Alexander G Obukhov

List of Publications by Year
in descending order

65	4,767	159525 30	143943 57
papers	citations	h-index	g-index

65	65	65	4433
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Direct activation of human TRPC6 and TRPC3 channels by diacylglycerol. Nature, 1999, 397, 259-263.	13.7	1,375
2	Cloning and Functional Expression of a Human Ca2+-Permeable Cation Channel Activated by Calcium Store Depletion. Neuron, 1996, 16, 1189-1196.	3.8	382
3	Receptor-mediated Regulation of the Nonselective Cation Channels TRPC4 and TRPC5. Journal of Biological Chemistry, 2000, 275, 17517-17526.	1.6	372
4	Expression of TRPC3 in Chinese Hamster Ovary Cells Results in Calcium-activated Cation Currents Not Related to Store Depletion. Journal of Cell Biology, 1997, 138, 1333-1341.	2.3	249
5	TLR4 activation of TRPC6-dependent calcium signaling mediates endotoxin-induced lung vascular permeability and inflammation. Journal of Experimental Medicine, 2012, 209, 1953-1968.	4.2	191
6	Cationic channels activated by extracellular atp in rat sensory neurons. Neuroscience, 1988, 27, 995-1000.	1.1	160
7	Small Molecule Activators of TRPML3. Chemistry and Biology, 2010, 17, 135-148.	6.2	105
8	Primary cilia signaling mediates intraocular pressure sensation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12871-12876.	3.3	102
9	Induction of Calcium Influx through TRPC5 Channels by Cross-Linking of GM1 Ganglioside Associated with Î±5Î²1 Integrin Initiates Neurite Outgrowth. Journal of Neuroscience, 2007, 27, 7447-7458.	1.7	100
10	Transient Receptor Potential Canonical (TRPC) Channels: Then and Now. Cells, 2020, 9, 1983.	1.8	88
11	Receptors for ATP in rat sensory neurones: the structureâ€function relationship for ligands. British Journal of Pharmacology, 1988, 95, 1057-1062.	2.7	85
12	TheDrosophilacation channeltrplexpressed in insectSf9cells is stimulated by agonists of G-protein-coupled receptors. FEBS Letters, 1995, 358, 297-300.	1.3	80
13	Exercise training decreases store-operated Ca2+entry associated with metabolic syndrome and coronary atherosclerosis. Cardiovascular Research, 2010, 85, 631-640.	1.8	80
14	TRPC5 activation kinetics are modulated by the scaffolding protein ezrin/radixin/moesin-binding phosphoprotein-50 (EBP50). Journal of Cellular Physiology, 2004, 201, 227-235.	2.0	77
15	A Cytosolic Residue Mediates Mg2+ Block and Regulates Inward Current Amplitude of a Transient Receptor Potential Channel. Journal of Neuroscience, 2005, 25, 1234-1239.	1.7	69
16	TRPC4 Can Be Activated by G-protein-coupled Receptors and Provides Sufficient Ca2+ to Trigger Exocytosis in Neuroendocrine Cells. Journal of Biological Chemistry, 2002, 277, 16172-16178.	1.6	68
17	Bone Marrow-Derived Cells Restore Functional Integrity of the Gut Epithelial and Vascular Barriers in a Model of Diabetes and ACE2 Deficiency. Circulation Research, 2019, 125, 969-988.	2.0	67
18	NMDA receptor agonists selectively block N-type calcium channels in hippocampal neurons. Nature, 1991, 349, 418-420.	13.7	65

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19	Human SLC4A11 Is a Novel NH3/H+ Co-transporter. Journal of Biological Chemistry, 2015, 290, 16894-16905.	1.6	64
20	SARS-CoV-2 Infections and ACE2: Clinical Outcomes Linked With Increased Morbidity and Mortality in Individuals With Diabetes. Diabetes, 2020, 69, 1875-1886.	0.3	61
21	ACE2 (Angiotensin-Converting Enzyme 2) in Cardiopulmonary Diseases. Hypertension, 2020, 76, 651-661.	1.3	57
22	In Vivo Identification and Manipulation of the Ca2+ Selectivity Filter in the Drosophila Transient Receptor Potential Channel. Journal of Neuroscience, 2007, 27, 604-615.	1.7	52
23	Endothelial Cellâ€“Specific Deletion of P2Y ₂ Receptor Promotes Plaque Stability in Atherosclerosis-Susceptible ApoE-Null Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 75-83.	1.1	47
24	Calbindin-D28k decreases L-type calcium channel activity and modulates intracellular calcium homeostasis in response to K+ depolarization in a rat beta cell line RINr1046-38. Cell Calcium, 2006, 39, 475-485.	1.1	45
25	CFTR Regulation of Intracellular pH and Ceramides Is Required for Lung Endothelial Cell Apoptosis. American Journal of Respiratory Cell and Molecular Biology, 2009, 41, 314-323.	1.4	45
26	Loss of Angiotensin-Converting Enzyme 2 Exacerbates Diabetic Retinopathy by Promoting Bone Marrow Dysfunction. Stem Cells, 2018, 36, 1430-1440.	1.4	43
27	Canonical Transient Receptor Potential Channels Expression Is Elevated in a Porcine Model of Metabolic Syndrome. Molecular Endocrinology, 2009, 23, 689-699.	3.7	42
28	Furanocoumarins Are a Novel Class of Modulators for the Transient Receptor Potential Vanilloid Type 1 (TRPV1) Channel. Journal of Biological Chemistry, 2014, 289, 9600-9610.	1.6	37
29	Long-term spironolactone treatment reduces coronary TRPC expression, vasoconstriction, and atherosclerosis in metabolic syndrome pigs. Basic Research in Cardiology, 2017, 112, 54.	2.5	33
30	Regulation of heterologously expressed transient receptor potential-like channels by calcium ions. Neuroscience, 1998, 85, 487-495.	1.1	31
31	New insights into the function and regulation of vitamin D target proteins. Journal of Steroid Biochemistry and Molecular Biology, 2007, 103, 405-410.	1.2	31
32	TRPC5 channels undergo changes in gating properties during the activationâ€deactivation cycle. Journal of Cellular Physiology, 2008, 216, 162-171.	2.0	31
33	Mechanisms controlling neurite outgrowth in a pheochromocytoma cell line: The role of TRPC channels. Journal of Cellular Physiology, 2012, 227, 1408-1419.	2.0	30
34	Constitutive Activity of TRPML2 and TRPML3 Channels versus Activation by Low Extracellular Sodium and Small Molecules. Journal of Biological Chemistry, 2012, 287, 22701-22708.	1.6	29
35	Altered calcium signaling in colonic smooth muscle of type 1 diabetic mice. American Journal of Physiology - Renal Physiology, 2012, 302, G66-G76.	1.6	27
36	Bromoenol Lactone Inhibits Voltage-Gated Ca²⁺and Transient Receptor Potential Canonical Channels. Journal of Pharmacology and Experimental Therapeutics, 2011, 339, 329-340.	1.3	26

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37	Constitutive Activity of TRPML2 and TRPML3 Channels versus Activation by Low Extracellular Sodium and Small Molecules. Journal of Biological Chemistry, 2012, 287, 22701-22708.	1.6	26
38	Human microRNA (miR-20b-5p) modulates Alzheimerâ€™s disease pathways and neuronal function, and a specific polymorphism close to the MIR20B gene influences Alzheimerâ€™s biomarkers. Molecular Psychiatry, 2022, 27, 1256-1273.	4.1	26
39	Molecular Determinants of the Sensitivity to Gq/11-Phospholipase C-dependent Gating, Gd3+ Potentiation, and Ca2+ Permeability in the Transient Receptor Potential Canonical Type 5 (TRPC5) Channel. Journal of Biological Chemistry, 2017, 292, 898-911.	1.6	24
40	Capsaicin and TRPV1 Channels in the Cardiovascular System: The Role of Inflammation. Cells, 2022, 11, 18.	1.8	23
41	The TRPC6 inhibitor, larixyl acetate, is effective in protecting against traumatic brain injury-induced systemic endothelial dysfunction. Journal of Neuroinflammation, 2019, 16, 21.	3.1	22
42	The Potential Role of Osteopontin and Furin in Worsening Disease Outcomes in COVID-19 Patients with Pre-Existing Diabetes. Cells, 2020, 9, 2528.	1.8	22
43	HIV-Nef Protein Transfer to Endothelial Cells Requires Rac1 Activation and Leads to Endothelial Dysfunction Implications for Statin Treatment in HIV Patients. Circulation Research, 2019, 125, 805-820.	2.0	20
44	Contribution of electromechanical coupling between KV and CaV1.2 channels to coronary dysfunction in obesity. Basic Research in Cardiology, 2013, 108, 370.	2.5	19
45	Small-molecule Ca _V Î± ₁ â‹…Ca _V Î² antagonist suppresses neuronal voltage-gated calcium-channel trafficking. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E10566-E10575.	3.3	19
46	Catechol estrogens stimulate insulin secretion in pancreatic Î²-cells via activation of the transient receptor potential A1 (TRPA1) channel. Journal of Biological Chemistry, 2019, 294, 2935-5880.	1.6	19
47	R125H, W240S, C386R, and V507I SLC4A11 mutations associated with corneal endothelial dystrophy affect the transporter function but not trafficking in PS120 cells. Experimental Eye Research, 2019, 180, 86-91.	1.2	18
48	PKC-dependent Phosphorylation of the H1 Histamine Receptor Modulates TRPC6 Activity. Cells, 2014, 3, 247-257.	1.8	15
49	Mechanisms underlying capsaicin effects in canine coronary artery: implications for coronary spasm. Cardiovascular Research, 2014, 103, 607-618.	1.8	14
50	Novel Roles for Kv7 Channels in Shaping Histamine-Induced Contractions and Bradykinin-Dependent Relaxations in Pig Coronary Arteries. PLoS ONE, 2016, 11, e0148569.	1.1	14
51	Phenylephrine, a common cold remedy active ingredient, suppresses uterine contractions through cAMP signalling. Scientific Reports, 2018, 8, 11666.	1.6	13
52	Protein kinase CÎ± modulates depolarizaton-evoked changes of intracellular Ca2+ concentration in a rat pheochromocytoma cell line. Neuroscience, 2005, 133, 393-403.	1.1	9
53	Expression of GPR30 and GPR43 in oral tissues: deriving new hypotheses on the role of diet in animal physiology and the development of oral cancers. Journal of Animal Physiology and Animal Nutrition, 2011, 95, 280-285.	1.0	7
54	Long-Term Diabetic Microenvironment Augments the Decay Rate of Capsaicin-Induced Currents in Mouse Dorsal Root Ganglion Neurons. Molecules, 2019, 24, 775.	1.7	7

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55	Bis(adenosyl-5â€²)tetraphosphate as a partial agonist of ATP receptors in rat sensory neurons. Neurophysiology, 1988, 20, 305-308.	0.2	1
56	Ex Vivo Method for Assessing the Mouse Reproductive Tract Spontaneous Motility and a MATLAB-based Uterus Motion Tracking Algorithm for Data Analysis. Journal of Visualized Experiments, 2019, , .	0.2	1
57	Transient Receptor Potential Canonical Channels in Health and Disease: A 2020 Update. Cells, 2021, 10, 496.	1.8	1
58	Expression Level of Canonical Transient Receptor Potential (TRPC) Channels is Increased in the Adrenal Medulla of Ossabaw Miniature Pigs Manifesting the Metabolic Syndrome. FASEB Journal, 2008, 22, 1201.14.	0.2	1
59	Effect of adenosine-5?-0-(?, ?-dichloromethane) triphosphate on ATP receptors in rat sensory neurons. Bulletin of Experimental Biology and Medicine, 1988, 106, 947-948.	0.3	0
60	Voltage-gated K+ (KV) channels expressed in canine coronary artery. Journal of Molecular and Cellular Cardiology, 2007, 42, S16.	0.9	0
61	Contribution of Cav1.2 Channels to Coronary Microvascular Dysfunction in Metabolic Syndrome. FASEB Journal, 2012, 26, 860.16.	0.2	0
62	TLR4 activation of TRPC6-dependent calcium signaling mediates endotoxin-induced lung vascular permeability and inflammation. Journal of General Physiology, 2012, 140, i9-i9.	0.9	0
63	TLR4 activation of TRPC6-dependent calcium signaling mediates endotoxin-induced lung vascular permeability and inflammation. Journal of Cell Biology, 2012, 199, i2-i2.	2.3	0
64	Transient Receptor Potential Channels in Metabolic Syndrome-Induced Coronary Artery Disease. , 2016, , 381-396.		0
65	Myosin Light Chain Kinaseâ€210 Induces ERâ€PM Junctions and STIM1 Puncta Formation to Augment Storeâ€Operated Ca 2+ Entry. FASEB Journal, 2018, 32, 865.1.	0.2	0