

# Susanna Zierler

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

1,500  
citations

331259

21  
h-index

377514

34  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1821  
citing authors

#	ARTICLE	IF	CITATIONS
1	TRPM7 is essential for Mg <sup>2+</sup> homeostasis in mammals. <i>Nature Communications</i> , 2010, 1, 109.	5.8	264
2	Waixenicin A Inhibits Cell Proliferation through Magnesium-dependent Block of Transient Receptor Potential Melastatin 7 (TRPM7) Channels. <i>Journal of Biological Chemistry</i> , 2011, 286, 39328-39335.	1.6	124
3	Agonist-mediated switching of ion selectivity in TPC2 differentially promotes lysosomal function. <i>ELife</i> , 2020, 9, .	2.8	108
4	Epithelial magnesium transport by TRPM6 is essential for prenatal development and adult survival. <i>ELife</i> , 2016, 5, .	2.8	98
5	A single lysine in the N-terminal region of store-operated channels is critical for STIM1-mediated gating. <i>Journal of General Physiology</i> , 2010, 136, 673-686.	0.9	86
6	Defects in TRPM7 channel function deregulate thrombopoiesis through altered cellular Mg <sup>2+</sup> homeostasis and cytoskeletal architecture. <i>Nature Communications</i> , 2016, 7, 11097.	5.8	84
7	TRPM7 kinase activity is essential for T cell colonization and alloreactivity in the gut. <i>Nature Communications</i> , 2017, 8, 1917.	5.8	70
8	TRPM6 and TRPM7 differentially contribute to the relief of heteromeric TRPM6/7 channels from inhibition by cytosolic Mg <sup>2+</sup> and Mg $\hat{A}$ -ATP. <i>Scientific Reports</i> , 2017, 7, 8806.	1.6	61
9	NAADP and the two-pore channel protein 1 participate in the acrosome reaction in mammalian spermatozoa. <i>Molecular Biology of the Cell</i> , 2014, 25, 948-964.	0.9	53
10	The Channel-Kinase TRPM7 as Novel Regulator of Immune System Homeostasis. <i>Cells</i> , 2018, 7, 109.	1.8	43
11	TRPM7 Kinase Controls Calcium Responses in Arterial Thrombosis and Stroke in Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 344-352.	1.1	42
12	Chloride Influx Provokes Lamellipodium Formation in Microglial Cells. <i>Cellular Physiology and Biochemistry</i> , 2008, 21, 055-062.	1.1	37
13	TRPM7 kinase activity regulates murine mast cell degranulation. <i>Journal of Physiology</i> , 2016, 594, 2957-2970.	1.3	34
14	TRPM channels as potential therapeutic targets against pro-inflammatory diseases. <i>Cell Calcium</i> , 2017, 67, 105-115.	1.1	33
15	Inhibition of TRPM7 blocks MRTF/SRF-dependent transcriptional and tumorigenic activity. <i>Oncogene</i> , 2020, 39, 2328-2344.	2.6	31
16	The molecular appearance of native TRPM7 channel complexes identified by high-resolution proteomics. <i>ELife</i> , 2021, 10, .	2.8	30
17	Targeting proliferation of chronic lymphocytic leukemia (CLL) cells through KCa3.1 blockade. <i>Leukemia</i> , 2014, 28, 954-958.	3.3	29
18	Mibefradil represents a new class of benzimidazole TRPM7 channel agonists. <i>Pflugers Archiv European Journal of Physiology</i> , 2016, 468, 623-634.	1.3	28

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19	Lung emphysema and impaired macrophage elastase clearance in mucolipin 3 deficient mice. <i>Nature Communications</i> , 2022, 13, 318.	5.8	25
20	cAMP mediates ammonia-induced programmed cell death in the microglial cell line BV-2. <i>European Journal of Neuroscience</i> , 2007, 25, 2285-2295.	1.2	23
21	An artificial three-dimensional matrix promotes ramification in the microglial cell-line, BV-2. <i>Neuroscience Letters</i> , 2006, 410, 137-140.	1.0	21
22	Blockade of chloride channels suppresses engulfment of microspheres in the microglial cell line, BV-2. <i>Brain Research</i> , 2007, 1184, 1-9.	1.1	21
23	Human Sensory Neuron-specific Mas-related G Protein-coupled Receptors-X1 Sensitize and Directly Activate Transient Receptor Potential Cation Channel V1 via Distinct Signaling Pathways. <i>Journal of Biological Chemistry</i> , 2012, 287, 40956-40971.	1.6	21
24	TPC1 deficiency or blockade augments systemic anaphylaxis and mast cell activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 18068-18078.	3.3	21
25	Bitter taste signaling in tracheal epithelial brush cells elicits innate immune responses to bacterial infection. <i>Journal of Clinical Investigation</i> , 2022, 132, .	3.9	19
26	The voltage-gated potassium channel KV1.3 regulates neutrophil recruitment during inflammation. <i>Cardiovascular Research</i> , 2022, 118, 1289-1302.	1.8	18
27	TRPM7 Kinase Is Essential for Neutrophil Recruitment and Function via Regulation of Akt/mTOR Signaling. <i>Frontiers in Immunology</i> , 2020, 11, 606893.	2.2	17
28	Ultraviolet irradiation-induced apoptosis does not trigger nuclear fragmentation but translocation of chromatin from nucleus into cytoplasm in the microglial cell-line, BV-2. <i>Brain Research</i> , 2006, 1121, 12-21.	1.1	15
29	Blockade of chloride conductance antagonizes PMA-induced ramification in the murine microglial cell line, BV-2. <i>Brain Research</i> , 2005, 1039, 162-170.	1.1	12
30	Editorial: TRP Channels in Inflammation and Immunity. <i>Frontiers in Immunology</i> , 2021, 12, 684172.	2.2	12
31	Structural mechanism of TRPM7 channel regulation by intracellular magnesium. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, 225.	2.4	10
32	Heterogeneous effects of distinct tocopherol analogues on NO release, cell volume, and cell death in microglial cells. <i>Journal of Neuroscience Research</i> , 2008, 86, 3526-3535.	1.3	5
33	Two-Pore Channels Regulate Inter-Organellar Ca <sup>2+</sup> Homeostasis in Immune Cells. <i>Cells</i> , 2022, 11, 1465.	1.8	3
34	The IP3R Binding Protein Released With Inositol 1,4,5-Trisphosphate Is Expressed in Rodent Reproductive Tissue and Spermatozoa. <i>Journal of Cellular Physiology</i> , 2016, 231, 1114-1129.	2.0	1