

Emmanuel S Buys

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,534
citations

304743

22
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330143

37
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47
all docs

47
docs citations

47
times ranked

2519
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | SGLT2 inhibition potentiates the cardiovascular, renal, and metabolic effects of sGC stimulation in hypertensive rats with prolonged exposure to high-fat diet. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2022, 322, H523-H536. | 3.2 | 2 |
| 2 | Beneficial Metabolic Effects of Praliciguat, a Soluble Guanylate Cyclase Stimulator, in a Mouse Diet-Induced Obesity Model. <i>Frontiers in Pharmacology</i> , 2022, 13, 852080. | 3.5 | 2 |
| 3 | Olinciguat, a stimulator of soluble guanylyl cyclase, attenuates inflammation, vasoconstriction and nephropathy in mouse models of sickle cell disease. <i>British Journal of Pharmacology</i> , 2021, 178, 3463-3475. | 5.4 | 12 |
| 4 | 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 |
| 5 | Olinciguat, 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 |
| 6 | cGMP-dependent protein kinase I in vascular smooth muscle cells improves ischemic stroke outcome in mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 2379-2391. | 4.3 | 8 |
| 7 | HDAC9 is implicated in atherosclerotic aortic calcification and affects vascular smooth muscle cell phenotype. <i>Nature Genetics</i> , 2019, 51, 1580-1587. | 21.4 | 92 |
| 8 | Increased bioavailability of cyclic guanylate monophosphate prevents retinal ganglion cell degeneration. <i>Neurobiology of Disease</i> , 2019, 121, 65-75. | 4.4 | 14 |
| 9 | Identification of Candidate miRNA Biomarkers for Glaucoma. , 2019, 60, 134. | | 57 |
| 10 | Increased Circulating FGF23 Does Not Lead to Cardiac Hypertrophy in the Male Hyp Mouse Model of XLH. <i>Endocrinology</i> , 2018, 159, 2165-2172. | 2.8 | 44 |
| 11 | The nitric oxide-guanylate cyclase pathway and glaucoma. <i>Nitric Oxide - Biology and Chemistry</i> , 2018, 77, 75-87. | 2.7 | 52 |
| 12 | Dissociation between urate and blood pressure in mice and in people with early Parkinson's disease. <i>EBioMedicine</i> , 2018, 37, 259-268. | 6.1 | 8 |
| 13 | Discovery and development of next generation sGC stimulators with diverse multidimensional pharmacology and broad therapeutic potential. <i>Nitric Oxide - Biology and Chemistry</i> , 2018, 78, 72-80. | 2.7 | 65 |
| 14 | 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 |
| 15 | Intrinsic anti-inflammatory properties of serum in deep-diving seals. <i>FASEB Journal</i> , 2018, 32, 859.9. | 0.5 | 0 |
| 16 | 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 |
| 17 | Erectile Dysfunction in Heme-Deficient Nitric Oxide-“Unresponsive Soluble Guanylate Cyclase Knock-In Mice. <i>Journal of Sexual Medicine</i> , 2017, 14, 196-204. | 0.6 | 9 |
| 18 | Sensitivity to Sevoflurane anesthesia is decreased in mice with a congenital deletion of Guanylyl Cyclase-1 alpha. <i>BMC Anesthesiology</i> , 2017, 17, 76. | 1.8 | 10 |

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|----|--|------|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | The Ability of Nitric Oxide to Lower Intraocular Pressure Is Dependent on Guanylyl Cyclase. , 2017, 58, 4826. | | 26 |
| 22 | 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 |
| 23 | Regulation of B ϵ -type natriuretic peptide synthesis by insulin in obesity in male mice. <i>Experimental Physiology</i> , 2016, 101, 113-123. | 2.0 | 9 |
| 24 | Relationship of brown adipose tissue perfusion and function: a study through β 2-adrenoreceptor stimulation. <i>Journal of Applied Physiology</i> , 2016, 120, 825-832. | 2.5 | 16 |
| 25 | Androgen-sensitive hypertension associated with soluble guanylate cyclase- β 1 deficiency is mediated by 20-HETE. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H1790-H1800. | 3.2 | 27 |
| 26 | Calcification of Vascular Smooth Muscle Cells and Imaging of Aortic Calcification and Inflammation. <i>Journal of Visualized Experiments</i> , 2016, , . | 0.3 | 19 |
| 27 | An open-source computational tool to automatically quantify immunolabeled retinal ganglion cells. <i>Experimental Eye Research</i> , 2016, 147, 50-56. | 2.6 | 23 |
| 28 | Novel MicroRNA Regulators of Atrial Natriuretic Peptide Production. <i>Molecular and Cellular Biology</i> , 2016, 36, 1977-1987. | 2.3 | 20 |
| 29 | Association of Dietary Nitrate Intake With Primary Open-Angle Glaucoma. <i>JAMA Ophthalmology</i> , 2016, 134, 294. | 2.5 | 81 |
| 30 | Acute Metabolic Influences on the Natriuretic Peptide System in Humans. <i>Journal of the American College of Cardiology</i> , 2016, 67, 804-812. | 2.8 | 34 |
| 31 | Weight Loss, Saline Loading, and the Natriuretic Peptide System. <i>Journal of the American Heart Association</i> , 2015, 4, e001265. | 3.7 | 37 |
| 32 | Functional brown adipose tissue limits cardiomyocyte injury and adverse remodeling in catecholamine-induced cardiomyopathy. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 84, 202-211. | 1.9 | 56 |
| 33 | Cardiovascular and pharmacological implications of haem-deficient NO-unresponsive soluble guanylate cyclase knock-in mice. <i>Nature Communications</i> , 2015, 6, 8482. | 12.8 | 64 |
| 34 | Inhibition of Bone Morphogenetic Protein Signal Transduction Prevents the Medial Vascular Calcification Associated with Matrix Gla Protein Deficiency. <i>PLoS ONE</i> , 2015, 10, e0117098. | 2.5 | 58 |
| 35 | Regulation of intraocular pressure by soluble and membrane guanylate cyclases and their role in glaucoma. <i>Frontiers in Molecular Neuroscience</i> , 2014, 7, 38. | 2.9 | 43 |
| 36 | Effect of Phosphodiesterase Inhibition on Insulin Resistance in Obese Individuals. <i>Journal of the American Heart Association</i> , 2014, 3, e001001. | 3.7 | 28 |

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|----|---|-----|-----------|
| 37 | New insights into the role of soluble guanylate cyclase in blood pressure regulation. <i>Current Opinion in Nephrology and Hypertension</i> , 2014, 23, 135-142. | 2.0 | 33 |
| 38 | Soluble Guanylate Cyclase $\alpha 1$ Deficient Mice: A Novel Murine Model for Primary Open Angle Glaucoma. <i>Annals of Neurosciences</i> , 2013, 20, 65-6. | 1.7 | 3 |
| 39 | Soluble Guanylate Cyclase $\alpha 1$ Deficient Mice: A Novel Murine Model for Primary Open Angle Glaucoma. <i>PLoS ONE</i> , 2013, 8, e60156. | 2.5 | 55 |
| 40 | Genetic modifiers of hypertension in soluble guanylate cyclase $\alpha 1$ deficient mice. <i>Journal of Clinical Investigation</i> , 2012, 122, 2316-2325. | 8.2 | 28 |
| 41 | Inhaled Nitric Oxide Improves Outcomes After Successful Cardiopulmonary Resuscitation in Mice. <i>Circulation</i> , 2011, 124, 1645-1653. | 1.6 | 91 |
| 42 | Soluble guanylate cyclase $\alpha 1$ 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 |
| 43 | sGC $\alpha 1$ attenuates cardiac dysfunction and mortality in murine inflammatory shock models. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 297, H654-H663. | 3.2 | 42 |
| 44 | Gender-specific hypertension and responsiveness to nitric oxide in sGC $\alpha 1$ knockout mice. <i>Cardiovascular Research</i> , 2008, 79, 179-186. | 3.8 | 107 |
| 45 | Soluble Guanylate Cyclase $\alpha 1$ Deficiency Selectively Inhibits the Pulmonary Vasodilator Response to Nitric Oxide and Increases the Pulmonary Vascular Remodeling Response to Chronic Hypoxia. <i>Circulation</i> , 2007, 116, 936-943. | 1.6 | 71 |
| 46 | Myocyte-specific overexpression of NOS3 prevents endotoxin-induced myocardial dysfunction in mice. <i>FASEB Journal</i> , 2006, 20, . | 0.5 | 0 |