

Michal Hershinkel

List of Publications by Year in descending order

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86
papers

5,540
citations

71061

41
h-index

82499

72
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94
all docs

94
docs citations

94
times ranked

5707
citing authors

#	ARTICLE	IF	CITATIONS
1	ZnT1 is a neuronal Zn ²⁺ /Ca ²⁺ exchanger. <i>Cell Calcium</i> , 2022, 101, 102505.	1.1	12
2	SNAP23 regulates KCC2 membrane insertion and activity following mZnR/GPR39 activation in hippocampal neurons. <i>iScience</i> , 2022, 25, 103751.	1.9	7
3	The ZIP3 Zinc Transporter Is Localized to Mossy Fiber Terminals and Is Required for Kainate-Induced Degeneration of CA3 Neurons. <i>Journal of Neuroscience</i> , 2022, 42, 2824-2834.	1.7	7
4	ZnR/GPR39 controls cell migration by orchestrating recruitment of KCC3 into protrusions, re-organization of actin and activation of MMP. <i>Cell Calcium</i> , 2021, 94, 102330.	1.1	7
5	Zinc Signaling in the Mammary Gland: For Better and for Worse. <i>Biomedicines</i> , 2021, 9, 1204.	1.4	4
6	Synaptic zinc inhibition of NMDA receptors depends on the association of GluN2A with the zinc transporter ZnT1. <i>Science Advances</i> , 2020, 6, .	4.7	43
7	Elucidating the H ⁺ Coupled Zn ²⁺ Transport Mechanism of ZIP4; Implications in Acrodermatitis Enteropathica. <i>International Journal of Molecular Sciences</i> , 2020, 21, 734.	1.8	24
8	Rare-variant pathogenicity triage and inclusion of synonymous variants improves analysis of disease associations of orphan G protein-coupled receptors. <i>Journal of Biological Chemistry</i> , 2019, 294, 18109-18121.	1.6	14
9	ZnR/GPR39 upregulation of K ⁺ /Cl ⁻ -cotransporter 3 in tamoxifen resistant breast cancer cells. <i>Cell Calcium</i> , 2019, 81, 12-20.	1.1	17
10	Zinc transporter 10 (ZnT10)-dependent extrusion of cellular Mn ²⁺ is driven by an active Ca ²⁺ -coupled exchange. <i>Journal of Biological Chemistry</i> , 2019, 294, 5879-5889.	1.6	30
11	Zinc Signaling (Zinc™ing) in Intestinal Function. , 2019, , 347-363.		0
12	Parallel in vivo and in vitro transcriptomics analysis reveals calcium and zinc signalling in the brain as sensitive targets of HBCD neurotoxicity. <i>Archives of Toxicology</i> , 2018, 92, 1189-1203.	1.9	16
13	Enhanced ZnR/GPR39 Activity in Breast Cancer, an Alternative Trigger of Signaling Leading to Cell Growth. <i>Scientific Reports</i> , 2018, 8, 8119.	1.6	18
14	The Zinc Sensing Receptor, ZnR/GPR39, in Health and Disease. <i>International Journal of Molecular Sciences</i> , 2018, 19, 439.	1.8	86
15	How cellular Zn ²⁺ signaling drives physiological functions. <i>Cell Calcium</i> , 2018, 75, 53-63.	1.1	61
16	Mitochondria control store-operated Ca ²⁺ entry through Na ⁺ and redox signals. <i>EMBO Journal</i> , 2017, 36, 797-815.	3.5	82
17	Optogenetic control of mitochondrial metabolism and Ca ²⁺ signaling by mitochondria-targeted opsins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E5167-E5176.	3.3	52
18	The Zn ²⁺ -sensing receptor, ZnR/GPR39, upregulates colonocytic Cl ⁻ absorption, via basolateral KCC1, and reduces fluid loss. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 947-960.	1.8	25

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19	Identification of residues that control Li ⁺ versus Na ⁺ dependent Ca ²⁺ exchange at the transport site of the mitochondrial NCLX. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017, 1864, 997-1008.	1.9	23
20	Mobile zinc increases rapidly in the retina after optic nerve injury and regulates ganglion cell survival and optic nerve regeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E209-E218.	3.3	111
21	The zinc sensing receptor ZnR GPR39 in health and disease. <i>Frontiers in Bioscience - Landmark</i> , 2017, 22, 1469-1492.	3.0	34
22	The zinc sensing receptor, ZnR/GPR39, triggers metabotropic calcium signalling in colonocytes and regulates occludin recovery in experimental colitis. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150420.	1.8	36
23	Amyloid β^2 attenuates metabotropic zinc sensing receptor, $mZnR$ /GPR39, dependent Ca ²⁺ , ERK1/2 and Clusterin signaling in neurons. <i>Journal of Neurochemistry</i> , 2016, 139, 221-233.	2.1	26
24	Regulation of neuronal pH by the metabotropic Zn ²⁺ -sensing Gq-coupled receptor, mZnR/GPR39. <i>Journal of Neurochemistry</i> , 2015, 135, 897-907.	2.1	20
25	Mitotic Slippage and Expression of Survivin Are Linked to Differential Sensitivity of Human Cancer Cell-Lines to the Kinesin-5 Inhibitor Monastrol. <i>PLoS ONE</i> , 2015, 10, e0129255.	1.1	23
26	A crosstalk between Na ⁺ channels, Na ⁺ /K ⁺ pump and mitochondrial Na ⁺ transporters controls glucose-dependent cytosolic and mitochondrial Na ⁺ signals. <i>Cell Calcium</i> , 2015, 57, 69-75.	1.1	26
27	Life after the birth of the mitochondrial Na ⁺ /Ca ²⁺ exchanger, NCLX. <i>Science China Life Sciences</i> , 2015, 58, 59-65.	2.3	15
28	PKA Phosphorylation of NCLX Reverses Mitochondrial Calcium Overload and Depolarization, Promoting Survival of PINK1-Deficient Dopaminergic Neurons. <i>Cell Reports</i> , 2015, 13, 376-386.	2.9	136
29	Seashells by the zinc shore: a meeting report of the International Society for Zinc Biology, Asilomar, CA 2014. <i>Metallomics</i> , 2015, 7, 1299-1304.	1.0	0
30	Homeostatic regulation of KCC2 activity by the zinc receptor mZnR/GPR39 during seizures. <i>Neurobiology of Disease</i> , 2015, 81, 4-13.	2.1	66
31	Nitric oxide signaling modulates synaptic inhibition in the superior paraolivary nucleus (SPN) via cGMP-dependent suppression of KCC2. <i>Frontiers in Neural Circuits</i> , 2014, 8, 65.	1.4	33
32	The ZnR/GPR39 Interacts With the CaSR to Enhance Signaling in Prostate and Salivary Epithelia. <i>Journal of Cellular Physiology</i> , 2014, 229, 868-877.	2.0	32
33	Impact of S100A8/A9 Expression on Prostate Cancer Progression In Vitro and In Vivo. <i>Journal of Cellular Physiology</i> , 2014, 229, 661-671.	2.0	32
34	The Zinc-Sensing Receptor, ZnR/GPR39: Signaling and Significance. , 2014, , 111-133.		3
35	The zinc sensing receptor, ZnR/GPR39, controls proliferation and differentiation of colonocytes and thereby tight junction formation in the colon. <i>Cell Death and Disease</i> , 2014, 5, e1307-e1307.	2.7	70
36	Pancreatic β -cell Na ⁺ channels control global Ca ²⁺ signaling and oxidative metabolism by inducing Na ⁺ and Ca ²⁺ responses that are propagated into mitochondria. <i>FASEB Journal</i> , 2014, 28, 3301-3312.	0.2	49

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37	Synaptic Zn ²⁺ Inhibits Neurotransmitter Release by Promoting Endocannabinoid Synthesis. <i>Journal of Neuroscience</i> , 2013, 33, 9259-9272.	1.7	73
38	The mitochondrial Na ⁺ /Ca ²⁺ exchanger NCLX is an integrating hub for glucose dependent Na ⁺ and Ca ²⁺ signaling in pancreatic β cells. <i>FASEB Journal</i> , 2013, 27, 918.9.	0.2	1
39	Molecular Identity and Functional Properties of the Mitochondrial Na ⁺ /Ca ²⁺ Exchanger. <i>Journal of Biological Chemistry</i> , 2012, 287, 31650-31657.	1.6	56
40	Histidine pairing at the metal transport site of mammalian ZnT transporters controls Zn ²⁺ over Cd ²⁺ selectivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 7202-7207.	3.3	117
41	SNARE-dependent upregulation of potassium chloride co-transporter 2 activity after metabotropic zinc receptor activation in rat cortical neurons in vitro. <i>Neuroscience</i> , 2012, 210, 38-46.	1.1	50
42	Extracellular pH Regulates Zinc Signaling via an Asp Residue of the Zinc-sensing Receptor (ZnR/GPR39). <i>Journal of Biological Chemistry</i> , 2012, 287, 33339-33350.	1.6	22
43	The Mitochondrial Na ⁺ /Ca ²⁺ Exchanger Upregulates Glucose Dependent Ca ²⁺ Signalling Linked to Insulin Secretion. <i>PLoS ONE</i> , 2012, 7, e46649.	1.1	64
44	Zinc Sensing Receptor Signaling, Mediated by GPR39, Reduces Butyrate-Induced Cell Death in HT29 Colonocytes via Upregulation of Clusterin. <i>PLoS ONE</i> , 2012, 7, e35482.	1.1	44
45	The Neurophysiology and Pathology of Brain Zinc. <i>Journal of Neuroscience</i> , 2011, 31, 16076-16085.	1.7	291
46	Upregulation of KCC2 Activity by Zinc-Mediated Neurotransmission via the mZnR/GPR39 Receptor. <i>Journal of Neuroscience</i> , 2011, 31, 12916-12926.	1.7	125
47	Zinc homeostatic proteins in the CNS are regulated by crosstalk between extracellular and intracellular zinc. <i>Journal of Cellular Physiology</i> , 2010, 224, 567-574.	2.0	10
48	Zinc Released from Injured Cells Is Acting via the Zn ²⁺ -sensing Receptor, ZnR, to Trigger Signaling Leading to Epithelial Repair. <i>Journal of Biological Chemistry</i> , 2010, 285, 26097-26106.	1.6	94
49	NCLX is an essential component of mitochondrial Na ⁺ /Ca ²⁺ exchange. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 436-441.	3.3	683
50	Synaptically Released Zinc Triggers Metabotropic Signaling via a Zinc-Sensing Receptor in the Hippocampus. <i>Journal of Neuroscience</i> , 2009, 29, 2890-2901.	1.7	199
51	Identification of the Zn ²⁺ Binding Site and Mode of Operation of a Mammalian Zn ²⁺ Transporter. <i>Journal of Biological Chemistry</i> , 2009, 284, 17677-17686.	1.6	161
52	The lipophilic zinc chelator DP-b99 prevents zinc induced neuronal death. <i>European Journal of Pharmacology</i> , 2009, 618, 15-21.	1.7	27
53	Cell death induced by zinc and cadmium is mediated by clusterin in cultured mouse seminiferous tubules. <i>Journal of Cellular Physiology</i> , 2009, 220, 222-229.	2.0	24
54	Intracellular zinc inhibits KCC2 transporter activity. <i>Nature Neuroscience</i> , 2009, 12, 725-727.	7.1	59

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55	Glutamate Regulates the Activity of Topoisomerase I in Mouse Cerebellum. <i>Molecular Neurobiology</i> , 2008, 38, 242-252.	1.9	7
56	Extracellular zinc and zinc-citrate, acting through a putative zinc-sensing receptor, regulate growth and survival of prostate cancer cells. <i>Carcinogenesis</i> , 2008, 29, 1692-1700.	1.3	49
57	Targeting lipid rafts inhibits protein kinase B by disrupting calcium homeostasis and attenuates malignant properties of melanoma cells. <i>Carcinogenesis</i> , 2008, 29, 1546-1554.	1.3	35
58	The Zinc Sensing Receptor, a Link Between Zinc and Cell Signaling. <i>Molecular Medicine</i> , 2007, 13, 331-336.	1.9	83
59	Mechanism and Regulation of Cellular Zinc Transport. <i>Molecular Medicine</i> , 2007, 13, 337-343.	1.9	176
60	Fluorescence-Based Zinc Ion Sensor for Zinc Ion Release from Pancreatic Cells. <i>Analytical Chemistry</i> , 2006, 78, 5799-5804.	3.2	42
61	Single \pm -Domain Constructs of the $\text{Na}^+/\text{Ca}^{2+}$ Exchanger, NCLX, Oligomerize To Form a Functional Exchanger. <i>Biochemistry</i> , 2006, 45, 11856-11866.	1.2	28
62	Zinc influx and physiological consequences in the β ² -insulinoma cell line, Min6. <i>Biochemical and Biophysical Research Communications</i> , 2006, 346, 205-212.	1.0	33
63	Synaptic release of zinc from brain slices: Factors governing release, imaging, and accurate calculation of concentration. <i>Journal of Neuroscience Methods</i> , 2006, 154, 19-29.	1.3	109
64	Silencing of ZnT-1 expression enhances heavy metal influx and toxicity. <i>Journal of Molecular Medicine</i> , 2006, 84, 753-763.	1.7	66
65	The Gluzinergetic Synapse: Who's Talking and Who's Listening?. , 2005, , 123-137.		5
66	Rapid and reactive nitric oxide production by astrocytes in mouse neocortical slices. <i>Glia</i> , 2005, 52, 169-176.	2.5	52
67	Zinc-regulating Proteins, ZnT-1, and Metallothionein I/II Are Present in Different Cell Populations in the Mouse Testis. <i>Journal of Histochemistry and Cytochemistry</i> , 2005, 53, 905-912.	1.3	38
68	The extracellular zinc-sensing receptor mediates intercellular communication by inducing ATP release. <i>Biochemical and Biophysical Research Communications</i> , 2005, 332, 845-852.	1.0	29
69	Role of GPR40 in fatty acid action on the β ² cell line INS-1E. <i>Biochemical and Biophysical Research Communications</i> , 2005, 335, 97-104.	1.0	201
70	Lithium-Calcium Exchange Is Mediated by a Distinct Potassium-independent Sodium-Calcium Exchanger. <i>Journal of Biological Chemistry</i> , 2004, 279, 25234-25240.	1.6	119
71	Extracellular Zinc Triggers ERK-dependent Activation of Na^+/H^+ Exchange in Colonocytes Mediated by the Zinc-sensing Receptor. <i>Journal of Biological Chemistry</i> , 2004, 279, 51804-51816.	1.6	96
72	Inhibitory Mechanism of Store-operated Ca^{2+} Channels by Zinc. <i>Journal of Biological Chemistry</i> , 2004, 279, 11106-11111.	1.6	41

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73	A Sodium Zinc Exchange Mechanism Is Mediating Extrusion of Zinc in Mammalian Cells. <i>Journal of Biological Chemistry</i> , 2004, 279, 4278-4284.	1.6	64
74	ZnT-1 expression in astroglial cells protects against zinc toxicity and slows the accumulation of intracellular zinc. <i>Glia</i> , 2004, 48, 145-155.	2.5	107
75	A role for ZnT-1 in regulating cellular cation influx. <i>Biochemical and Biophysical Research Communications</i> , 2004, 323, 1145-1150.	1.0	66
76	Clioquinol effects on tissue chelatable zinc in mice. <i>Journal of Molecular Medicine</i> , 2003, 81, 637-644.	1.7	48
77	Unique targeting of cytosolic phospholipase A2 to plasma membranes mediated by the NADPH oxidase in phagocytes. <i>Journal of Cell Biology</i> , 2003, 162, 683-692.	2.3	82
78	Postnatal regulation of ZnT-1 expression in the mouse brain. <i>Developmental Brain Research</i> , 2002, 137, 149-157.	2.1	35
79	Distribution of the zinc transporter ZnT-1 in comparison with chelatable zinc in the mouse brain. <i>Journal of Comparative Neurology</i> , 2002, 447, 201-209.	0.9	90
80	A zinc-sensing receptor triggers the release of intracellular Ca ²⁺ and regulates ion transport. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 11749-11754.	3.3	226
81	Investigation of the composition and electrical properties of gold-terminated silicon (111) interface. <i>Thin Solid Films</i> , 1998, 320, 228-235.	0.8	7
82	SURFACE MODIFICATIONS: NANOSTRUCTURES AND NESTED POLYHEDRA GENERATED BY PULSING THE STM TIP. <i>Surface Review and Letters</i> , 1997, 04, 1015-1020.	0.5	0
83	Scanning Tunneling Microscope Induced Crystallization of Fullerene-like MoS ₂ . <i>Journal of the American Chemical Society</i> , 1996, 118, 7804-7808.	6.6	46
84	Scanning tunneling spectroscopy studies of the Au-terminated Si interface. <i>Applied Physics Letters</i> , 1996, 69, 400-402.	1.5	7
85	Crystallization of layered metal-dichalcogenides films on amorphous substrates. <i>Applied Physics Letters</i> , 1995, 67, 3474-3476.	1.5	26
86	Nested Polyhedra of MX ₂ (M = W, Mo; X = S, Se) Probed by High-Resolution Electron Microscopy and Scanning Tunneling Microscopy. <i>Journal of the American Chemical Society</i> , 1994, 116, 1914-1917.	6.6	159