

Kenton J Swartz

List of Publications by Year in descending order

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72
papers

5,605
citations

76326

40
h-index

91884

69
g-index

87
all docs

87
docs citations

87
times ranked

3581
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of the Shaker Kv channel and mechanism of slow C-type inactivation. <i>Science Advances</i> , 2022, 8, eabm7814.	10.3	49
2	Structures of the T cell potassium channel Kv1.3 with immunoglobulin modulators. <i>Nature Communications</i> , 2022, 13, .	12.8	28
3	Expression of a membrane-targeted fluorescent reporter disrupts auditory hair cell mechanoelectrical transduction and causes profound deafness. <i>Hearing Research</i> , 2021, 404, 108212.	2.0	4
4	Dextran Labeling and Uptake in Live and Functional Murine Cochlear Hair Cells. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	2
5	Global alignment and assessment of TRP channel transmembrane domain structures to explore functional mechanisms. <i>ELife</i> , 2020, 9, .	6.0	42
6	Hearing loss mutations alter the functional properties of human P2X2 receptor channels through distinct mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22862-22871.	7.1	13
7	TMEM266 is a functional voltage sensor regulated by extracellular Zn ²⁺ . <i>ELife</i> , 2019, 8, .	6.0	15
8	Conserved allosteric pathways for activation of TRPV3 revealed through engineering vanilloid-sensitivity. <i>ELife</i> , 2019, 8, .	6.0	23
9	Molecular mechanisms of human P2X3 receptor channel activation and modulation by divalent cation bound ATP. <i>ELife</i> , 2019, 8, .	6.0	30
10	Exploring structural dynamics of a membrane protein by combining bioorthogonal chemistry and cysteine mutagenesis. <i>ELife</i> , 2019, 8, .	6.0	10
11	The ion selectivity filter is not an activation gate in TRPV1-3 channels. <i>ELife</i> , 2019, 8, .	6.0	38
12	Structural basis of temperature sensing in vanilloid sensitive TRPV channels.. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2019, 92, 1-SL02.	0.0	0
13	Heat activation is intrinsic to the pore domain of TRPV1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E317-E324.	7.1	55
14	TRPM channels come into focus. <i>Science</i> , 2018, 359, 160-161.	12.6	8
15	Lipids surf the groove in scramblases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 7648-7650.	7.1	8
16	Single-particle cryo-EM structure of a voltage-activated potassium channel in lipid nanodiscs. <i>ELife</i> , 2018, 7, .	6.0	80
17	Structural relationship between the putative hair cell mechanotransduction channel TMC1 and TMEM16 proteins. <i>ELife</i> , 2018, 7, .	6.0	84
18	Protein ligands for studying ion channel proteins. <i>Journal of General Physiology</i> , 2017, 149, 407-411.	1.9	0

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19	Engineering vanilloid-sensitivity into the rat TRPV2 channel. <i>ELife</i> , 2016, 5, .	6.0	53
20	Twists and turns in gating ion channels with voltage. <i>Science</i> , 2016, 353, 646-647.	12.6	6
21	Structural insights into the mechanism of activation of the TRPV1 channel by a membrane-bound tarantula toxin. <i>ELife</i> , 2016, 5, .	6.0	71
22	An external sodium ion binding site controls allosteric gating in TRPV1 channels. <i>ELife</i> , 2016, 5, .	6.0	53
23	Capsaicin Interaction with TRPV1 Channels in a Lipid Bilayer: Molecular Dynamics Simulation. <i>Biophysical Journal</i> , 2015, 108, 1425-1434.	0.5	74
24	Physical basis of apparent pore dilation of ATP-activated P2X receptor channels. <i>Nature Neuroscience</i> , 2015, 18, 1577-1583.	14.8	106
25	Tarantula toxins use common surfaces for interacting with Kv and ASIC ion channels. <i>ELife</i> , 2015, 4, e06774.	6.0	36
26	Structural interactions of a voltage sensor toxin with lipid membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E5463-70.	7.1	52
27	Divining the design principles of voltage sensors. <i>Journal of General Physiology</i> , 2014, 143, 139-144.	1.9	2
28	Exploring structure-function relationships between TRP and Kv channels. <i>Scientific Reports</i> , 2013, 3, 1523.	3.3	30
29	Opening the Shaker K ⁺ channel with hanatoxin. <i>Journal of General Physiology</i> , 2013, 141, 203-216.	1.9	28
30	The design principle of paddle motifs in voltage sensors. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 534-535.	8.2	0
31	The scorpion toxin and the potassium channel. <i>ELife</i> , 2013, 2, e00873.	6.0	6
32	High Yield Production and Refolding of the Double-Knot Toxin, an Activator of TRPV1 Channels. <i>PLoS ONE</i> , 2012, 7, e51516.	2.5	25
33	Structural Interactions between Lipids, Water and S1â€“S4 Voltage-Sensing Domains. <i>Journal of Molecular Biology</i> , 2012, 423, 632-647.	4.2	21
34	Solution Structure of Kurtoxin: A Gating Modifier Selective for Cav3 Voltage-Gated Ca ²⁺ Channels. <i>Biochemistry</i> , 2012, 51, 1862-1873.	2.5	17
35	Expression and characterization of recombinant kurtoxin, an inhibitor of T-type voltage-gated calcium channels. <i>Biochemical and Biophysical Research Communications</i> , 2011, 416, 277-282.	2.1	7
36	Functional properties and toxin pharmacology of a dorsal root ganglion sodium channel viewed through its voltage sensors. <i>Journal of General Physiology</i> , 2011, 138, 59-72.	1.9	46

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37	Elucidating the Molecular Basis of Action of a Classic Drug: Guanidine Compounds As Inhibitors of Voltage-Gated Potassium Channels. <i>Molecular Pharmacology</i> , 2011, 80, 1085-1095.	2.3	26
38	Position and motions of the S4 helix during opening of the Shaker potassium channel. <i>Journal of General Physiology</i> , 2010, 136, 629-644.	1.9	14
39	Structure and Orientation of a Voltage-Sensor Toxin in Lipid Membranes. <i>Biophysical Journal</i> , 2010, 99, 638-646.	0.5	28
40	Solution Structure of GxTX-1E, a High-Affinity Tarantula Toxin Interacting with Voltage Sensors in Kv2.1 Potassium Channels. <i>Biochemistry</i> , 2010, 49, 5134-5142.	2.5	29
41	Targeting voltage sensors in sodium channels with spider toxins. <i>Trends in Pharmacological Sciences</i> , 2010, 31, 175-182.	8.7	129
42	Structure and hydration of membranes embedded with voltage-sensing domains. <i>Nature</i> , 2009, 462, 473-479.	27.8	175
43	Interactions between lipids and voltage sensor paddles detected with tarantula toxins. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 1080-1085.	8.2	135
44	Deconstructing voltage sensor function and pharmacology in sodium channels. <i>Nature</i> , 2008, 456, 202-208.	27.8	258
45	Sensing voltage across lipid membranes. <i>Nature</i> , 2008, 456, 891-897.	27.8	269
46	Gating the pore of P2X receptor channels. <i>Nature Neuroscience</i> , 2008, 11, 883-887.	14.8	104
47	Tarantula Toxins Interact with Voltage Sensors within Lipid Membranes. <i>Journal of General Physiology</i> , 2007, 130, 497-511.	1.9	111
48	Tarantula toxins interacting with voltage sensors in potassium channels. <i>Toxicon</i> , 2007, 49, 213-230.	1.6	153
49	Portability of paddle motif function and pharmacology in voltage sensors. <i>Nature</i> , 2007, 450, 370-375.	27.8	202
50	Functional Interactions at the Interface between Voltage-Sensing and Pore Domains in the Shaker Kv Channel. <i>Neuron</i> , 2006, 52, 623-634.	8.1	88
51	Voltage-sensor activation with a tarantula toxin as cargo. <i>Nature</i> , 2005, 436, 857-860.	27.8	177
52	Structure and Anticipatory Movements of the S6 Gate in K v Channels. <i>Journal of General Physiology</i> , 2005, 126, 413-417.	1.9	12
53	Secondary Structure and Gating Rearrangements of Transmembrane Segments in Rat P2X4 Receptor Channels. <i>Journal of General Physiology</i> , 2005, 125, 347-359.	1.9	65
54	Solution Structure and Lipid Membrane Partitioning of VSTx1, an Inhibitor of the KvAP Potassium Channel. <i>Biochemistry</i> , 2005, 44, 6015-6023.	2.5	94

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55	Stabilizing the Closed S6 Gate in the Shaker K ^v Channel Through Modification of a Hydrophobic Seal. <i>Journal of General Physiology</i> , 2004, 124, 319-332.	1.9	63
56	Molecular Surface of Tarantula Toxins Interacting with Voltage Sensors in Kv Channels. <i>Journal of General Physiology</i> , 2004, 123, 455-467.	1.9	100
57	Towards a structural view of gating in potassium channels. <i>Nature Reviews Neuroscience</i> , 2004, 5, 905-916.	10.2	156
58	Solution Structure and Functional Characterization of SGTx1, a Modifier of Kv2.1 Channel Gating. <i>Biochemistry</i> , 2004, 43, 890-897.	2.5	101
59	Defining the Conductance of the Closed State in a Voltage-Gated K ⁺ Channel. <i>Neuron</i> , 2003, 38, 61-67.	8.1	32
60	Interaction between Extracellular Hanatoxin and the Resting Conformation of the Voltage-Sensor Paddle in Kv Channels. <i>Neuron</i> , 2003, 40, 527-536.	8.1	128
61	Constitutive Activation of the Shaker Kv Channel. <i>Journal of General Physiology</i> , 2003, 122, 541-556.	1.9	75
62	Scanning the Intracellular S6 Activation Gate in the Shaker K ⁺ Channel. <i>Journal of General Physiology</i> , 2002, 119, 521-531.	1.9	165
63	Solution Structure of Î±-Grammotoxin SIA, A Gating Modifier of P/Q and N-type Ca ²⁺ Channel. <i>Journal of Molecular Biology</i> , 2002, 321, 517-526.	4.2	47
64	Helical Structure of the CooH Terminus of S3 and Its Contribution to the Gating Modifier Toxin Receptor in Voltage-Gated Ion Channels. <i>Journal of General Physiology</i> , 2001, 117, 205-218.	1.9	99
65	Localization and Molecular Determinants of the Hanatoxin Receptors on the Voltage-Sensing Domains of a K ⁺ Channel. <i>Journal of General Physiology</i> , 2000, 115, 673-684.	1.9	125
66	Î±-Helical Structural Elements within the Voltage-Sensing Domains of a K ⁺ Channel. <i>Journal of General Physiology</i> , 2000, 115, 33-50.	1.9	172
67	Solution structure of hanatoxin1, a gating modifier of voltage-dependent K ⁺ channels: common surface features of gating modifier toxins. <i>Journal of Molecular Biology</i> , 2000, 297, 771-780.	4.2	140
68	A Hot Spot for the Interaction of Gating Modifier Toxins with Voltage-Dependent Ion Channels. <i>Journal of General Physiology</i> , 2000, 116, 637-644.	1.9	100
69	Inhibition of T-type voltage-gated calcium channels by a new scorpion toxin. <i>Nature Neuroscience</i> , 1998, 1, 668-674.	14.8	185
70	Hanatoxin Modifies the Gating of a Voltage-Dependent K ⁺ Channel through Multiple Binding Sites. <i>Neuron</i> , 1997, 18, 665-673.	8.1	243
71	Mapping the Receptor Site for Hanatoxin, a Gating Modifier of Voltage-Dependent K ⁺ Channels. <i>Neuron</i> , 1997, 18, 675-682.	8.1	229
72	An inhibitor of the Kv2.1 potassium channel isolated from the venom of a Chilean tarantula. <i>Neuron</i> , 1995, 15, 941-949.	8.1	244