Byung-Chang Suh

List of Publications by Year
in descending order

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53	3,613	430874	243625
papers	citations	18 h-index	44 g-index

55	55	55	3578
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	PIP₂Is a Necessary Cofactor for Ion Channel Function:<scp>How</scp>and Why?. Annual Review of Biophysics, 2008, 37, 175-195.	10.0	582
2	Rapid Chemically Induced Changes of PtdIns(4,5)P2 Gate KCNQ Ion Channels. Science, 2006, 314, 1454-1457.	12.6	457
3	Recovery from Muscarinic Modulation of M Current Channels Requires Phosphatidylinositol 4,5-Bisphosphate Synthesis. Neuron, 2002, 35, 507-520.	8.1	444
4	Regulation of ion channels by phosphatidylinositol 4,5-bisphosphate. Current Opinion in Neurobiology, 2005, 15, 370-378.	4.2	408
5	Phospholipase C in Living Cells. Journal of General Physiology, 2005, 126, 243-262.	1.9	291
6	Phosphoinositides regulate ion channels. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2015, 1851, 844-856.	2.4	264
7	SYMPOSIUM REVIEW: Phosphoinositides: lipid regulators of membrane proteins. Journal of Physiology, 2010, 588, 3179-3185.	2.9	190
8	Modulation of High-Voltage Activated Ca2+ Channels by Membrane Phosphatidylinositol 4,5-Bisphosphate. Neuron, 2010, 67, 224-238.	8.1	139
9	Regulation of KCNQ2/KCNQ3 Current by G Protein Cycling. Journal of General Physiology, 2004, 123, 663-683.	1.9	118
10	Acid-sensing ion channels (ASICs): therapeutic targets for neurological diseases and their regulation. BMB Reports, 2013, 46, 295-304.	2.4	85
11	Electrostatic Interaction of Internal Mg2+ with Membrane PIP2 Seen with KCNQ K+ Channels. Journal of General Physiology, 2007, 130, 241-256.	1.9	79
12	Regulation of KCNQ channels by manipulation of phosphoinositides. Journal of Physiology, 2007, 582, 911-916.	2.9	66
13	Membrane-localized Î²-subunits alter the PIP ₂ regulation of high-voltage activated Ca ²⁺ channels. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 3161-3166.	7.1	66
14	Compartmentalization of phosphatidylinositol 4,5-bisphosphate metabolism into plasma membrane liquid-ordered/raft domains. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	39
15	Cholesterol modulates ion channels via downâ€regulation of phosphatidylinositol 4,5â€bisphosphate. Journal of Neurochemistry, 2010, 112, 1286-1294.	3.9	38
16	Phosphoinositide 5- and 3-phosphatase activities of a voltage-sensing phosphatase in living cells show identical voltage dependence. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3686-95.	7.1	35
17	Voltage-dependent regulation of CaV2.2 channels by Gq-coupled receptor is facilitated by membrane-localized Î² subunit. Journal of General Physiology, 2014, 144, 297-309.	1.9	31
18	Potentiation of PGE2-mediated cAMP production during neuronal differentiation of human neuroblastoma SK-N-BE(2)C cells. Journal of Neurochemistry, 2008, 79, 303-310.	3.9	25

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19	Molecular Basis of the Membrane Interaction of the Î²2e Subunit of Voltage-Gated Ca2+ Channels. Biophysical Journal, 2015, 109, 922-935.	0.5	20
20	Phosphatidylinositol 4,5-bisphosphate is regenerated by speeding of the PI 4-kinase pathway during long PLC activation. Journal of General Physiology, 2020, 152, .	1.9	20
21	Intracellular Membrane Association of the Aplysia cAMP Phosphodiesterase Long and Short Forms via Different Targeting Mechanisms. Journal of Biological Chemistry, 2014, 289, 25797-25811.	3.4	18
22	Does diacylglycerol regulate KCNQ channels?. Pflugers Archiv European Journal of Physiology, 2006, 453, 293-301.	2.8	17
23	Allosteric modulation of alternatively spliced Ca²⁺-activated Cl^{â^'}channels TMEM16A by PI(4,5)P₂and CaMKII. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30787-30798.	7.1	17
24	Selective Activation of hTRPV1 by N-Geranyl Cyclopropylcarboxamide, an Amiloride-Insensitive Salt Taste Enhancer. PLoS ONE, 2014, 9, e89062.	2.5	14
25	Dynamic phospholipid interaction of Î²2e subunit regulates the gating of voltage-gated Ca2+ channels. Journal of General Physiology, 2015, 145, 529-541.	1.9	14
26	Differential Regulation of Proton-Sensitive Ion Channels by Phospholipids: A Comparative Study between ASICs and TRPV1. PLoS ONE, 2015, 10, e0122014.	2.5	13
27	Proprioception, the regulator of motor function. BMB Reports, 2021, 54, 393-402.	2.4	12
28	Dual Regulation of R-Type CaV2.3 Channels by M1 Muscarinic Receptors. Molecules and Cells, 2016, 39, 322-329.	2.6	12
29	The HOOK region of voltage-gated Ca2+ channel Î² subunits senses and transmits PIP2 signals to the gate. Journal of General Physiology, 2017, 149, 261-276.	1.9	11
30	Five hTRPA1 Agonists Found in Indigenous Korean Mint, Agastache rugosa. PLoS ONE, 2015, 10, e0127060.	2.5	11
31	Acid-Sensing Ion Channel 2a (ASIC2a) Promotes Surface Trafficking of ASIC2b via Heteromeric Assembly. Scientific Reports, 2016, 6, 30684.	3.3	10
32	Differential Regulation of Ca2+-Activated Clâ^' Channel TMEM16A Splice Variants by Membrane PI(4,5)P2. International Journal of Molecular Sciences, 2021, 22, 4088.	4.1	9
33	Ca ²⁺ controls gating of voltage-gated calcium channels by releasing the Î²2e subunit from the plasma membrane. Science Signaling, 2016, 9, ra67.	3.6	8
34	Ethanol Elevates Excitability of Superior Cervical Ganglion Neurons by Inhibiting Kv7 Channels in a Cell Type-Specific and PI(4,5)P2-Dependent Manner. International Journal of Molecular Sciences, 2019, 20, 4419.	4.1	7
35	ASIC2a-dependent increase of ASIC3 surface expression enhances the sustained component of the currents. BMB Reports, 2016, 49, 542-547.	2.4	6
36	Posttranscriptional modulation of KCNQ2 gene expression by the miR-106b microRNA family. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	6

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37	Analysis of Phosphoinositideâ€Binding Properties and Subcellular Localization of GFPâ€Fusion Proteins. Lipids, 2015, 50, 427-436.	1.7	5
38	Differential interaction of Î²2e with phosphoinositides: A comparative study between Î²2e and MARCKS. Channels, 2016, 10, 238-246.	2.8	5
39	Translocatable voltage-gated Ca ²⁺ channel Î² subunits in Î±1â€“Î² complexes reveal competitive replacement yet no spontaneous dissociation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9934-E9943.	7.1	5
40	Biophysical physiology of phosphoinositide rapid dynamics and regulation in living cells. Journal of General Physiology, 2022, 154, .	1.9	5
41	The HOOK region of Î² subunits controls gating of voltage-gated Ca2+ channels by electrostatically interacting with plasma membrane. Channels, 2017, 11, 467-475.	2.8	4
42	Modulation mechanisms of voltage-gated calcium channels. Current Opinion in Physiology, 2018, 2, 77-83.	1.8	4
43	Ethanol inhibits Kv7.2/7.3 channel open probability by reducing the PI(4,5)P₂ sensitivity of Kv7.2 subunit. BMB Reports, 2021, 54, 311-316.	2.4	2
44	Rapid resensitization of ASIC2a is conferred by three amino acid residues in the N terminus. Journal of General Physiology, 2019, 151, 944-953.	1.9	1
45	Probing Phosphoinositide Kinetics With A Voltage-sensitive Phosphatase. Biophysical Journal, 2009, 96, 95a.	0.5	0
46	Electrostatic Association of Beta-Subunits to Membrane Reduces the PIP2 Sensitivity of Ca2+ Channels. Biophysical Journal, 2013, 104, 461a.	0.5	0
47	Irreversible Binding of Ca2+ Channel Î² Subunit to Î±1B Revealed by Chemically-Inducible Dimerization System. Biophysical Journal, 2014, 106, 544a.	0.5	0
48	Membrane Phosphoinositide Turnover by Voltage Sensing Phosphatases. Biophysical Journal, 2014, 106, 514a.	0.5	0
49	PI(4,5)P 2 and L-type Ca 2+ Channels Partner Up toÂFine-Tune Ca 2+ Dynamics in Î² Cells. Cell Chemical Biology, 2016, 23, 753-755.	5.2	0
50	Stable Interaction between Voltage-Activated Ca 2+ Channel Î±1 and Î² Subunits Revealed by Translocatable Î² Systems. Biophysical Journal, 2017, 112, 244a.	0.5	0
51	Molecular Mechanism of Voltage-Gated Ca2+ Channel Regulation by Membrane PIP2. Biophysical Journal, 2018, 114, 638a.	0.5	0
52	Ethanol Increases Neuronal Firing by Regulating PI(4,5)P2 Sensitivity of M-Type K+ Channels. Biophysical Journal, 2018, 114, 121a.	0.5	0
53	Electrostatic Interaction of Internal Mg²⁺with Membrane PIP2 Seen with KCNQ K⁺Channels. Journal of Cell Biology, 2007, 178, i14-i14.	5.2	0