

David E Clapham

List of Publications by Year in descending order

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248
papers

52,026
citations

1463
107
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1347
223
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266
all docs

266
docs citations

266
times ranked

37944
citing authors

#	ARTICLE	IF	CITATIONS
1	Calcium Signaling. Cell, 2007, 131, 1047-1058.	28.9	3,538
2	TRP channels as cellular sensors. Nature, 2003, 426, 517-524.	27.8	2,380
3	Calcium signaling. Cell, 1995, 80, 259-268.	28.9	2,346
4	AN INTRODUCTION TO TRP CHANNELS. Annual Review of Physiology, 2006, 68, 619-647.	13.1	1,378
5	The mitochondrial calcium uniporter is a highly selective ion channel. Nature, 2004, 427, 360-364.	27.8	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.	27.8	1,173
7	The trp ion channel family. Nature Reviews Neuroscience, 2001, 2, 387-396.	10.2	1,020
8	Roles of G protein subunits in transmembrane signalling. Nature, 1988, 333, 129-134.	27.8	839
9	A sperm ion channel required for sperm motility and male fertility. Nature, 2001, 413, 603-609.	27.8	833
10	TRPV3 is a calcium-permeable temperature-sensitive cation channel. Nature, 2002, 418, 181-186.	27.8	795
11	G PROTEIN $\hat{1}^2\hat{1}^3$ SUBUNITS. Annual Review of Pharmacology and Toxicology, 1997, 37, 167-203.	9.4	791
12	TRPC6 is a glomerular slit diaphragm-associated channel required for normal renal function. Nature Genetics, 2005, 37, 739-744.	21.4	747
13	International Union of Pharmacology: Approaches to the Nomenclature of Voltage-Gated Ion Channels. Pharmacological Reviews, 2003, 55, 573-574.	16.0	742
14			

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19	A voltage-gated proton-selective channel lacking the pore domain. <i>Nature</i> , 2006, 440, 1213-1216.	27.8	546
20	EMRE Is an Essential Component of the Mitochondrial Calcium Uniporter Complex. <i>Science</i> , 2013, 342, 1379-1382.	12.6	537
21	Developmental Origin of a Bipotential Myocardial and Smooth Muscle Cell Precursor in the Mammalian Heart. <i>Cell</i> , 2006, 127, 1137-1150.	28.9	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.	16.0	502
23	Rapid vesicular translocation and insertion of TRP channels. <i>Nature Cell Biology</i> , 2004, 6, 709-720.	10.3	497
24	The TRPM7 channel is inactivated by PIP2 hydrolysis. <i>Nature Cell Biology</i> , 2002, 4, 329-336.	10.3	483
25	Genome-Wide RNAi Screen Identifies Letm1 as a Mitochondrial Ca ²⁺ /H ⁺ Antiporter. <i>Science</i> , 2009, 326, 144-147.	12.6	470
26	A Prokaryotic Voltage-Gated Sodium Channel. <i>Science</i> , 2001, 294, 2372-2375.	12.6	461
27	TPC Proteins Are Phosphoinositide- Activated Sodium-Selective Ion Channels in Endosomes and Lysosomes. <i>Cell</i> , 2012, 151, 372-383.	28.9	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.	7.1	455
29	Recombinant G-protein $\beta\gamma$ -subunits activate the muscarinic-gated atrial potassium channel. <i>Nature</i> , 1994, 368, 255-257.	27.8	452
30	Crystal structure of an orthologue of the NaChBac voltage-gated sodium channel. <i>Nature</i> , 2012, 486, 130-134.	27.8	439
31	G-protein $\beta\gamma$ -subunits activate the cardiac muscarinic K ⁺ -channel via phospholipase A2. <i>Nature</i> , 1989, 337, 557-560.	27.8	438
32	Primary cilia are specialized calcium signalling organelles. <i>Nature</i> , 2013, 504, 311-314.	27.8	429
33	Inositol 1,3,4,5-tetrakisphosphate activates an endothelial Ca ²⁺ -permeable channel. <i>Nature</i> , 1992, 355, 356-358.	27.8	419
34	Whole-cell patch-clamp measurements of spermatozoa reveal an alkaline-activated Ca ²⁺ channel. <i>Nature</i> , 2006, 439, 737-740.	27.8	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.	8.1	394
36	Deletion of <i>Trpm7</i> Disrupts Embryonic Development and Thymopoiesis Without Altering Mg ²⁺ Homeostasis. <i>Science</i> , 2008, 322, 756-760.	12.6	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.	3.4	370
38	Molecular mechanisms of intracellular calcium excitability in <i>X. laevis</i> oocytes. <i>Cell</i> , 1992, 69, 283-294.	28.9	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.	3.6	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.	16.0	365
41	International Union of Pharmacology. XLI. Compendium of Voltage-Gated Ion Channels: Potassium Channels. <i>Pharmacological Reviews</i> , 2003, 55, 583-586.	16.0	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.	7.1	357
43	Abnormal Heart Rate Regulation in GIRK4 Knockout Mice. <i>Neuron</i> , 1998, 20, 103-114.	8.1	355
44	Ion Channels â€” Basic Science and Clinical Disease. <i>New England Journal of Medicine</i> , 1997, 336, 1575-1586.	27.0	354
45	TRPC5 is a regulator of hippocampal neurite length and growth cone morphology. <i>Nature Neuroscience</i> , 2003, 6, 837-845.	14.8	344
46	New mammalian chloride channel identified by expression cloning. <i>Nature</i> , 1992, 356, 238-241.	27.8	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.	3.6	340
48	Rheotaxis Guides Mammalian Sperm. <i>Current Biology</i> , 2013, 23, 443-452.	3.9	338
49	CaT1 manifests the pore properties of the calcium-release-activated calcium channel. <i>Nature</i> , 2001, 410, 705-709.	27.8	336
50	mTOR Regulates Lysosomal ATP-Sensitive Two-Pore Na ⁺ Channels to Adapt to Metabolic State. <i>Cell</i> , 2013, 152, 778-790.	28.9	313
51	TRP ion channels in the nervous system. <i>Current Opinion in Neurobiology</i> , 2004, 14, 362-369.	4.2	301
52	Primary cilia are not calcium-responsive mechanosensors. <i>Nature</i> , 2016, 531, 656-660.	27.8	300
53	TRPV4 Is a Regulator of Adipose Oxidative Metabolism, Inflammation, and Energy Homeostasis. <i>Cell</i> , 2012, 151, 96-110.	28.9	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.	7.1	291

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55	The Control of Male Fertility by Spermatozoan Ion Channels. Annual Review of Physiology, 2012, 74, 453-475.	13.1	291
56	TRP Channel Regulates EGFR Signaling in Hair Morphogenesis and Skin Barrier Formation. Cell, 2010, 141, 331-343.	28.9	287
57	THE CONCISE GUIDE TO PHARMACOLOGY 2017/18: Overview. British Journal of Pharmacology, 2017, 174, S1-S16.	5.4	269
58	Direct recording and molecular identification of the calcium channel of primary cilia. Nature, 2013, 504, 315-318.	27.8	268
59	SynGAP-MUPP1-CaMKII Synaptic Complexes Regulate p38 MAP Kinase Activity and NMDA Receptor-Dependent Synaptic AMPA Receptor Potentiation. Neuron, 2004, 43, 563-574.	8.1	254
60	Essential Role for TRPC5 in Amygdala Function and Fear-Related Behavior. Cell, 2009, 137, 761-772.	28.9	245
61	International Union of Pharmacology. LIV. Nomenclature and Molecular Relationships of Inwardly Rectifying Potassium Channels. Pharmacological Reviews, 2005, 57, 509-526.	16.0	240
62	Evaluation of the role of IKACHin atrial fibrillation using a mouse knockout model. Journal of the American College of Cardiology, 2001, 37, 2136-2143.	2.8	234
63	Hv1 proton channels are required for high-level NADPH oxidase-dependent superoxide production during the phagocyte respiratory burst. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7642-7647.	7.1	234
64	Melanopsin signalling in mammalian iris and retina. Nature, 2011, 479, 67-73.	27.8	234
65	International Union of Pharmacology. XLIII. Compendium of Voltage-Gated Ion Channels: Transient Receptor Potential Channels. Pharmacological Reviews, 2003, 55, 591-596.	16.0	227
66	Functional TRPM7 Channels Accumulate at the Plasma Membrane in Response to Fluid Flow. Circulation Research, 2006, 98, 245-253.	4.5	227
67	The Concise Guide to PHARMACOLOGY 2015/16: Overview. British Journal of Pharmacology, 2015, 172, 5729-5743.	5.4	220
68	G α 13 Binds Directly to the G Protein-gated K ⁺ Channel, IKACH. Journal of Biological Chemistry, 1995, 270, 29059-29062.	3.4	214
69	The Structure of the Polycystic Kidney Disease Channel PKD2 in Lipid Nanodiscs. Cell, 2016, 167, 763-773.e11.	28.9	214
70	A thermodynamic framework for understanding temperature sensing by transient receptor potential (TRP) channels. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19492-19497.	7.1	211
71	Structurally Distinct Ca ²⁺ Signaling Domains of Sperm Flagella Orchestrate Tyrosine Phosphorylation and Motility. Cell, 2014, 157, 808-822.	28.9	210
72	NMDA receptors amplify calcium influx into dendritic spines during associative pre- and postsynaptic activation. Nature Neuroscience, 1998, 1, 114-118.	14.8	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.	14.8	207
74	Molecular characterization of a swelling-induced chloride conductance regulatory protein, pICln. <i>Cell</i> , 1994, 76, 439-448.	28.9	206
75	Subcellular patterns of calcium release determined by G protein-specific residues of muscarinic receptors. <i>Nature</i> , 1991, 350, 505-508.	27.8	204
76	CACNA1H Mutations in Autism Spectrum Disorders. <i>Journal of Biological Chemistry</i> , 2006, 281, 22085-22091.	3.4	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.	7.1	199
78	Calcium release from the nucleus by InsP3 receptor channels. <i>Neuron</i> , 1995, 14, 163-167.	8.1	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.	7.1	192
80	Activating mutation in a mucolipin transient receptor potential channel leads to melanocyte loss in varietal waddler mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18321-18326.	7.1	188
81	The TRPM7 Ion Channel Functions in Cholinergic Synaptic Vesicles and Affects Transmitter Release. <i>Neuron</i> , 2006, 52, 485-496.	8.1	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.	8.1	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.	7.1	175
84	A Novel Inward Rectifier K ⁺ Channel with Unique Pore Properties. <i>Neuron</i> , 1998, 20, 995-1005.	8.1	170
85	A novel gene required for male fertility and functional CATSPER channel formation in spermatozoa. <i>Nature Communications</i> , 2011, 2, 153.	12.8	169
86	Replenishing the stores. <i>Nature</i> , 1995, 375, 634-635.	27.8	168
87	TRPM1 Forms Ion Channels Associated with Melanin Content in Melanocytes. <i>Science Signaling</i> , 2009, 2, ra21.	3.6	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.	8.2	160
89	MCU encodes the pore conducting mitochondrial calcium currents. <i>ELife</i> , 2013, 2, e00704.	6.0	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.	7.1	153

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91	Phenotyping sensory nerve endings in vitro in the mouse. <i>Nature Protocols</i> , 2009, 4, 174-196.	12.0	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.	7.1	149
93	CatSper ¹ , a Novel Transmembrane Protein in the CatSper Channel Complex. <i>Journal of Biological Chemistry</i> , 2007, 282, 18945-18952.	3.4	148
94	A Superfamily of Voltage-gated Sodium Channels in Bacteria*. <i>Journal of Biological Chemistry</i> , 2004, 279, 9532-9538.	3.4	147
95	The TRPM7 Chanzyme Is Cleaved to Release a Chromatin-Modifying Kinase. <i>Cell</i> , 2014, 157, 1061-1072.	28.9	147
96	The Cation Selectivity Filter of the Bacterial Sodium Channel, NaChBac. <i>Journal of General Physiology</i> , 2002, 120, 845-853.	1.9	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.	7.0	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, .	6.0	131
99	Bisandrographolide from <i>Andrographis paniculata</i> Activates TRPV4 Channels. <i>Journal of Biological Chemistry</i> , 2006, 281, 29897-29904.	3.4	130
100	Intracellular calcium strongly potentiates agonist-activated TRPC5 channels. <i>Journal of General Physiology</i> , 2009, 133, 525-546.	1.9	128
101	Calbindin-D28K dynamically controls TRPV5-mediated Ca ²⁺ transport. <i>EMBO Journal</i> , 2006, 25, 2978-2988.	7.8	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, .	6.0	125
103	SnapShot: Mammalian TRP Channels. <i>Cell</i> , 2007, 129, 220.e1-220.e2.	28.9	124
104	Ion channels that control fertility in mammalian spermatozoa. <i>International Journal of Developmental Biology</i> , 2008, 52, 607-613.	0.6	123
105	Functional reconstitution of the mitochondrial Ca ²⁺ /H ⁺ antiporter Letm1. <i>Journal of General Physiology</i> , 2014, 143, 67-73.	1.9	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.	7.1	120
107	Molecular Determinants for Subcellular Localization of PSD-95 with an Interacting K ⁺ Channel. <i>Neuron</i> , 1999, 23, 149-157.	8.1	119
108	The G-protein nanomachine. <i>Nature</i> , 1996, 379, 297-299.	27.8	117

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109	Not So Funny Anymore. <i>Neuron</i> , 1998, 21, 5-7.	8.1	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.	3.6	112
111	Targeted Cytosolic Delivery of Cell-Impermeable Compounds by Nanoparticle-Mediated, Light-Triggered Endosome Disruption. <i>Nano Letters</i> , 2010, 10, 2211-2219.	9.1	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.	7.1	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.	3.4	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.	7.1	105
115	Citral Sensing by TRANSient Receptor Potential Channels in Dorsal Root Ganglion Neurons. <i>PLoS ONE</i> , 2008, 3, e2082.	2.5	101
116	Structure of the mouse TRPC4 ion channel. <i>Nature Communications</i> , 2018, 9, 3102.	12.8	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.	7.1	101
118	Specificity of receptor-G protein interactions: Searching for the structure behind the signal. <i>Cellular Signalling</i> , 1993, 5, 505-518.	3.6	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.	7.1	99
120	Nucleoplasmic and cytoplasmic differences in the fluorescence properties of the calcium indicator Fluo-3. <i>Cell Calcium</i> , 1997, 21, 275-282.	2.4	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.	3.4	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.	7.1	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.	7.1	95
124	Molecular basis of ion permeability in a voltage-gated sodium channel. <i>EMBO Journal</i> , 2016, 35, 820-830.	7.8	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.	2.3	92

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127	Evolutionary Genomics Reveals Lineage-Specific Gene Loss and Rapid Evolution of a Sperm-Specific Ion Channel Complex: CatSper and CatSperl ² . PLoS ONE, 2008, 3, e3569.	2.5	92
128	Real-Time Imaging of Nuclear Permeation by EGFP in Single Intact Cells. Biophysical Journal, 2003, 84, 1317-1327.	0.5	91
129	Conformational Changes of the in Situ Nuclear Pore Complex. Biophysical Journal, 1999, 77, 241-247.	0.5	90
130	Identification of Native Atrial G-protein-regulated Inwardly Rectifying K ⁺ (GIRK4) Channel Homomultimers. Journal of Biological Chemistry, 1998, 273, 27499-27504.	3.4	89
131	Ancestral Ca ²⁺ Signaling Machinery in Early Animal and Fungal Evolution. Molecular Biology and Evolution, 2012, 29, 91-100.	8.9	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.	7.1	89
133	Caspase-11 Controls Interleukin-1 β Release through Degradation of TRPC1. Cell Reports, 2014, 6, 1122-1128.	6.4	86
134	Calcium waves. Current Opinion in Neurobiology, 1993, 3, 375-382.	4.2	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.	2.8	84
136	Decreased Anxiety-Like Behavior and G $\alpha_{q/11}$ -Dependent Responses in the Amygdala of Mice Lacking TRPC4 Channels. Journal of Neuroscience, 2014, 34, 3653-3667.	3.6	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.	7.1	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.	0.8	82
139	G-protein regulation of ion channels. Current Opinion in Neurobiology, 1995, 5, 278-285.	4.2	81
140	TRP Is Cracked but Is CRAC TRP?. Neuron, 1996, 16, 1069-1072.	8.1	80
141	G $\beta\gamma$ Binding to GIRK4 Subunit Is Critical for G Protein-gated K ⁺ Channel Activation. Journal of Biological Chemistry, 1998, 273, 16946-16952.	3.4	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.	2.3	79
143	Detailed comparison of expressed and native voltage-gated proton channel currents. Journal of Physiology, 2008, 586, 2477-2486.	2.9	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.	7.1	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.	3.4	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.	3.4	76
147	Chloride channels in the nuclear membrane. <i>Journal of Membrane Biology</i> , 1991, 123, 49-54.	2.1	75
148	Mutations in G protein-linked receptors: Novel insights on disease. <i>Cell</i> , 1993, 75, 1237-1239.	28.9	74
149	TRPM7, the Mg^{2+} Inhibited Channel and Kinase. <i>Advances in Experimental Medicine and Biology</i> , 2011, 704, 173-183.	1.6	72
150	Role of the C-terminal domain in the structure and function of tetrameric sodium channels. <i>Nature Communications</i> , 2013, 4, 2465.	12.8	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.	1.9	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.	10.3	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.	1.9	65
154	Nuclear calcium and the regulation of the nuclear pore complex. <i>BioEssays</i> , 1997, 19, 787-792.	2.5	64
155	TRPV3 Channels Mediate Strontium-Induced Mouse-Egg Activation. <i>Cell Reports</i> , 2013, 5, 1375-1386.	6.4	61
156	A Spontaneous, Recurrent Mutation in Divalent Metal Transporter-1 Exposes a Calcium Entry Pathway. <i>PLoS Biology</i> , 2004, 2, e50.	5.6	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.	2.1	59
158	Calcium regulation of nuclear pore permeability. <i>Cell Calcium</i> , 1998, 23, 91-101.	2.4	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.	1.9	58
160	Sorting out MIC, TRP, and CRAC Ion Channels. <i>Journal of General Physiology</i> , 2002, 120, 217-220.	1.9	58
161	Calcium release and influx colocalize to the endoplasmic reticulum. <i>Current Biology</i> , 1997, 7, 599-602.	3.9	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.	3.4	57

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163	A Switch Mechanism for $G\beta\gamma$ Activation of IKCh. Journal of Biological Chemistry, 2000, 275, 29709-29716.	3.4	55
164	Calpain cleaves and activates the TRPC5 channel to participate in semaphorin 3A-induced neuronal growth cone collapse. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7888-7892.	7.1	55
165	Controlled delivery of bioactive molecules into live cells using the bacterial mechanosensitive channel MscL. Nature Communications, 2012, 3, 990.	12.8	54
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