

David E Clapham

List of Publications by Year in descending order

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248
papers

52,026
citations

1713

107
h-index

1551

223
g-index

266
all docs

266
docs citations

266
times ranked

41958
citing authors

#	ARTICLE	IF	CITATIONS
1	Calcium Signaling. Cell, 2007, 131, 1047-1058.	13.5	3,538
2	TRP channels as cellular sensors. Nature, 2003, 426, 517-524.	13.7	2,380
3	Calcium signaling. Cell, 1995, 80, 259-268.	13.5	2,346
4	AN INTRODUCTION TO TRP CHANNELS. Annual Review of Physiology, 2006, 68, 619-647.	5.6	1,378
5	The mitochondrial calcium uniporter is a highly selective ion channel. Nature, 2004, 427, 360-364.	13.7	1,217
6	The $\hat{1}^2\hat{1}^3$ subunits of GTP-binding proteins activate the muscarinic K ⁺ channel in heart. Nature, 1987, 325, 321-326.	13.7	1,173
7	The trp ion channel family. Nature Reviews Neuroscience, 2001, 2, 387-396.	4.9	1,020
8	Roles of G protein subunits in transmembrane signalling. Nature, 1988, 333, 129-134.	13.7	839
9	A sperm ion channel required for sperm motility and male fertility. Nature, 2001, 413, 603-609.	13.7	833
10	TRPV3 is a calcium-permeable temperature-sensitive cation channel. Nature, 2002, 418, 181-186.	13.7	795
11	G PROTEIN $\hat{1}^2\hat{1}^3$ SUBUNITS. Annual Review of Pharmacology and Toxicology, 1997, 37, 167-203.	4.2	791
12	TRPC6 is a glomerular slit diaphragm-associated channel required for normal renal function. Nature Genetics, 2005, 37, 739-744.	9.4	747
13	International Union of Pharmacology: Approaches to the Nomenclature of Voltage-Gated Ion Channels. Pharmacological Reviews, 2003, 55, 573-574.	7.1	742
14			

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19	A voltage-gated proton-selective channel lacking the pore domain. <i>Nature</i> , 2006, 440, 1213-1216.	13.7	546
20	EMRE Is an Essential Component of the Mitochondrial Calcium Uniporter Complex. <i>Science</i> , 2013, 342, 1379-1382.	6.0	537
21	Developmental Origin of a Bipotential Myocardial and Smooth Muscle Cell Precursor in the Mammalian Heart. <i>Cell</i> , 2006, 127, 1137-1150.	13.5	504
22	International Union of Basic and Clinical Pharmacology. LXXVI. Current Progress in the Mammalian TRP Ion Channel Family. <i>Pharmacological Reviews</i> , 2010, 62, 381-404.	7.1	502
23	Rapid vesicular translocation and insertion of TRP channels. <i>Nature Cell Biology</i> , 2004, 6, 709-720.	4.6	497
24	The TRPM7 channel is inactivated by PIP2 hydrolysis. <i>Nature Cell Biology</i> , 2002, 4, 329-336.	4.6	483
25	Genome-Wide RNAi Screen Identifies Letm1 as a Mitochondrial Ca ²⁺ /H ⁺ Antiporter. <i>Science</i> , 2009, 326, 144-147.	6.0	470
26	A Prokaryotic Voltage-Gated Sodium Channel. <i>Science</i> , 2001, 294, 2372-2375.	6.0	461
27	TPC Proteins Are Phosphoinositide- Activated Sodium-Selective Ion Channels in Endosomes and Lysosomes. <i>Cell</i> , 2012, 151, 372-383.	13.5	456
28	All four CatSper ion channel proteins are required for male fertility and sperm cell hyperactivated motility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 1219-1223.	3.3	455
29	Recombinant G-protein $\beta\gamma$ -subunits activate the muscarinic-gated atrial potassium channel. <i>Nature</i> , 1994, 368, 255-257.	13.7	452
30	Crystal structure of an orthologue of the NaChBac voltage-gated sodium channel. <i>Nature</i> , 2012, 486, 130-134.	13.7	439
31	G-protein $\beta\gamma$ -subunits activate the cardiac muscarinic K ⁺ -channel via phospholipase A2. <i>Nature</i> , 1989, 337, 557-560.	13.7	438
32	Primary cilia are specialized calcium signalling organelles. <i>Nature</i> , 2013, 504, 311-314.	13.7	429
33	Inositol 1,3,4,5-tetrakisphosphate activates an endothelial Ca ²⁺ -permeable channel. <i>Nature</i> , 1992, 355, 356-358.	13.7	419
34	Whole-cell patch-clamp measurements of spermatozoa reveal an alkaline-activated Ca ²⁺ channel. <i>Nature</i> , 2006, 439, 737-740.	13.7	403
35	The NMDA Receptor Is Coupled to the ERK Pathway by a Direct Interaction between NR2B and RasGRF1. <i>Neuron</i> , 2003, 40, 775-784.	3.8	394
36	Deletion of <i>Trpm7</i> Disrupts Embryonic Development and Thymopoiesis Without Altering Mg ²⁺ Homeostasis. <i>Science</i> , 2008, 322, 756-760.	6.0	379

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37	Formation of Novel TRPC Channels by Complex Subunit Interactions in Embryonic Brain. <i>Journal of Biological Chemistry</i> , 2003, 278, 39014-39019.	1.6	370
38	Molecular mechanisms of intracellular calcium excitability in <i>X. laevis</i> oocytes. <i>Cell</i> , 1992, 69, 283-294.	13.5	369
39	Phosphatidylinositol 3-Kinase Activates ERK in Primary Sensory Neurons and Mediates Inflammatory Heat Hyperalgesia through TRPV1 Sensitization. <i>Journal of Neuroscience</i> , 2004, 24, 8300-8309.	1.7	368
40	International Union of Pharmacology. XLIX. Nomenclature and Structure-Function Relationships of Transient Receptor Potential Channels. <i>Pharmacological Reviews</i> , 2005, 57, 427-450.	7.1	365
41	International Union of Pharmacology. XLI. Compendium of Voltage-Gated Ion Channels: Potassium Channels. <i>Pharmacological Reviews</i> , 2003, 55, 583-586.	7.1	358
42	CatSper1 required for evoked Ca ²⁺ entry and control of flagellar function in sperm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 14864-14868.	3.3	357
43	Abnormal Heart Rate Regulation in GIRK4 Knockout Mice. <i>Neuron</i> , 1998, 20, 103-114.	3.8	355
44	Ion Channels – Basic Science and Clinical Disease. <i>New England Journal of Medicine</i> , 1997, 336, 1575-1586.	13.9	354
45	TRPC5 is a regulator of hippocampal neurite length and growth cone morphology. <i>Nature Neuroscience</i> , 2003, 6, 837-845.	7.1	344
46	New mammalian chloride channel identified by expression cloning. <i>Nature</i> , 1992, 356, 238-241.	13.7	343
47	Camphor Activates and Strongly Desensitizes the Transient Receptor Potential Vanilloid Subtype 1 Channel in a Vanilloid-Independent Mechanism. <i>Journal of Neuroscience</i> , 2005, 25, 8924-8937.	1.7	340
48	Rheotaxis Guides Mammalian Sperm. <i>Current Biology</i> , 2013, 23, 443-452.	1.8	338
49	CaT1 manifests the pore properties of the calcium-release-activated calcium channel. <i>Nature</i> , 2001, 410, 705-709.	13.7	336
50	mTOR Regulates Lysosomal ATP-Sensitive Two-Pore Na ⁺ Channels to Adapt to Metabolic State. <i>Cell</i> , 2013, 152, 778-790.	13.5	313
51	TRP ion channels in the nervous system. <i>Current Opinion in Neurobiology</i> , 2004, 14, 362-369.	2.0	301
52	Primary cilia are not calcium-responsive mechanosensors. <i>Nature</i> , 2016, 531, 656-660.	13.7	300
53	TRPV4 Is a Regulator of Adipose Oxidative Metabolism, Inflammation, and Energy Homeostasis. <i>Cell</i> , 2012, 151, 96-110.	13.5	292
54	A voltage-gated ion channel expressed specifically in spermatozoa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 12527-12531.	3.3	291

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55	The Control of Male Fertility by Spermatozoan Ion Channels. <i>Annual Review of Physiology</i> , 2012, 74, 453-475.	5.6	291
56	TRP Channel Regulates EGFR Signaling in Hair Morphogenesis and Skin Barrier Formation. <i>Cell</i> , 2010, 141, 331-343.	13.5	287
57	THE CONCISE GUIDE TO PHARMACOLOGY 2017/18: Overview. <i>British Journal of Pharmacology</i> , 2017, 174, S1-S16.	2.7	269
58	Direct recording and molecular identification of the calcium channel of primary cilia. <i>Nature</i> , 2013, 504, 315-318.	13.7	268
59	SynGAP-MUPP1-CaMKII Synaptic Complexes Regulate p38 MAP Kinase Activity and NMDA Receptor-Dependent Synaptic AMPA Receptor Potentiation. <i>Neuron</i> , 2004, 43, 563-574.	3.8	254
60	Essential Role for TRPC5 in Amygdala Function and Fear-Related Behavior. <i>Cell</i> , 2009, 137, 761-772.	13.5	245
61	International Union of Pharmacology. LIV. Nomenclature and Molecular Relationships of Inwardly Rectifying Potassium Channels. <i>Pharmacological Reviews</i> , 2005, 57, 509-526.	7.1	240
62	Evaluation of the role of IKACHin atrial fibrillation using a mouse knockout model. <i>Journal of the American College of Cardiology</i> , 2001, 37, 2136-2143.	1.2	234
63	Hv1 proton channels are required for high-level NADPH oxidase-dependent superoxide production during the phagocyte respiratory burst. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 7642-7647.	3.3	234
64	Melanopsin signalling in mammalian iris and retina. <i>Nature</i> , 2011, 479, 67-73.	13.7	234
65	International Union of Pharmacology. XLIII. Compendium of Voltage-Gated Ion Channels: Transient Receptor Potential Channels. <i>Pharmacological Reviews</i> , 2003, 55, 591-596.	7.1	227
66	Functional TRPM7 Channels Accumulate at the Plasma Membrane in Response to Fluid Flow. <i>Circulation Research</i> , 2006, 98, 245-253.	2.0	227
67	The Concise Guide to PHARMACOLOGY 2015/16: Overview. <i>British Journal of Pharmacology</i> , 2015, 172, 5729-5743.	2.7	220
68	G α 13 Binds Directly to the G Protein-gated K ⁺ Channel, IKACH. <i>Journal of Biological Chemistry</i> , 1995, 270, 29059-29062.	1.6	214
69	The Structure of the Polycystic Kidney Disease Channel PKD2 in Lipid Nanodiscs. <i>Cell</i> , 2016, 167, 763-773.e11.	13.5	214
70	A thermodynamic framework for understanding temperature sensing by transient receptor potential (TRP) channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 19492-19497.	3.3	211
71	Structurally Distinct Ca ²⁺ Signaling Domains of Sperm Flagella Orchestrate Tyrosine Phosphorylation and Motility. <i>Cell</i> , 2014, 157, 808-822.	13.5	210
72	NMDA receptors amplify calcium influx into dendritic spines during associative pre- and postsynaptic activation. <i>Nature Neuroscience</i> , 1998, 1, 114-118.	7.1	208

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73	The voltage-gated proton channel Hv1 enhances brain damage from ischemic stroke. <i>Nature Neuroscience</i> , 2012, 15, 565-573.	7.1	207
74	Molecular characterization of a swelling-induced chloride conductance regulatory protein, pICln. <i>Cell</i> , 1994, 76, 439-448.	13.5	206
75	Subcellular patterns of calcium release determined by G protein-specific residues of muscarinic receptors. <i>Nature</i> , 1991, 350, 505-508.	13.7	204
76	CACNA1H Mutations in Autism Spectrum Disorders. <i>Journal of Biological Chemistry</i> , 2006, 281, 22085-22091.	1.6	201
77	KSper, a pH-sensitive K ⁺ current that controls sperm membrane potential. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 7688-7692.	3.3	199
78	Calcium release from the nucleus by InsP3 receptor channels. <i>Neuron</i> , 1995, 14, 163-167.	3.8	194
79	Transient receptor potential cation channel, subfamily C, member 5 (TRPC5) is a cold-transducer in the peripheral nervous system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 18114-18119.	3.3	192
80	Activating mutation in a mucolipin transient receptor potential channel leads to melanocyte loss in varintã€waddler mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18321-18326.	3.3	188
81	The TRPM7 Ion Channel Functions in Cholinergic Synaptic Vesicles and Affects Transmitter Release. <i>Neuron</i> , 2006, 52, 485-496.	3.8	186
82	Cloning of a <i>Xenopus laevis</i> Inwardly Rectifying K ⁺ Channel Subunit That Permits GIRK1 Expression of IKACH Currents in Oocytes. <i>Neuron</i> , 1996, 16, 423-429.	3.8	180
83	Mammalian <i>MagT1</i> and <i>TUSC3</i> are required for cellular magnesium uptake and vertebrate embryonic development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 15750-15755.	3.3	175
84	A Novel Inward Rectifier K ⁺ Channel with Unique Pore Properties. <i>Neuron</i> , 1998, 20, 995-1005.	3.8	170
85	A novel gene required for male fertility and functional CATSPER channel formation in spermatozoa. <i>Nature Communications</i> , 2011, 2, 153.	5.8	169
86	Replenishing the stores. <i>Nature</i> , 1995, 375, 634-635.	13.7	168
87	TRPM1 Forms Ion Channels Associated with Melanin Content in Melanocytes. <i>Science Signaling</i> , 2009, 2, ra21.	1.6	164
88	An aqueous H ⁺ permeation pathway in the voltage-gated proton channel Hv1. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 869-875.	3.6	160
89	MCU encodes the pore conducting mitochondrial calcium currents. <i>ELife</i> , 2013, 2, e00704.	2.8	156
90	The channel kinase, <i>TRPM7</i> , is required for early embryonic development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E225-33.	3.3	153

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91	Phenotyping sensory nerve endings in vitro in the mouse. <i>Nature Protocols</i> , 2009, 4, 174-196.	5.5	152
92	Molecular dynamics of ion transport through the open conformation of a bacterial voltage-gated sodium channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6364-6369.	3.3	149
93	CatSper ¹ , a Novel Transmembrane Protein in the CatSper Channel Complex. <i>Journal of Biological Chemistry</i> , 2007, 282, 18945-18952.	1.6	148
94	A Superfamily of Voltage-gated Sodium Channels in Bacteria*. <i>Journal of Biological Chemistry</i> , 2004, 279, 9532-9538.	1.6	147
95	The TRPM7 Chanzyme Is Cleaved to Release a Chromatin-Modifying Kinase. <i>Cell</i> , 2014, 157, 1061-1072.	13.5	147
96	The Cation Selectivity Filter of the Bacterial Sodium Channel, NaChBac. <i>Journal of General Physiology</i> , 2002, 120, 845-853.	0.9	141
97	Cleavage of TRPM7 Releases the Kinase Domain from the Ion Channel and Regulates Its Participation in Fas-Induced Apoptosis. <i>Developmental Cell</i> , 2012, 22, 1149-1162.	3.1	132
98	CatSper ¹ regulates the structural continuity of sperm Ca ²⁺ signaling domains and is required for normal fertility. <i>ELife</i> , 2017, 6, .	2.8	131
99	Bisandrographolide from <i>Andrographis paniculata</i> Activates TRPV4 Channels. <i>Journal of Biological Chemistry</i> , 2006, 281, 29897-29904.	1.6	130
100	Intracellular calcium strongly potentiates agonist-activated TRPC5 channels. <i>Journal of General Physiology</i> , 2009, 133, 525-546.	0.9	128
101	Calbindin-D28K dynamically controls TRPV5-mediated Ca ²⁺ transport. <i>EMBO Journal</i> , 2006, 25, 2978-2988.	3.5	125
102	Polycystin-2 is an essential ion channel subunit in the primary cilium of the renal collecting duct epithelium. <i>ELife</i> , 2018, 7, .	2.8	125
103	SnapShot: Mammalian TRP Channels. <i>Cell</i> , 2007, 129, 220.e1-220.e2.	13.5	124
104	Ion channels that control fertility in mammalian spermatozoa. <i>International Journal of Developmental Biology</i> , 2008, 52, 607-613.	0.3	123
105	Functional reconstitution of the mitochondrial Ca ²⁺ /H ⁺ antiporter Letm1. <i>Journal of General Physiology</i> , 2014, 143, 67-73.	0.9	122
106	Prokaryotic NavMs channel as a structural and functional model for eukaryotic sodium channel antagonism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8428-8433.	3.3	120
107	Molecular Determinants for Subcellular Localization of PSD-95 with an Interacting K ⁺ Channel. <i>Neuron</i> , 1999, 23, 149-157.	3.8	119
108	The G-protein nanomachine. <i>Nature</i> , 1996, 379, 297-299.	13.7	117

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109	Not So Funny Anymore. <i>Neuron</i> , 1998, 21, 5-7.	3.8	114
110	Brain Localization and Behavioral Impact of the G-Protein-Gated K ⁺ Channel Subunit GIRK4. <i>Journal of Neuroscience</i> , 2000, 20, 5608-5615.	1.7	112
111	Targeted Cytosolic Delivery of Cell-Impermeable Compounds by Nanoparticle-Mediated, Light-Triggered Endosome Disruption. <i>Nano Letters</i> , 2010, 10, 2211-2219.	4.5	110
112	Letm1, the mitochondrial Ca ²⁺ /H ⁺ antiporter, is essential for normal glucose metabolism and alters brain function in Wolf-Hirschhorn syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E2249-54.	3.3	110
113	Number and Stoichiometry of Subunits in the Native Atrial G-protein-gated K ⁺ Channel, IKACH. <i>Journal of Biological Chemistry</i> , 1998, 273, 5271-5278.	1.6	107
114	The voltage-gated Na ⁺ channel NaVBP has a role in motility, chemotaxis, and pH homeostasis of an alkaliphilic <i>Bacillus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 10566-10571.	3.3	105
115	Citral Sensing by Transient Receptor Potential Channels in Dorsal Root Ganglion Neurons. <i>PLoS ONE</i> , 2008, 3, e2082.	1.1	101
116	Structure of the mouse TRPC4 ion channel. <i>Nature Communications</i> , 2018, 9, 3102.	5.8	101
117	Structure of the mammalian TRPM7, a magnesium channel required during embryonic development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8201-E8210.	3.3	101
118	Specificity of receptor-G protein interactions: Searching for the structure behind the signal. <i>Cellular Signalling</i> , 1993, 5, 505-518.	1.7	100
119	Ion channel-kinase TRPM7 is required for maintaining cardiac automaticity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E3037-46.	3.3	99
120	Nucleoplasmic and cytoplasmic differences in the fluorescence properties of the calcium indicator Fluo-3. <i>Cell Calcium</i> , 1997, 21, 275-282.	1.1	97
121	Functional and Biochemical Evidence for G-protein-gated Inwardly Rectifying K ⁺ (GIRK) Channels Composed of GIRK2 and GIRK3. <i>Journal of Biological Chemistry</i> , 2000, 275, 36211-36216.	1.6	96
122	POST, partner of stromal interaction molecule 1 (STIM1), targets STIM1 to multiple transporters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 19234-19239.	3.3	96
123	TRPM7 facilitates cholinergic vesicle fusion with the plasma membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 8304-8308.	3.3	95
124	Molecular basis of ion permeability in a voltage-gated sodium channel. <i>EMBO Journal</i> , 2016, 35, 820-830.	3.5	95
125	Timing of Myocardial Trpm7 Deletion During Cardiogenesis Variably Disrupts Adult Ventricular Function, Conduction, and Repolarization. <i>Circulation</i> , 2013, 128, 101-114.	1.6	94
126	pICln Inhibits snRNP Biogenesis by Binding Core Spliceosomal Proteins. <i>Molecular and Cellular Biology</i> , 1999, 19, 4113-4120.	1.1	92

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127	Evolutionary Genomics Reveals Lineage-Specific Gene Loss and Rapid Evolution of a Sperm-Specific Ion Channel Complex: CatSper ¹ and CatSper ² . PLoS ONE, 2008, 3, e3569.	1.1	92
128	Real-Time Imaging of Nuclear Permeation by EGFP in Single Intact Cells. Biophysical Journal, 2003, 84, 1317-1327.	0.2	91
129	Conformational Changes of the in Situ Nuclear Pore Complex. Biophysical Journal, 1999, 77, 241-247.	0.2	90
130	Identification of Native Atrial G-protein-regulated Inwardly Rectifying K ⁺ (GIRK4) Channel Homomultimers. Journal of Biological Chemistry, 1998, 273, 27499-27504.	1.6	89
131	Ancestral Ca ²⁺ Signaling Machinery in Early Animal and Fungal Evolution. Molecular Biology and Evolution, 2012, 29, 91-100.	3.5	89
132	TRPM7 senses oxidative stress to release Zn ²⁺ from unique intracellular vesicles. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E6079-E6088.	3.3	89
133	Caspase-11 Controls Interleukin-1 β Release through Degradation of TRPC1. Cell Reports, 2014, 6, 1122-1128.	2.9	86
134	Calcium waves. Current Opinion in Neurobiology, 1993, 3, 375-382.	2.0	84
135	The K ⁺ channel inward rectifier subunits form a channel similar to neuronal G protein-gated K ⁺ channel. FEBS Letters, 1996, 379, 31-37.	1.3	84
136	Decreased Anxiety-Like Behavior and G β q/11-Dependent Responses in the Amygdala of Mice Lacking TRPC4 Channels. Journal of Neuroscience, 2014, 34, 3653-3667.	1.7	84
137	Mitochondrial calcium uniporter regulator 1 (MCUR1) regulates the calcium threshold for the mitochondrial permeability transition. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E1872-80.	3.3	83
138	Fundamental Ca ²⁺ Signaling Mechanisms in Mouse Dendritic Cells: CRAC Is the Major Ca ²⁺ Entry Pathway. Journal of Immunology, 2001, 166, 6126-6133.	0.4	82
139	G-protein regulation of ion channels. Current Opinion in Neurobiology, 1995, 5, 278-285.	2.0	81
140	TRP Is Cracked but Is CRAC TRP?. Neuron, 1996, 16, 1069-1072.	3.8	80
141	G β 3 Binding to GIRK4 Subunit Is Critical for G Protein-gated K ⁺ Channel Activation. Journal of Biological Chemistry, 1998, 273, 16946-16952.	1.6	79
142	Evidence for Direct Physical Association between a K ⁺ Channel (Kir6.2) and an ATP-Binding Cassette Protein (SUR1) Which Affects Cellular Distribution and Kinetic Behavior of an ATP-Sensitive K ⁺ Channel. Molecular and Cellular Biology, 1998, 18, 1652-1659.	1.1	79
143	Detailed comparison of expressed and native voltage-gated proton channel currents. Journal of Physiology, 2008, 586, 2477-2486.	1.3	78
144	Structure of full-length human TRPM4. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2377-2382.	3.3	77

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145	The G Protein $\beta\gamma$ Subunit Transduces the Muscarinic Receptor Signal for Ca^{2+} Release in <i>Xenopus</i> Oocytes. <i>Journal of Biological Chemistry</i> , 1995, 270, 30068-30074.	1.6	76
146	GIRK4 Confers Appropriate Processing and Cell Surface Localization to G-protein-gated Potassium Channels. <i>Journal of Biological Chemistry</i> , 1999, 274, 2571-2582.	1.6	76
147	Chloride channels in the nuclear membrane. <i>Journal of Membrane Biology</i> , 1991, 123, 49-54.	1.0	75
148	Mutations in G protein-linked receptors: Novel insights on disease. <i>Cell</i> , 1993, 75, 1237-1239.	13.5	74
149	TRPM7, the Mg^{2+} Inhibited Channel and Kinase. <i>Advances in Experimental Medicine and Biology</i> , 2011, 704, 173-183.	0.8	72
150	Role of the C-terminal domain in the structure and function of tetrameric sodium channels. <i>Nature Communications</i> , 2013, 4, 2465.	5.8	71
151	The G-protein-gated K^{+} channel, <i>hKACH</i> , is required for regulation of pacemaker activity and recovery of resting heart rate after sympathetic stimulation. <i>Journal of General Physiology</i> , 2013, 142, 113-126.	0.9	69
152	Cryo-EM structure of TRPC5 at 2.8-Å... resolution reveals unique and conserved structural elements essential for channel function. <i>Science Advances</i> , 2019, 5, eaaw7935.	4.7	69
153	Simultaneous knockout of <i>Slo3</i> and <i>CatSper1</i> abolishes all alkalization- and voltage-activated current in mouse spermatozoa. <i>Journal of General Physiology</i> , 2013, 142, 305-313.	0.9	65
154	Nuclear calcium and the regulation of the nuclear pore complex. <i>BioEssays</i> , 1997, 19, 787-792.	1.2	64
155	TRPV3 Channels Mediate Strontium-Induced Mouse-Egg Activation. <i>Cell Reports</i> , 2013, 5, 1375-1386.	2.9	61
156	A Spontaneous, Recurrent Mutation in Divalent Metal Transporter-1 Exposes a Calcium Entry Pathway. <i>PLoS Biology</i> , 2004, 2, e50.	2.6	60
157	Development of electrical coupling and action potential synchrony between paired aggregates of embryonic heart cells. <i>Journal of Membrane Biology</i> , 1979, 51, 75-96.	1.0	59
158	Calcium regulation of nuclear pore permeability. <i>Cell Calcium</i> , 1998, 23, 91-101.	1.1	58
159	Perspective: The List of Potential Volume-sensitive Chloride Currents Continues to Swell (and Shrink). <i>Journal of General Physiology</i> , 1998, 111, 623-624.	0.9	58
160	Sorting out MIC, TRP, and CRAC Ion Channels. <i>Journal of General Physiology</i> , 2002, 120, 217-220.	0.9	58
161	Calcium release and influx colocalize to the endoplasmic reticulum. <i>Current Biology</i> , 1997, 7, 599-602.	1.8	57
162	pICln Binds to a Mammalian Homolog of a Yeast Protein Involved in Regulation of Cell Morphology. <i>Journal of Biological Chemistry</i> , 1998, 273, 10811-10814.	1.6	57

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