxygen Saturation in Freely-Moving Rats. <i>Frontiers in Pharmacology</i> , 2021, 12, 749084.	1.6	14
15	Characterization of endothelium-dependent and -independent processes in occipital artery of the rat: relevance to control of blood flow to nodose sensory cells. <i>Journal of Applied Physiology</i> , 2021, 131, 1067-1079.	1.2	2
16	Short-term facilitation of breathing upon cessation of hypoxic challenge is impaired in male but not female endothelial NOS knock-out mice. <i>Scientific Reports</i> , 2021, 11, 18346.	1.6	9
17	Ventilatory responses during and following hypercapnic gas challenge are impaired in male but not female endothelial NOS knock-out mice. <i>Scientific Reports</i> , 2021, 11, 20557.	1.6	5
18	Abstract 12867: Neuromodulation Of The Renal Nerves In Spontaneously Hypertensive Rats. <i>Circulation</i> , 2021, 144, .	1.6	0

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19	Chronic Electrical Stimulation of the Superior Laryngeal Nerve in the Rat: A Potential Therapeutic Approach for Postmenopausal Osteoporosis. <i>Biomedicines</i> , 2020, 8, 369.	1.4	4
20	Advances in D-Amino Acids in Neurological Research. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7325.	1.8	33
21	NADPH diaphorase detects S-nitrosylated proteins in aldehyde-treated biological tissues. <i>Scientific Reports</i> , 2020, 10, 21088.	1.6	15
22	Laterality Influences Central Integration of Baroreceptor Afferent Input in Male and Female Sprague Dawley Rats. <i>Frontiers in Physiology</i> , 2020, 11, 499.	1.3	8
23	Network-based prediction of drug–target interactions using an arbitrary-order proximity embedded deep forest. <i>Bioinformatics</i> , 2020, 36, 2805-2812.	1.8	101
24	Voltage-gated potassium channel proteins and stereoselective S-nitroso-l-cysteine signaling. <i>JCI Insight</i> , 2020, 5, .	2.3	20
25	The Role of Carotid Sinus Nerve Input in the Hypoxic-Hypercapnic Ventilatory Response in Juvenile Rats. <i>Frontiers in Physiology</i> , 2020, 11, 613786.	1.3	9
26	Tracheomalacia in bronchopulmonary dysplasia: Trachealis hyper-relaxant responses to S-nitrosoglutathione in a hyperoxic murine model. <i>Pediatric Pulmonology</i> , 2019, 54, 1989-1996.	1.0	2
27	Pancreatic nerve electrostimulation inhibits recent-onset autoimmune diabetes. <i>Nature Biotechnology</i> , 2019, 37, 1446-1451.	9.4	34
28	Pharmacokinetic study of Sudaxine in dog plasma using novel LC–MS/MS method. <i>Drug Testing and Analysis</i> , 2019, 11, 403-410.	1.6	8
29	Neural Responses of the Cervical Sympathetic Chain to Baroreceptor Activation and to Hypoxic Challenge in Sprague–Dawley Rats. <i>FASEB Journal</i> , 2019, 33, 562.2.	0.2	0
30	Role of the ganglioglomerular nerve in response to hypoxia in juvenile rats. <i>FASEB Journal</i> , 2019, 33, 551.11.	0.2	0
31	Localization and induced release of potentially therapeutic components of the rat submandibular salivary gland. <i>FASEB Journal</i> , 2019, 33, 446.3.	0.2	0
32	Electrical stimulation of the cervical Sympathetic Chains decreases upper airway resistance in conscious Zucker–Fat Rats. <i>FASEB Journal</i> , 2019, 33, .	0.2	0
33	Topographic Anatomic Mapping of the Superior Cervical Ganglion with Novel Optical Clearing Method (LIMPID). <i>FASEB Journal</i> , 2019, 33, 768.6.	0.2	0
34	S-Nitrosoglutathione formation at gastric pH is augmented by ascorbic acid and by the antioxidant vitamin complex, Resiston. <i>Pharmaceutical Biology</i> , 2018, 56, 86-93.	1.3	9
35	Bilateral carotid sinus nerve transection exacerbates morphine-induced respiratory depression. <i>European Journal of Pharmacology</i> , 2018, 834, 17-29.	1.7	35
36	Effect of Cervical Sympathetic Chain Stimulation on Upper Airway Pressure is Dependent on Direct Post-Ganglionic Innervation from the Superior Cervical Ganglion. <i>FASEB Journal</i> , 2018, 32, 887.1.	0.2	0

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37	Phase synchronization as a flexible definition of the respiratory pattern: Application to pontine-dependent control of the respiratory pattern. <i>FASEB Journal</i> , 2018, 32, 915.2.	0.2	0
38	Chemoreflex Responses to LPS Exposure During a Critical Window of Development in the in situ Arterially Perfused Working Heart Brainstem Preparation. <i>FASEB Journal</i> , 2018, 32, 742.8.	0.2	0
39	Role of the Superior Cervical Ganglion in Response to Hypoxia in Juvenile Rats. <i>FASEB Journal</i> , 2018, 32, 601.4.	0.2	0
40	Superior Cervical Ganglionectomy alters Glomus Cell Potassium Channel Properties in Response to Hypoxia. <i>FASEB Journal</i> , 2018, 32, 601.5.	0.2	0
41	The comings and goings of the vagus and the need to know your neural fulcrum. <i>Journal of Physiology</i> , 2017, 595, 6809-6810.	1.3	1
42	Detection of trace concentrations of S-nitrosothiols by means of a capacitive sensor. <i>PLoS ONE</i> , 2017, 12, e0187149.	1.1	17
43	Decreased heart rate and enhanced sinus arrhythmia during interictal sleep demonstrate autonomic imbalance in generalized epilepsy. <i>Journal of Neurophysiology</i> , 2016, 115, 1988-1999.	0.9	23
44	Cardiovascular responses elicited by continuous versus intermittent electrical stimulation of the aortic depressor nerve in conscious rats. <i>Life Sciences</i> , 2016, 148, 99-105.	2.0	7
45	Augmentation of CFTR maturation by S-nitrosoglutathione reductase. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 310, L263-L270.	1.3	38
46	Phenotype of asthmatics with increased airway S-nitrosoglutathione reductase activity. <i>European Respiratory Journal</i> , 2015, 45, 87-97.	3.1	26
47	Hypoxia-Induced Changes in Protein S-Nitrosylation in Female Mouse Brainstem. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2015, 52, 37-45.	1.4	23
48	Essential role of hemoglobin beta-93-cysteine in posthypoxia facilitation of breathing in conscious mice. <i>Journal of Applied Physiology</i> , 2014, 116, 1290-1299.	1.2	45
49	Occipital Artery Function during the Development of 2-Kidney, 1-Clip Hypertension in Rats. <i>International Journal of Vascular Medicine</i> , 2014, 2014, 1-9.	0.4	3
50	Role of central and peripheral opiate receptors in the effects of fentanyl on analgesia, ventilation and arterial blood-gas chemistry in conscious rats. <i>Respiratory Physiology and Neurobiology</i> , 2014, 191, 95-105.	0.7	33
51	S-nitrosothiols increases cystic fibrosis transmembrane regulator expression and maturation in the cell surface. <i>Biochemical and Biophysical Research Communications</i> , 2014, 443, 1257-1262.	1.0	25
52	Enhanced non-eupneic breathing following hypoxic, hypercapnic or hypoxic-hypercapnic gas challenges in conscious mice. <i>Respiratory Physiology and Neurobiology</i> , 2014, 204, 147-159.	0.7	24
53	Role of nitric oxide-containing factors in the ventilatory and cardiovascular responses elicited by hypoxic challenge in isoflurane-anesthetized rats. <i>Journal of Applied Physiology</i> , 2014, 116, 1371-1381.	1.2	7
54	Effects of intracerebroventricular injections of 5-HT on systemic vascular resistances of conscious rats. <i>Microvascular Research</i> , 2014, 95, 116-123.	1.1	5

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55	Effects of non-leukocyte-reduced and leukocyte-reduced packed red blood cell transfusions on oxygenation of rat spinotrapezius muscle. <i>Microvascular Research</i> , 2014, 91, 30-36.	1.1	0
56	Hemodynamic responses elicited by systemic injections of isotonic and hypertonic saline in hemorrhaged rats. <i>Microvascular Research</i> , 2014, 91, 22-29.	1.1	3
57	Ventilatory responses during and following exposure to a hypoxic challenge in conscious mice deficient or null in S-nitrosoglutathione reductase. <i>Respiratory Physiology and Neurobiology</i> , 2013, 185, 571-581.	0.7	30
58	Hypoxia-induced ventilatory responses in conscious mice: Gender differences in ventilatory roll-off and facilitation. <i>Respiratory Physiology and Neurobiology</i> , 2013, 185, 497-505.	0.7	30
59	L-Cysteine ethyl ester reverses the deleterious effects of morphine on arterial blood gas chemistry in tracheotomized rats. <i>Respiratory Physiology and Neurobiology</i> , 2013, 189, 136-143.	0.7	23
60	Co-activation of μ - and δ -opioid receptors elicits tolerance to morphine-induced ventilatory depression via generation of peroxynitrite. <i>Respiratory Physiology and Neurobiology</i> , 2013, 186, 255-264.	0.7	23
61	Vasopressin-Induced Constriction of the Isolated Rat Occipital Artery is Segment Dependent. <i>Journal of Vascular Research</i> , 2013, 50, 478-485.	0.6	5
62	Low-dose morphine elicits ventilatory excitant and depressant responses in conscious rats: Role of peripheral μ - and δ -opioid receptors. <i>Open Journal of Molecular and Integrative Physiology</i> , 2013, 03, 111-124.	0.6	11
63	Morphine has latent deleterious effects on the ventilatory responses to a hypoxic-hypercapnic challenge. <i>Open Journal of Molecular and Integrative Physiology</i> , 2013, 03, 134-145.	0.6	18
64	Morphine has latent deleterious effects on the ventilatory responses to a hypoxic challenge*. <i>Open Journal of Molecular and Integrative Physiology</i> , 2013, 03, 166-180.	0.6	22
65	Photostimulation of Phox2b Medullary Neurons Activates Cardiorespiratory Function in Conscious Rats. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2010, 182, 1184-1194.	2.5	80
66	Effects of Rho-kinase and Src protein tyrosine kinase inhibition on agonist-induced vasoconstriction of arteries and veins of the equine laminar dermis. <i>American Journal of Veterinary Research</i> , 2007, 68, 886-894.	0.3	7
67	Flavin Adenine Dinucleotide May Release Preformed Stores of Nitrosyl Factors From the Vascular Endothelium of Conscious Rats. <i>Journal of Cardiovascular Pharmacology</i> , 2007, 50, 142-154.	0.8	8
68	Hemodynamic Responses Elicited By β -MSH or Blood Replacement in Hemorrhaged Rats. <i>Journal of Surgical Research</i> , 2007, 139, 121-127.	0.8	2
69	Differential effects of peroxynitrite on the function of arginine vasopressin V1a receptors and α 1-adrenoceptors in vivo. <i>Vascular Pharmacology</i> , 2007, 46, 24-34.	1.0	7
70	Downregulation of propranolol-sensitive β -adrenoceptor signaling after inhibition of nitric oxide synthesis. <i>British Journal of Pharmacology</i> , 2006, 147, 755-764.	2.7	7
71	ACE inhibition restores the vasodilator potency of the endothelium-derived relaxing factor, l-S-nitrosocysteine, in conscious Spontaneously Hypertensive rats. <i>Vascular Pharmacology</i> , 2006, 44, 491-507.	1.0	12
72	The vasodilator potency of the endothelium-derived relaxing factor, l-S-nitrosocysteine, is impaired in conscious spontaneously hypertensive rats. <i>Vascular Pharmacology</i> , 2006, 44, 476-490.	1.0	11

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73	Differential effects of ouabain on the vasodilator actions of nitric oxide and S-nitrosothiols in vivo: Relevance to the identity of EDRF/EDHF. <i>Vascular Pharmacology</i> , 2006, 45, 383-394.	1.0	8
74	S-nitrosocysteine elicits hemodynamic responses similar to those of the Bezold-Jarisch reflex via activation of stereoselective recognition sites. <i>European Journal of Pharmacology</i> , 2006, 531, 254-258.	1.7	15
75	Role of nitrosyl factors in the hindlimb vasodilation elicited by baroreceptor afferent nerve stimulation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 290, R741-R748.	0.9	18
76	Differentiation of L- and D-S-Nitrosothiol Recognition Sites In Vivo. <i>Journal of Cardiovascular Pharmacology</i> , 2005, 46, 660-671.	0.8	28
77	Potential role of nitration and oxidation reactions in the effects of peroxynitrite on the function of β_2 -adrenoceptor sub-types in the rat. <i>European Journal of Pharmacology</i> , 2005, 518, 187-194.	1.7	23
78	Role of voltage-sensitive calcium-channels in nitric oxide-mediated vasodilation in Spontaneously Hypertensive rats. <i>European Journal of Pharmacology</i> , 2005, 528, 144-149.	1.7	20
79	Peroxynitrite Elicits Dysfunction of Stereoselective S-Nitrosocysteine Recognition Sites. <i>Journal of Cardiovascular Pharmacology</i> , 2005, 46, 637-645.	0.8	20
80	Hypercholesteremia-induced changes in left ventricular geometry in the guinea pig. <i>American Journal of Hypertension</i> , 2004, 17, S168.	1.0	0
81	Hypercholesteremia induces enhanced circulating inflammatory activity. <i>American Journal of Hypertension</i> , 2004, 17, S242.	1.0	0
82	Visual processing of facial affect. <i>NeuroReport</i> , 2003, 14, 1841-1845.	0.6	41
83	Blockade of voltage-sensitive Ca^{2+} -channels markedly diminishes nitric oxide- but not l-S-nitrosocysteine- or endothelium-dependent vasodilation in vivo. <i>European Journal of Pharmacology</i> , 2000, 408, 289-298.	1.7	24
84	β_2 -Adrenoceptor Dysfunction After Inhibition of NO Synthesis. <i>Hypertension</i> , 2000, 36, 376-382.	1.3	31
85	Medial prefrontal cortex acetylcholine injection-induced hypotension: the role of hindlimb vasodilation. <i>Journal of the Autonomic Nervous System</i> , 2000, 79, 1-7.	1.9	25
86	AV3V lesions attenuate the cardiovascular responses produced by blood-borne excitatory amino acid analogs. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999, 276, H1409-H1415.	1.5	6
87	Tachyphylaxis to PACAP-27 after inhibition of NO synthesis: a loss of adenylate cyclase activation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1999, 277, R1453-R1461.	0.9	7
88	Hemodynamic actions of systemically injected pituitary adenylate cyclase activating polypeptide-27 in the rat. <i>European Journal of Pharmacology</i> , 1999, 365, 205-215.	1.7	24
89	Hemodynamic effects of l-glutamate in NTS of conscious rats: a possible role of vascular nitrosyl factors. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1998, 274, H1066-H1074.	1.5	13
90	Actions of S-nitrosocysteine in the nucleus tractus solitarii are unrelated to release of nitric oxide. <i>Brain Research</i> , 1997, 746, 98-104.	1.1	63

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91	Nitrotyrosine attenuates the hemodynamic effects of adrenoceptor agonists in vivo: relevance to the pathophysiology of peroxynitrite. <i>European Journal of Pharmacology</i> , 1996, 310, 155-161.	1.7	40
92	Use-Dependent Loss of Active Sympathetic Neurogenic Vasodilation After Nitric Oxide Synthase Inhibition in Conscious Rats. <i>Hypertension</i> , 1996, 28, 347-353.	1.3	35
93	Use-Dependent Loss of Acetylcholine- and Bradykinin-Mediated Vasodilation After Nitric Oxide Synthase Inhibition. <i>Hypertension</i> , 1996, 28, 354-360.	1.3	58
94	Hemodynamic Effects of <i>l</i> - and <i>d</i> - <i>S</i> -Nitrosocysteine in the Rat. <i>Circulation Research</i> , 1996, 79, 256-262.	2.0	85
95	Reduced nociceptive effects of intravenous serotonin (5-HT) in the spontaneously hypertensive rat. <i>Clinical and Experimental Hypertension</i> , 1991, 13, 849-857.	0.3	9
96	The peripheral nociceptive actions of intravenously administered 5-HT in the rat requires dual activation of both 5-HT ₂ and 5-HT ₃ receptor subtypes. <i>Brain Research</i> , 1991, 561, 61-68.	1.1	48
97	S-Nitroso-L-Cysteine Stereoselectively Blunts the Deleterious Effects of Fentanyl on Breathing While Augmenting Antinociception in Freely-Moving Rats. <i>Frontiers in Pharmacology</i> , 0, 13, .	1.6	7
98	D-Cysteine Ethyl Ester Reverses the Deleterious Effects of Morphine on Breathing and Arterial Blood Gas Chemistry in Freely-Moving Rats. <i>Frontiers in Pharmacology</i> , 0, 13, .	1.6	7