

Emmanuel S Buys

List of Publications by Year in descending order

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46
papers

1,534
citations

304743

22
h-index

330143

37
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47
all docs

47
docs citations

47
times ranked

2519
citing authors

#	ARTICLE	IF	CITATIONS
1	Gender-specific hypertension and responsiveness to nitric oxide in sGC β 1 knockout mice. Cardiovascular Research, 2008, 79, 179-186.	3.8	107
2	HDAC9 is implicated in atherosclerotic aortic calcification and affects vascular smooth muscle cell phenotype. Nature Genetics, 2019, 51, 1580-1587.	21.4	92
3	Inhaled Nitric Oxide Improves Outcomes After Successful Cardiopulmonary Resuscitation in Mice. Circulation, 2011, 124, 1645-1653.	1.6	91
4	Association of Dietary Nitrate Intake With Primary Open-Angle Glaucoma. JAMA Ophthalmology, 2016, 134, 294.	2.5	81
5	Soluble Guanylate Cyclase- β 1 Deficiency Selectively Inhibits the Pulmonary Vasodilator Response to Nitric Oxide and Increases the Pulmonary Vascular Remodeling Response to Chronic Hypoxia. Circulation, 2007, 116, 936-943.	1.6	71
6	Discovery and development of next generation sGC stimulators with diverse multidimensional pharmacology and broad therapeutic potential. Nitric Oxide - Biology and Chemistry, 2018, 78, 72-80.	2.7	65
7	Cardiovascular and pharmacological implications of haem-deficient NO-unresponsive soluble guanylate cyclase knock-in mice. Nature Communications, 2015, 6, 8482.	12.8	64
8	Inhibition of Bone Morphogenetic Protein Signal Transduction Prevents the Medial Vascular Calcification Associated with Matrix Gla Protein Deficiency. PLoS ONE, 2015, 10, e0117098.	2.5	58
9	Identification of Candidate miRNA Biomarkers for Glaucoma. , 2019, 60, 134.		57
10	Functional brown adipose tissue limits cardiomyocyte injury and adverse remodeling in catecholamine-induced cardiomyopathy. Journal of Molecular and Cellular Cardiology, 2015, 84, 202-211.	1.9	56
11	Soluble Guanylate Cyclase β 1 Deficient Mice: A Novel Murine Model for Primary Open Angle Glaucoma. PLoS ONE, 2013, 8, e60156.	2.5	55
12	The nitric oxide-guanylate cyclase pathway and glaucoma. Nitric Oxide - Biology and Chemistry, 2018, 77, 75-87.	2.7	52
13	Increased Circulating FGF23 Does Not Lead to Cardiac Hypertrophy in the Male Hyp Mouse Model of XLH. Endocrinology, 2018, 159, 2165-2172.	2.8	44
14	Regulation of intraocular pressure by soluble and membrane guanylate cyclases and their role in glaucoma. Frontiers in Molecular Neuroscience, 2014, 7, 38.	2.9	43
15	sGC β 1 ² attenuates cardiac dysfunction and mortality in murine inflammatory shock models. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 297, H654-H663.	3.2	42
16	Weight Loss, Saline Loading, and the Natriuretic Peptide System. Journal of the American Heart Association, 2015, 4, e001265.	3.7	37
17	Acute Metabolic Influences on the Natriuretic Peptide System in Humans. Journal of the American College of Cardiology, 2016, 67, 804-812.	2.8	34
18	New insights into the role of soluble guanylate cyclase in blood pressure regulation. Current Opinion in Nephrology and Hypertension, 2014, 23, 135-142.	2.0	33

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19	Nitric Oxide Regulates Skeletal Muscle Fatigue, Fiber Type, Microtubule Organization, and Mitochondrial ATP Synthesis Efficiency Through cGMP-Dependent Mechanisms. <i>Antioxidants and Redox Signaling</i> , 2017, 26, 966-985.	5.4	33
20	Effect of Phosphodiesterase Inhibition on Insulin Resistance in Obese Individuals. <i>Journal of the American Heart Association</i> , 2014, 3, e001001.	3.7	28
21	Genetic modifiers of hypertension in soluble guanylate cyclase β -deficient mice. <i>Journal of Clinical Investigation</i> , 2012, 122, 2316-2325.	8.2	28
22	Androgen-sensitive hypertension associated with soluble guanylate cyclase β deficiency is mediated by 20-HETE. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H1790-H1800.	3.2	27
23	Endothelial dysfunction inhibits the ability of haptoglobin to prevent hemoglobin-induced hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 312, H1120-H1127.	3.2	27
24	The Ability of Nitric Oxide to Lower Intraocular Pressure Is Dependent on Guanylyl Cyclase. , 2017, 58, 4826.		26
25	Intrinsic anti-inflammatory properties in the serum of two species of deep-diving seal. <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	25
26	Soluble guanylate cyclase β is required for the cardioprotective effects of inhaled nitric oxide. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 300, H1477-H1483.	3.2	24
27	Soluble guanylate cyclase stimulator praliciguat attenuates inflammation, fibrosis, and end-organ damage in the Dahl model of cardiorenal failure. <i>American Journal of Physiology - Renal Physiology</i> , 2020, 318, F148-F159.	2.7	24
28	An open-source computational tool to automatically quantify immunolabeled retinal ganglion cells. <i>Experimental Eye Research</i> , 2016, 147, 50-56.	2.6	23
29	Oliniguat, an Oral sGC Stimulator, Exhibits Diverse Pharmacology Across Preclinical Models of Cardiovascular, Metabolic, Renal, and Inflammatory Disease. <i>Frontiers in Pharmacology</i> , 2020, 11, 419.	3.5	21
30	Novel MicroRNA Regulators of Atrial Natriuretic Peptide Production. <i>Molecular and Cellular Biology</i> , 2016, 36, 1977-1987.	2.3	20
31	Calcification of Vascular Smooth Muscle Cells and Imaging of Aortic Calcification and Inflammation. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	19
32	GSNOR Deficiency Enhances <i>In Situ</i> Skeletal Muscle Strength, Fatigue Resistance, and RyR1 S-Nitrosylation Without Impacting Mitochondrial Content and Activity. <i>Antioxidants and Redox Signaling</i> , 2017, 26, 165-181.	5.4	18
33	Relationship of brown adipose tissue perfusion and function: a study through β -adrenoreceptor stimulation. <i>Journal of Applied Physiology</i> , 2016, 120, 825-832.	2.5	16
34	Soluble epoxide hydrolase deficiency or inhibition enhances murine hypoxic pulmonary vasoconstriction after lipopolysaccharide challenge. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 311, L1213-L1221.	2.9	15
35	Increased bioavailability of cyclic guanylate monophosphate prevents retinal ganglion cell degeneration. <i>Neurobiology of Disease</i> , 2019, 121, 65-75.	4.4	14
36	Oliniguat, a stimulator of soluble guanylyl cyclase, attenuates inflammation, vasoocclusion and nephropathy in mouse models of sickle cell disease. <i>British Journal of Pharmacology</i> , 2021, 178, 3463-3475.	5.4	12

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37	Sensitivity to Sevoflurane anesthesia is decreased in mice with a congenital deletion of Guanylyl Cyclase-1 alpha. BMC Anesthesiology, 2017, 17, 76.	1.8	10
38	Regulation of B β -type natriuretic peptide synthesis by insulin in obesity in male mice. Experimental Physiology, 2016, 101, 113-123.	2.0	9
39	Erectile Dysfunction in Heme-Deficient Nitric Oxide α -Unresponsive Soluble Guanylate Cyclase Knock-In Mice. Journal of Sexual Medicine, 2017, 14, 196-204.	0.6	9
40	Dissociation between urate and blood pressure in mice and in people with early Parkinson's disease. EBioMedicine, 2018, 37, 259-268.	6.1	8
41	cGMP-dependent protein kinase I in vascular smooth muscle cells improves ischemic stroke outcome in mice. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 2379-2391.	4.3	8
42	Soluble Guanylate Cyclase α 1 α -Deficient Mice: A Novel Murine Model for Primary Open Angle Glaucoma. Annals of Neurosciences, 2013, 20, 65-6.	1.7	3
43	SGLT2 inhibition potentiates the cardiovascular, renal, and metabolic effects of sGC stimulation in hypertensive rats with prolonged exposure to high-fat diet. American Journal of Physiology - Heart and Circulatory Physiology, 2022, 322, H523-H536.	3.2	2
44	Beneficial Metabolic Effects of Praliciguat, a Soluble Guanylate Cyclase Stimulator, in a Mouse Diet-Induced Obesity Model. Frontiers in Pharmacology, 2022, 13, 852080.	3.5	2
45	Myocyte α -specific overexpression of NOS3 prevents endotoxin α -induced myocardial dysfunction in mice. FASEB Journal, 2006, 20, .	0.5	0
46	Intrinsic anti α -inflammatory properties of serum in deep α -diving seals. FASEB Journal, 2018, 32, 859.9.	0.5	0