

Paul J Kemp

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80
papers

3,382
citations

33
h-index

57
g-index

81
ext. papers

3,764
ext. citations

5.6
avg, IF

5.41
L-index

#	Paper	IF	Citations
80	Hemoxygenase-2 is an oxygen sensor for a calcium-sensitive potassium channel. <i>Science</i> , 2004 , 306, 2093-7	33.3	387
79	Induced pluripotent stem cells from patients with Huntington's disease show CAG-repeat-expansion-associated phenotypes. <i>Cell Stem Cell</i> , 2012 , 11, 264-78	18	366
78	Lung organogenesis. <i>Current Topics in Developmental Biology</i> , 2010 , 90, 73-158	5.3	302
77	The calcium-sensing receptor beyond extracellular calcium homeostasis: conception, development, adult physiology, and disease. <i>Annual Review of Physiology</i> , 2012 , 74, 271-97	23.1	110
76	Calcium-sensing receptor antagonists abrogate airway hyperresponsiveness and inflammation in allergic asthma. <i>Science Translational Medicine</i> , 2015 , 7, 284ra60	17.5	104
75	Combined antisense and pharmacological approaches implicate hTASK as an airway O ₂ sensing K(+) channel. <i>Journal of Biological Chemistry</i> , 2001 , 276, 26499-508	5.4	96
74	Carbon monoxide: an emerging regulator of ion channels. <i>Journal of Physiology</i> , 2011 , 589, 3055-62	3.9	95
73	A scaleable and defined system for generating neural stem cells from human embryonic stem cells. <i>Stem Cells</i> , 2007 , 25, 731-7	5.8	95
72	Allele-specific RNA interference rescues the long-QT syndrome phenotype in human-induced pluripotency stem cell cardiomyocytes. <i>European Heart Journal</i> , 2014 , 35, 1078-87	9.5	85
71	Mechanism of inhibition by hydrogen sulfide of native and recombinant BKCa channels. <i>Respiratory Physiology and Neurobiology</i> , 2010 , 172, 169-78	2.8	84
70	Thiazide diuretics directly induce osteoblast differentiation and mineralized nodule formation by interacting with a sodium chloride co-transporter in bone. <i>Journal of the American Society of Nephrology: JASN</i> , 2007 , 18, 2509-16	12.7	82
69	Acute oxygen sensing: diverse but convergent mechanisms in airway and arterial chemoreceptors. <i>Respiratory Research</i> , 2001 , 2, 145-9	7.3	74
68	Hypoxic depolarization of cerebellar granule neurons by specific inhibition of TASK-1. <i>Stroke</i> , 2002 , 33, 2324-8	6.7	66
67	O ₂ sensing by airway chemoreceptor-derived cells. Protein kinase c activation reveals functional evidence for involvement of NADPH oxidase. <i>Journal of Biological Chemistry</i> , 2000 , 275, 7684-92	5.4	66
66	Hydrogen sulfide inhibits human BK(Ca) channels. <i>Advances in Experimental Medicine and Biology</i> , 2009 , 648, 65-72	3.6	62
65	Airway chemotransduction: from oxygen sensor to cellular effector. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2002 , 166, S17-24	10.2	61
64	Environmental signals regulate lineage choice and temporal maturation of neural stem cells from human embryonic stem cells. <i>Brain</i> , 2007 , 130, 1263-75	11.2	53

63	Functional live cell imaging of the pulmonary neuroepithelial body microenvironment. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2008 , 39, 180-9	5.7	50
62	A structural motif in the C-terminal tail of slo1 confers carbon monoxide sensitivity to human BK Ca channels. <i>Pflugers Archiv European Journal of Physiology</i> , 2008 , 456, 561-72	4.6	47
61	Detecting acute changes in oxygen: will the real sensor please stand up?. <i>Experimental Physiology</i> , 2006 , 91, 829-34	2.4	43
60	Purinergic signaling in the pulmonary neuroepithelial body microenvironment unraveled by live cell imaging. <i>FASEB Journal</i> , 2009 , 23, 1153-60	0.9	42
59	Cysteine residue 911 in C-terminal tail of human BK(Ca) channel subunit is crucial for its activation by carbon monoxide. <i>Pflugers Archiv European Journal of Physiology</i> , 2011 , 461, 665-75	4.6	40
58	Hemeoxygenase-2 as an O ₂ sensor in K ⁺ channel-dependent chemotransduction. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 338, 648-52	3.4	40
57	Acute hypoxia occludes hTREK-1 modulation: re-evaluation of the potential role of tandem P domain K ⁺ channels in central neuroprotection. <i>Journal of Physiology</i> , 2003 , 548, 31-7	3.9	39
56	Hypoxic modulation of Ca ²⁺ signaling in human venous endothelial cells. Multiple roles for reactive oxygen species. <i>Journal of Biological Chemistry</i> , 2005 , 280, 13349-54	5.4	38
55	Re-evaluating the Na ⁽⁺⁾ conductance of adult rat alveolar type II pneumocytes: evidence for the involvement of cGMP-activated cation channels. <i>Journal of Physiology</i> , 2001 , 536, 693-701	3.9	38
54	Oxygen sensing by ion channels. <i>Essays in Biochemistry</i> , 2007 , 43, 77-90	7.6	37
53	Forced cell cycle exit and modulation of GABAA, CREB, and GSK3 β signaling promote functional maturation of induced pluripotent stem cell-derived neurons. <i>American Journal of Physiology - Cell Physiology</i> , 2016 , 310, C520-41	5.4	35
52	Creation of an open-access, mutation-defined fibroblast resource for neurological disease research. <i>PLoS ONE</i> , 2012 , 7, e43099	3.7	35
51	Polymodal regulation of hTREK1 by pH, arachidonic acid, and hypoxia: physiological impact in acidosis and alkalosis. <i>American Journal of Physiology - Cell Physiology</i> , 2004 , 286, C272-82	5.4	35
50	Acute oxygen sensing in cellular models: relevance to the physiology of pulmonary neuroepithelial and carotid bodies. <i>The Anatomical Record</i> , 2003 , 270, 41-50		35
49	The extracellular calcium-sensing receptor regulates human fetal lung development via CFTR. <i>Scientific Reports</i> , 2016 , 6, 21975	4.9	35
48	Regulation of mouse lung development by the extracellular calcium-sensing receptor, CaR. <i>Journal of Physiology</i> , 2008 , 586, 6007-19	3.9	34
47	Carbon monoxide is a rapid modulator of recombinant and native P2X(2) ligand-gated ion channels. <i>British Journal of Pharmacology</i> , 2009 , 158, 862-71	8.6	32
46	Lack of contribution of mitochondrial electron transport to acute O(2) sensing in model airway chemoreceptors. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 291, 332-7	3.4	32

45	Novel regulatory aspects of the extracellular Ca ²⁺ -sensing receptor, CaR. <i>Pflugers Archiv European Journal of Physiology</i> , 2009 , 458, 1007-22	4.6	30
44	Improving and accelerating the differentiation and functional maturation of human stem cell-derived neurons: role of extracellular calcium and GABA. <i>Journal of Physiology</i> , 2016 , 594, 6583-6594	3.9	29
43	The carbon monoxide donor, CORM-2, is an antagonist of ATP-gated, human P2X4 receptors. <i>Purinergic Signalling</i> , 2011 , 7, 57-64	3.8	26
42	Post-transcriptional control of human maxiK potassium channel activity and acute oxygen sensitivity by chronic hypoxia. <i>Journal of Biological Chemistry</i> , 2003 , 278, 51422-32	5.4	26
41	Stimulation of GABA-induced Ca ²⁺ influx enhances maturation of human induced pluripotent stem cell-derived neurons. <i>PLoS ONE</i> , 2013 , 8, e81031	3.7	23
40	Medical terminations of pregnancy: a viable source of tissue for cell replacement therapy for neurodegenerative disorders. <i>Cell Transplantation</i> , 2011 , 20, 503-13	4	23
39	Development of a lung slice preparation for recording ion channel activity in alveolar epithelial type I cells. <i>Respiratory Research</i> , 2005 , 6, 40	7.3	20
38	Oxygen sensing by the carotid body: is it all just rotten eggs?. <i>Antioxidants and Redox Signaling</i> , 2014 , 20, 794-804	8.4	19
37	Functional expression of the multimodal extracellular calcium-sensing receptor in pulmonary neuroendocrine cells. <i>Journal of Cell Science</i> , 2013 , 126, 4490-501	5.3	19
36	Ion channel regulation by chronic hypoxia in models of acute oxygen sensing. <i>Cell Calcium</i> , 2004 , 36, 341-8	4	19
35	Huntington's Disease Patient-Derived Astrocytes Display Electrophysiological Impairments and Reduced Neuronal Support. <i>Frontiers in Neuroscience</i> , 2019 , 13, 669	5.1	18
34	Selective modulation of ligand-gated P2X purinoceptor channels by acute hypoxia is mediated by reactive oxygen species. <i>Molecular Pharmacology</i> , 2004 , 66, 1525-35	4.3	18
33	Spectrum of ion channels in alveolar epithelial cells: implications for alveolar fluid balance. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2004 , 287, L460-4	5.8	17
32	Fetal calcium regulates branching morphogenesis in the developing human and mouse lung: involvement of voltage-gated calcium channels. <i>PLoS ONE</i> , 2013 , 8, e80294	3.7	16
31	Aberrant Development Corrected in Adult-Onset Huntington's Disease iPSC-Derived Neuronal Cultures via WNT Signaling Modulation. <i>Stem Cell Reports</i> , 2020 , 14, 406-419	8	15
30	Alveolar epithelial CNGA1 channels mediate cGMP-stimulated, amiloride-insensitive, lung liquid absorption. <i>Pflugers Archiv European Journal of Physiology</i> , 2011 , 462, 267-79	4.6	15
29	Direct modulation of G-proteins by polyunsaturated fatty acids: a novel eicosanoid-independent regulatory mechanism in the developing lung. <i>Biochemical Journal</i> , 1997 , 326 (Pt 3), 725-30	3.8	14
28	Conductive cation transport in apical membrane vesicles prepared from fetal lung. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1994 , 1224, 355-64	4.9	14

27	Enzyme-linked oxygen sensing by potassium channels. <i>Annals of the New York Academy of Sciences</i> , 2009 , 1177, 112-8	6.5	13
26	Chronic hypoxia up-regulates expression of adenosine A1 receptors in DDT1-MF2 cells. <i>Biochemical Pharmacology</i> , 2004 , 67, 421-6	6	13
25	Cysteine residues in the C-terminal tail of the human BK(Ca)alpha subunit are important for channel sensitivity to carbon monoxide. <i>Advances in Experimental Medicine and Biology</i> , 2009 , 648, 49-56	3.6	13
24	Quantitative high-throughput gene expression profiling of human striatal development to screen stem cell-derived medium spiny neurons. <i>Molecular Therapy - Methods and Clinical Development</i> , 2015 , 2, 15030	6.4	11
23	siRNA knock-down of gamma-glutamyl transpeptidase does not affect hypoxic K+ channel inhibition. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 314, 63-8	3.4	11
22	An exon 5-less splice variant of the extracellular calcium-sensing receptor rescues absence of the full-length receptor in the developing mouse lung. <i>Experimental Lung Research</i> , 2011 , 37, 269-78	2.3	10
21	Kv7 channels are upregulated during striatal neuron development and promote maturation of human iPSC-derived neurons. <i>Pflugers Archiv European Journal of Physiology</i> , 2018 , 470, 1359-1376	4.6	9
20	Functional plasticity of the N-methyl-d-aspartate receptor in differentiating human erythroid precursor cells. <i>American Journal of Physiology - Cell Physiology</i> , 2015 , 308, C993-C1007	5.4	9
19	Structural requirements for O2 sensing by the human tandem-P domain channel, hTREK1. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 331, 1253-6	3.4	8
18	Cloning of the human TASK-2 (KCNK5) promoter and its regulation by chronic hypoxia. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 336, 1251-8	3.4	8
17	Enzyme-linked acute oxygen sensing in airway and arterial chemoreceptors--invited article. <i>Advances in Experimental Medicine and Biology</i> , 2009 , 648, 39-48	3.6	6
16	The Role of Kv1.2 Channel in Electrotaxis Cell Migration. <i>Journal of Cellular Physiology</i> , 2016 , 231, 1375-84	5.4	6
15	Spermine attenuates carotid body glomus cell oxygen sensing by inhibiting L-type Ca ²⁺ channels. <i>Respiratory Physiology and Neurobiology</i> , 2011 , 175, 80-9	2.8	5
14	Induced pluripotent stem cells derived from the developing striatum as a potential donor source for cell replacement therapy for Huntington disease. <i>Cytotherapy</i> , 2021 , 23, 111-118	4.8	4
13	O ₂ -Sensing by Model Airway Chemoreceptors. <i>Advances in Experimental Medicine and Biology</i> , 2002 , 611, 362	3.6	3
12	Oxygen sensing by human recombinant large conductance, calcium-activated potassium channels. Regulation by acute hypoxia. <i>Advances in Experimental Medicine and Biology</i> , 2003 , 536, 209-15	3.6	3
11	G protein-coupled prostaglandin receptor modulates conductive Na ⁺ uptake in lung apical membrane vesicles. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1998 , 274, L567-72	5.8	2
10	Effects of the polyamine spermine on arterial chemoreception. <i>Advances in Experimental Medicine and Biology</i> , 2009 , 648, 97-104	3.6	2

9	Characterization of Negative Allosteric Modulators of the Calcium-Sensing Receptor for Repurposing as a Treatment of Asthma. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2021 , 376, 51-63	4.7	2
8	In Search of the Acute Oxygen Sensor 2006 , 137-146		2
7	Oxygen sensing by human recombinant tandem-P domain potassium channels. <i>Advances in Experimental Medicine and Biology</i> , 2003 , 536, 201-8	3.6	2
6	Assessment of oxygen sensing by model airway and arterial chemoreceptors. <i>Methods in Enzymology</i> , 2004 , 381, 3-25	1.7	1
5	Oxygen sensing by human recombinant K ⁺ channels: assessment of the use of stable cell lines. <i>Methods in Enzymology</i> , 2004 , 381, 257-74	1.7	1
4	Fatty acid modulation and sequence identity of fetal guinea pig alveolar type II cell amiloride-sensitive Na ⁺ channel. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 288, 727-35	3.4	1
3	Functional Interactions between BK-Subunit and Annexin A5: Implications in Apoptosis. <i>Oxidative Medicine and Cellular Longevity</i> , 2016 , 2016, 1607092	6.7	1
2	Hypoxic regulation of Ca ²⁺ signalling in astrocytes and endothelial cells. <i>Advances in Experimental Medicine and Biology</i> , 2006 , 580, 185-90; discussion 351-9	3.6	
1	Oxygen sensing by human recombinant large conductance, calcium-activated potassium channels. Regulation by chronic hypoxia. <i>Advances in Experimental Medicine and Biology</i> , 2003 , 536, 573-81	3.6	