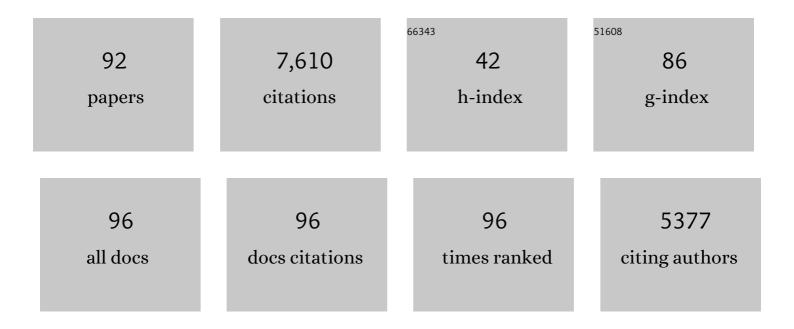
Diomedes E Logothetis

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The βγ subunits of GTP-binding proteins activate the muscarinic K+ channel in heart. Nature, 1987, 325, 321-326.	27.8	1,173
2	PI(4,5)P2 regulates the activation and desensitization of TRPM8 channels through the TRP domain. Nature Neuroscience, 2005, 8, 626-634.	14.8	535
3	PIP2 Activates KCNQ Channels, and Its Hydrolysis Underlies Receptor-Mediated Inhibition of M Currents. Neuron, 2003, 37, 963-975.	8.1	474
4	Activation of inwardly rectifying K+ channels by distinct PtdIns(4,5)P2 interactions. Nature Cell Biology, 1999, 1, 183-188.	10.3	444
5	Alterations in Conserved Kir Channel-PIP2 Interactions Underlie Channelopathies. Neuron, 2002, 34, 933-944.	8.1	368
6	Decoding the Signaling of a GPCR Heteromeric Complex Reveals a Unifying Mechanism of Action of Antipsychotic Drugs. Cell, 2011, 147, 1011-1023.	28.9	271
7	A region of adenylyl cyclase 2 critical for regulation by G protein beta gamma subunits. Science, 1995, 268, 1166-1169.	12.6	261
8	Receptor-mediated hydrolysis of plasma membrane messenger PIP2 leads to K+-current desensitization. Nature Cell Biology, 2000, 2, 507-514.	10.3	219
9	Specificity of activation by phosphoinositides determines lipid regulation of Kir channels. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 745-750.	7.1	206
10	Distinct Specificities of Inwardly Rectifying K+Channels for Phosphoinositides. Journal of Biological Chemistry, 1999, 274, 36065-36072.	3.4	179
11	PIP2hydrolysis underlies agonist-induced inhibition and regulates voltage gating of two-pore domain K+channels. Journal of Physiology, 2005, 564, 117-129.	2.9	164
12	Characteristic Interactions with Phosphatidylinositol 4,5-Bisphosphate Determine Regulation of Kir Channels by Diverse Modulators. Journal of Biological Chemistry, 2004, 279, 37271-37281.	3.4	162
13	Probing the G-protein Regulation of GIRK1 and GIRK4, the Two Subunits of the KACh Channel, Using Functional Homomeric Mutants. Journal of Biological Chemistry, 1997, 272, 31553-31560.	3.4	149
14	Incremental reductions of positive charge within the S4 region of a voltage-gated K+ channel result in corresponding decreases in gating charge. Neuron, 1992, 8, 531-540.	8.1	142
15	Identification of a Potassium Channel Site That Interacts with G Protein βγ Subunits to Mediate Agonist-induced Signaling. Journal of Biological Chemistry, 1999, 274, 12517-12524.	3.4	106
16	Phosphoinositide-mediated gating of inwardly rectifying K+ channels. Pflugers Archiv European Journal of Physiology, 2007, 455, 83-95.	2.8	106
17	Identification of Critical Residues Controlling G Protein-gated Inwardly Rectifying K+ Channel Activity through Interactions with the βγ Subunits of G Proteins. Journal of Biological Chemistry, 2002, 277, 6088-6096.	3.4	92
18	Allosteric signaling through an mGlu2 and 5-HT _{2A} heteromeric receptor complex and its potential contribution to schizophrenia. Science Signaling, 2016, 9, ra5.	3.6	91

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19	Channelopathies linked to plasma membrane phosphoinositides. Pflugers Archiv European Journal of Physiology, 2010, 460, 321-341.	2.8	87
20	Synergistic Activation of G Protein–Gated Inwardly Rectifying Potassium Channels by the βγ Subunits of G Proteins and Na+ and Mg2+ Ions. Journal of General Physiology, 1999, 114, 673-684.	1.9	84
21	PIP ₂ controls voltage-sensor movement and pore opening of Kv channels through the S4–S5 linker. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E2399-408.	7.1	84
22	Phosphoinositide Control of Membrane Protein Function: A Frontier Led by Studies on Ion Channels. Annual Review of Physiology, 2015, 77, 81-104.	13.1	84
23	Phosphoinositides Regulate P2X ₄ ATP-Gated Channels through Direct Interactions. Journal of Neuroscience, 2008, 28, 12938-12945.	3.6	78
24	Molecular characteristics of phosphoinositide binding. Pflugers Archiv European Journal of Physiology, 2007, 455, 45-53.	2.8	73
25	Essential Control of the Function of the Striatopallidal Neuron by Pre-coupled Complexes of Adenosine A2A-Dopamine D2 Receptor Heterotetramers and Adenylyl Cyclase. Frontiers in Pharmacology, 2018, 9, 243.	3.5	73
26	Phosphatidylinositol-4,5-bisphosphate regulates epidermal growth factor receptor activation. Pflugers Archiv European Journal of Physiology, 2011, 461, 387-397.	2.8	71
27	The RCK2 Domain Uses a Coordination Site Present in Kir Channels to Confer Sodium Sensitivity to Slo2.2 Channels. Journal of Neuroscience, 2010, 30, 7554-7562.	3.6	60
28	Epilepsy-Related Slack Channel Mutants Lead to Channel Over-Activity by Two Different Mechanisms. Cell Reports, 2016, 14, 129-139.	6.4	60
29	Selective phosphorylation modulates the PIP2 sensitivity of the CaM–SK channel complex. Nature Chemical Biology, 2014, 10, 753-759.	8.0	59
30	Specific Regions of Heteromeric Subunits Involved in Enhancement of G Protein-gated K+ Channel Activity. Journal of Biological Chemistry, 1997, 272, 6548-6555.	3.4	54
31	Protein Kinase A Modulates PLC-Dependent Regulation and PIP ₂ -Sensitivity of K ⁺ Channels. Channels, 2007, 1, 124-134.	2.8	53
32	The Molecular Mechanism by which PIP2 Opens the Intracellular G-Loop Gate of a Kir3.1 Channel. Biophysical Journal, 2012, 102, 2049-2059.	0.5	53
33	Gating charge differences between two voltagegated K+ channels are due to the specific charge content of their respective S4 regions. Neuron, 1993, 10, 1121-1129.	8.1	52
34	Cholesterol Sensitivity of KIR2.1 Is Controlled by a Belt of Residues around the Cytosolic Pore. Biophysical Journal, 2011, 100, 381-389.	0.5	52
35	Phosphatidylinositol-4,5-Bisphosphate Regulates NMDA Receptor Activity through Â-Actinin. Journal of Neuroscience, 2007, 27, 5523-5532.	3.6	50
36	Diverse Kir modulators act in close proximity to residues implicated in phosphoinositide binding. Journal of Physiology, 2007, 582, 953-965.	2.9	49

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37	GÎ ² Residues That Do Not Interact with Gα Underlie Agonist-independent Activity of K+ Channels. Journal of Biological Chemistry, 2002, 277, 7348-7355.	3.4	48
38	A sodium-mediated structural switch that controls the sensitivity of Kir channels to PtdIns(4,5)P2. Nature Chemical Biology, 2008, 4, 624-631.	8.0	48
39	Positive allosteric modulators of metabotropic glutamate 2 receptors in schizophrenia treatment. Trends in Neurosciences, 2015, 38, 506-516.	8.6	48
40	Competition of calcified calmodulin N lobe and PIP ₂ to an LQT mutation site in Kv7.1 channel. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E869-E878.	7.1	46
41	Mechanism of PLC-Mediated Kir3 Current Inhibition. Channels, 2007, 1, 113-123.	2.8	45
42	Dual Regulation of Voltage-Sensitive Ion Channels by PIP2. Frontiers in Pharmacology, 2012, 3, 170.	3.5	45
43	Exploring the Nanotoxicology of MoS ₂ : A Study on the Interaction of MoS ₂ Nanoflakes and K ⁺ Channels. ACS Nano, 2018, 12, 705-717.	14.6	44
44	Assaying Phosphatidylinositol Bisphosphate Regulation of Potassium Channels. Methods in Enzymology, 2002, 345, 71-92.	1.0	43
45	PIP ₂ Â-Regulates the Ionic Current of P2X Receptors and P2X _{Â7} Receptor-Mediated Cell Death. Channels, 2007, 1, 47-56.	2.8	41
46	Subtype-Specific Regulation of P2X3 and P2X2/3 Receptors by Phosphoinositides in Peripheral Nociceptors. Molecular Pain, 2009, 5, 1744-8069-5-47.	2.1	40
47	Structural Determinants of Phosphatidylinositol 4,5-Bisphosphate (PIP2) Regulation of BK Channel Activity through the RCK1 Ca2+ Coordination Site. Journal of Biological Chemistry, 2014, 289, 18860-18872.	3.4	37
48	Direct Modulation of P2X1 Receptor-Channels by the Lipid Phosphatidylinositol 4,5-Bisphosphate. Molecular Pharmacology, 2008, 74, 785-792.	2.3	35
49	Gating of a G protein-sensitive Mammalian Kir3.1 Prokaryotic Kir Channel Chimera in Planar Lipid Bilayers. Journal of Biological Chemistry, 2010, 285, 39790-39800.	3.4	34
50	Gating of G protein-sensitive inwardly rectifying K+channels through phosphatidylinositol 4,5-bisphosphate. Journal of Physiology, 1999, 520, 630-630.	2.9	33
51	PIP(2) regulates the ionic current of P2X receptors and P2X(7) receptor-mediated cell death. Channels, 2007, 1, 46-55.	2.8	31
52	A Computational Model Predicts That Gβγ Acts at a Cleft Between Channel Subunits to Activate GIRK1 Channels. Science Signaling, 2013, 6, ra69.	3.6	30
53	PIP2 regulation of TRPC5 channel activation and desensitization. Journal of Biological Chemistry, 2021, 296, 100726.	3.4	30
54	Characterization of a Ca2+-activated K+current in insulin-secreting murine βTC-3 cells. Journal of Physiology, 1998, 509, 355-370.	2.9	28

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55	Ca ²⁺ -Calmodulin and PIP2 interactions at the proximal C-terminus of Kv7 channels. Channels, 2017, 11, 686-695.	2.8	28
56	G protein-coupled receptor-effector macromolecular membrane assemblies (GEMMAs). , 2022, 231, 107977.		28
57	Phosphatidylinositol 4,5-Bisphosphate Activates Slo3 Currents and Its Hydrolysis Underlies the Epidermal Growth Factor-induced Current Inhibition. Journal of Biological Chemistry, 2010, 285, 19259-19266.	3.4	27
58	The Molecular Mechanism of Opening the Helix Bundle Crossing (HBC) Gate of a Kir Channel. Scientific Reports, 2016, 6, 29399.	3.3	26
59	Cross-signaling in metabotropic glutamate 2 and serotonin 2A receptor heteromers in mammalian cells. Pflugers Archiv European Journal of Physiology, 2016, 468, 775-793.	2.8	26
60	On the mechanism of GIRK2 channel gating by phosphatidylinositol bisphosphate, sodium, and the Gβγ dimer. Journal of Biological Chemistry, 2019, 294, 18934-18948.	3.4	26
61	Glycosylation of GIRK1 at Asn119 and ROMK1 at Asn117 Has Different Consequences in Potassium Channel Function. Journal of Biological Chemistry, 2000, 275, 30677-30682.	3.4	25
62	Identification of the Conformational transition pathway in PIP2 Opening Kir Channels. Scientific Reports, 2015, 5, 11289.	3.3	24
63	The ICl,swell inhibitor DCPIB blocks Kir channels that possess weak affinity for PIP2. Pflugers Archiv European Journal of Physiology, 2016, 468, 817-824.	2.8	23
64	A Critical Gating Switch at a Modulatory Site in Neuronal Kir3 Channels. Journal of Neuroscience, 2015, 35, 14397-14405.	3.6	22
65	Regulation of ATP-gated P2X receptors by phosphoinositides. Pflugers Archiv European Journal of Physiology, 2007, 455, 181-185.	2.8	21
66	Kir Channel Molecular Physiology, Pharmacology, and Therapeutic Implications. Handbook of Experimental Pharmacology, 2021, 267, 277-356.	1.8	21
67	Unifying Mechanism of Controlling Kir3 Channel Activity by G Proteins and Phosphoinositides. International Review of Neurobiology, 2015, 123, 1-26.	2.0	20
68	The small molecule GAT1508 activates brain-specific GIRK1/2 channel heteromers and facilitates conditioned fear extinction in rodents. Journal of Biological Chemistry, 2020, 295, 3614-3634.	3.4	20
69	PKC regulation of ion channels: The involvement of PIP2. Journal of Biological Chemistry, 2022, 298, 102035.	3.4	19
70	Regulation of Kv2.1 channel inactivation by phosphatidylinositol 4,5-bisphosphate. Scientific Reports, 2018, 8, 1769.	3.3	18
71	Structural-Functional Analysis of the Third Transmembrane Domain of the Corticotropin-releasing Factor Type 1 Receptor. Journal of Biological Chemistry, 2014, 289, 18966-18977.	3.4	16
72	Hydrogen sulfide inhibits Kir2 and Kir3 channels by decreasing sensitivity to the phospholipid phosphatidylinositol 4,5-bisphosphate (PIP2). Journal of Biological Chemistry, 2018, 293, 3546-3561.	3.4	15

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73	G Protein-Coupled Receptor Signaling to Kir Channels in Xenopus Oocytes. Current Pharmaceutical Biotechnology, 2014, 15, 987-995.	1.6	15
74	Activation of specific bitter taste receptors by olive oil phenolics and secoiridoids. Scientific Reports, 2021, 11, 22340.	3.3	15
75	Mass spectrometric analysis reveals a functionally important PKA phosphorylation site in a Kir3 channel subunit. Pflugers Archiv European Journal of Physiology, 2009, 458, 303-314.	2.8	13
76	Stoichiometry of Kir channels with phosphatidylinositol bisphosphate. Channels, 2008, 2, 19-33.	2.8	12
77	Mutations in Nature Conferred a High Affinity Phosphatidylinositol 4,5-Bisphosphate-binding Site in Vertebrate Inwardly Rectifying Potassium Channels. Journal of Biological Chemistry, 2015, 290, 16517-16529.	3.4	12
78	Cloning and Characterization of G Protein-Gated Inward Rectifier K ⁺ Channel (GIRK1) Isoforms from Heart and Brain. Journal of Molecular Neuroscience, 2001, 16, 21-32.	2.3	11
79	SLO-2 isoforms with unique Ca2+- and voltage-dependence characteristics confer sensitivity to hypoxia inC. elegans. Channels, 2013, 7, 194-205.	2.8	11
80	Molecular overlap in the regulation of SK channels by small molecules and phosphoinositides. Science Advances, 2015, 1, e1500008.	10.3	11
81	A novel small-molecule selective activator of homomeric GIRK4 channels. Journal of Biological Chemistry, 2022, 298, 102009.	3.4	11
82	Structure-based analysis of CysZ-mediated cellular uptake of sulfate. ELife, 2018, 7, .	6.0	10
83	A molecular switch controls the impact of cholesterol on a Kir channel. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2109431119.	7.1	9
84	Reformulating a Pharmacophore for 5-HT _{2A} Serotonin Receptor Antagonists. ACS Chemical Neuroscience, 2016, 7, 1292-1299.	3.5	8
85	Lack of Negatively Charged Residues at the External Mouth of Kir2.2 Channels Enable the Voltage-Dependent Block by External Mg2+. PLoS ONE, 2014, 9, e111372.	2.5	8
86	Protein Binding Pocket Optimization for Virtual High-Throughput Screening (vHTS) Drug Discovery. ACS Omega, 2020, 5, 14297-14307.	3.5	7
87	A benzopyran with antiarrhythmic activity is an inhibitor of Kir3.1-containing potassium channels. Journal of Biological Chemistry, 2021, 296, 100535.	3.4	7
88	Three pairs of weak interactions precisely regulate the G-loop gate of Kir2.1 channel. Proteins: Structure, Function and Bioinformatics, 2016, 84, 1929-1937.	2.6	5
89	An optogenetic tool to recruit individual PKC isozymes to the cell surface and promote specific phosphorylation of membrane proteins. Journal of Biological Chemistry, 2022, 298, 101893.	3.4	5
90	Lick Rate and the Circadian Rhythm of Water Intake in the Rat: Effects of Deuterium Oxide. Annals of the New York Academy of Sciences, 1984, 423, 614-617.	3.8	3

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91	The where and how of PIP regulation of cone photoreceptor CNG channels. Journal of General Physiology, 2013, 141, 403-407.	1.9	1
92	Elucidation of molecular kinetic schemes from macroscopic traces using system identification. PLoS Computational Biology, 2017, 13, e1005376.	3.2	1