

Zoltan Varga

List of Publications by Year in descending order

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47
papers

818
citations

623734

14
h-index

501196

28
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47
all docs

47
docs citations

47
times ranked

1023
citing authors

#	ARTICLE	IF	CITATIONS
1	Ion channels and lymphocyte activation. <i>Immunology Letters</i> , 2004, 92, 55-66.	2.5	101
2	Vm24, a Natural Immunosuppressive Peptide, Potently and Selectively Blocks Kv1.3 Potassium Channels of Human T Cells. <i>Molecular Pharmacology</i> , 2012, 82, 372-382.	2.3	83
3	Cholesterol modifies the gating of Kv1.3 in human T lymphocytes. <i>Pflugers Archiv European Journal of Physiology</i> , 2003, 445, 674-682.	2.8	82
4	Mechanisms of noncovalent \hat{I}^2 subunit regulation of NaV channel gating. <i>Journal of General Physiology</i> , 2017, 149, 813-831.	1.9	62
5	Anuroctoxin, a New Scorpion Toxin of the \hat{I}^{\pm} -KTx 6 Subfamily, Is Highly Selective for Kv1.3 over IKCa1 Ion Channels of Human T Lymphocytes. <i>Molecular Pharmacology</i> , 2005, 67, 1034-1044.	2.3	58
6	Direct and indirect cholesterol effects on membrane proteins with special focus on potassium channels. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2020, 1865, 158706.	2.4	50
7	A selective blocker of Kv1.2 and Kv1.3 potassium channels from the venom of the scorpion <i>Centruroides suffusus suffusus</i> . <i>Biochemical Pharmacology</i> , 2008, 76, 1142-1154.	4.4	46
8	Switch of Voltage-Gated K ⁺ Channel Expression in the Plasma Membrane of Chondrogenic Cells Affects Cytosolic Ca ²⁺ -Oscillations and Cartilage Formation. <i>PLoS ONE</i> , 2011, 6, e27957.	2.5	39
9	Direct Measurement of Cardiac Na ⁺ Channel Conformations Reveals Molecular Pathologies of Inherited Mutations. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015, 8, 1228-1239.	4.8	32
10	Regulation of Na ⁺ channel inactivation by the DIII and DIV voltage-sensing domains. <i>Journal of General Physiology</i> , 2017, 149, 389-403.	1.9	30
11	The \hat{I}^{\pm} Xenopus \hat{I}^{\pm} Oocyte Cut-open Vaseline Gap Voltage-clamp Technique With Fluorometry. <i>Journal of Visualized Experiments</i> , 2014, , .	0.3	22
12	An engineered scorpion toxin analogue with improved Kv1.3 selectivity displays reduced conformational flexibility. <i>Scientific Reports</i> , 2016, 5, 18397.	3.3	21
13	Optimization of the Synthesis of Flavone \hat{I}^{\pm} Amino Acid and Flavone \hat{I}^{\pm} Dipeptide Hybrids via Buchwald \hat{I}^{\pm} Hartwig Reaction. <i>Journal of Organic Chemistry</i> , 2017, 82, 4578-4587.	3.2	20
14	Molecular motions that shape the cardiac action potential: Insights from voltage clamp fluorometry. <i>Progress in Biophysics and Molecular Biology</i> , 2016, 120, 3-17.	2.9	19
15	7DHC-induced changes of Kv1.3 operation contributes to modified T cell function in Smith-Lemli-Opitz syndrome. <i>Pflugers Archiv European Journal of Physiology</i> , 2016, 468, 1403-1418.	2.8	15
16	Sterol Regulation of Voltage-Gated K ⁺ Channels. <i>Current Topics in Membranes</i> , 2017, 80, 255-292.	0.9	14
17	Determining the target of membrane sterols on voltage-gated potassium channels. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 312-325.	2.4	13
18	The Kv1.3 K ⁺ channel in the immune system and its \hat{I}^{\pm} precision pharmacology \hat{I}^{\pm} using peptide toxins. <i>Biologia Futura</i> , 2021, 72, 75-83.	1.4	13

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19	An ω -3, but Not an ω -6 Polyunsaturated Fatty Acid Decreases Membrane Dipole Potential and Stimulates Endo-Lysosomal Escape of Penetratin. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 647300.	3.7	11
20	Peptide Inhibitors of Kv1.5: An Option for the Treatment of Atrial Fibrillation. <i>Pharmaceuticals</i> , 2021, 14, 1303.	3.8	10
21	The anti-proliferative effect of cation channel blockers in T lymphocytes depends on the strength of mitogenic stimulation. <i>Immunology Letters</i> , 2016, 171, 60-69.	2.5	9
22	N-methyl-D-aspartate (NMDA) receptor expression and function is required for early chondrogenesis. <i>Cell Communication and Signaling</i> , 2019, 17, 166.	6.5	9
23	Periodic Membrane Potential and Ca ²⁺ Oscillations in T Cells Forming an Immune Synapse. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1568.	4.1	9
24	Cyclodextrins Exert a Ligand-like Current Inhibitory Effect on the KV1.3 Ion Channel Independent of Membrane Cholesterol Extraction. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 735357.	3.5	9
25	Involvement of Membrane Channels in Autoimmune Disorders. <i>Current Pharmaceutical Design</i> , 2007, 13, 2456-2468.	1.9	8
26	Probing pattern and dynamics of disulfide bridges using synthesis and NMR of an ion channel blocker peptide toxin with multiple diselenide bonds. <i>Chemical Science</i> , 2016, 7, 2666-2673.	7.4	7
27	The activation gate controls steady-state inactivation and recovery from inactivation in <i>Shaker</i> . <i>Journal of General Physiology</i> , 2020, 152, .	1.9	7
28	Shaker-IR K ⁺ channel gating in heavy water: Role of structural water molecules in inactivation. <i>Journal of General Physiology</i> , 2021, 153, .	1.9	5
29	sVmKTx, a transcriptome analysis-based synthetic peptide analogue of Vm24, inhibits Kv1.3 channels of human T cells with improved selectivity. <i>Biochemical Pharmacology</i> , 2022, 199, 115023.	4.4	4
30	Potassium Channel Blocking Peptide Toxins from Scorpion Venom. , 2015, , 493-527.		3
31	Shaker-IR K Channel Gating in Heavy Water: Role of Structural Water Molecules in Inactivation. <i>Biophysical Journal</i> , 2016, 110, 343a-344a.	0.5	3
32	Investigation of the Role of the TRPA1 Ion Channel in Conveying the Effect of Dimethyl Trisulfide on Vascular and Histological Changes in Serum-Transfer Arthritis. <i>Pharmaceuticals</i> , 2022, 15, 671.	3.8	2
33	Characterization of Direct Cyclodextrin Effects on Voltage-Gated Potassium Channels. <i>Biophysical Journal</i> , 2020, 118, 263a-264a.	0.5	1
34	A Novel Spider Peptide that Affects the Voltage Gated Potassium Channel Kv1.5. <i>Biophysical Journal</i> , 2021, 120, 246a-247a.	0.5	1
35	The Anti-Proliferative Effect of Cation Channel Blockers on T Lymphocytes Stimulated by Anti-CD3 and Anti-CD28. <i>Biophysical Journal</i> , 2015, 108, 586a-587a.	0.5	0
36	The Effect of Membrane Cholesterol Content on the Gating Mechanism of Voltage Gated Potassium Channels. <i>Biophysical Journal</i> , 2016, 110, 104a.	0.5	0

#	ARTICLE	IF	CITATIONS
37	DIII of Voltage-Gated Na ⁺ Channels Interacts With Inactivation in the Time Domain of Intermediate Inactivation. <i>Biophysical Journal</i> , 2016, 110, 437a.	0.5	0
38	7-Dehydrocholesterol Modifies the Operation of Kv1.3 Channels in T Cells Isolated from Smith-Lemli-Opitz Syndrome Patients. <i>Biophysical Journal</i> , 2016, 110, 278a-279a.	0.5	0
39	Analysis of the State-Dependent Block of Shaker IR by bTbUA. <i>Biophysical Journal</i> , 2017, 112, 247a.	0.5	0
40	Probing the Gating of Kv10.1 Channels by MTS Reagents. <i>Biophysical Journal</i> , 2017, 112, 248a.	0.5	0
41	KCa1.1 Channel Auxiliary Beta Subunit Composition in Glioblastoma Multiforme. <i>Biophysical Journal</i> , 2017, 112, 546a.	0.5	0
42	Determining the Target of Membrane Sterols on the Gating of Voltage-Gated Potassium Channels using Voltage-Clamp Fluorometry. <i>Biophysical Journal</i> , 2018, 114, 477a.	0.5	0
43	The Origin of the Voltage Clamp Fluorometry Signal in Ci-Hv1 Proton Channel. <i>Biophysical Journal</i> , 2019, 116, 243a.	0.5	0
44	Detecting and Modelling Conformational States of the Proton Channel with Voltage-Clamp Fluorometry. <i>Biophysical Journal</i> , 2020, 118, 275a.	0.5	0
45	Discovery of human Hv1 channel peptide inhibitors. <i>Biophysical Journal</i> , 2022, 121, 504a.	0.5	0
46	Multiple mechanisms contribute to fluorometry signals from the voltage-gated proton channel. <i>Biophysical Journal</i> , 2022, 121, 247a.	0.5	0
47	Functional Voltage-Gated Sodium Channels Are Present in the Human B Cell Membrane. <i>Cells</i> , 2022, 11, 1225.	4.1	0