

Dandan Sun

List of Publications by Year in descending order

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100
papers

5,312
citations

57631

44
h-index

95083

68
g-index

102
all docs

102
docs citations

102
times ranked

5545
citing authors

#	ARTICLE	IF	CITATIONS
1	GABA receptors in brain development, function, and injury. <i>Metabolic Brain Disease</i> , 2015, 30, 367-379.	1.4	215
2	Molecular Mechanisms of Ischemic Cerebral Edema: Role of Electroneutral Ion Transport. <i>Physiology</i> , 2009, 24, 257-265.	1.6	185
3	GABAergic regulation of cerebellar NG2 cell development is altered in perinatal white matter injury. <i>Nature Neuroscience</i> , 2015, 18, 674-682.	7.1	167
4	Astrocytes from Na ⁺ -K ⁺ -Cl ⁻ cotransporter-null mice exhibit absence of swelling and decrease in EAA release. <i>American Journal of Physiology - Cell Physiology</i> , 2002, 282, C1147-C1160.	2.1	162
5	ER stress and impaired autophagy flux in neuronal degeneration and brain injury. <i>Ageing Research Reviews</i> , 2017, 34, 3-14.	5.0	152
6	Contribution of Na ⁺ -K ⁺ -Cl ⁻ cotransporter to high-[K ⁺] _o -induced swelling and EAA release in astrocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2002, 282, C1136-C1146.	2.1	132
7	Na ⁺ -Dependent Chloride Transporter (NKCC1)-Null Mice Exhibit Less Gray and White Matter Damage after Focal Cerebral Ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, 54-66.	2.4	131
8	Inhibition of Na ⁺ -K ⁺ -Cl ⁻ cotransporter during focal cerebral ischemia decreases edema and neuronal damage. <i>Brain Research</i> , 2003, 961, 22-31.	1.1	125
9	Na-K-Cl Cotransporter-Mediated Intracellular Na ⁺ Accumulation Affects Ca ²⁺ Signaling in Astrocytes in an In Vitro Ischemic Model. <i>Journal of Neuroscience</i> , 2004, 24, 9585-9597.	1.7	124
10	Na-K-Cl Cotransporter Contributes to Glutamate-Mediated Excitotoxicity. <i>Journal of Neuroscience</i> , 2003, 23, 5061-5068.	1.7	117
11	Increased tolerance to oxygen and glucose deprivation in astrocytes from Na ⁺ /H ⁺ exchanger isoform 1 null mice. <i>American Journal of Physiology - Cell Physiology</i> , 2004, 287, C12-C21.	2.1	117
12	The role of Na ⁺ -K ⁺ -Cl ⁻ transporter in cerebral ischemia. <i>Neurological Research</i> , 2005, 27, 280-286.	0.6	111
13	Decreased Neuronal Death in Na ⁺ /H ⁺ Exchanger Isoform 1-Null Mice after In Vitro and In Vivo Ischemia. <i>Journal of Neuroscience</i> , 2005, 25, 11256-11268.	1.7	110
14	Na ⁺ -K ⁺ -Cl ⁻ Cotransporter in Rat Focal Cerebral Ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2001, 21, 711-721.	2.4	103
15	Docosahexaenoic Acid Reduces ER Stress and Abnormal Protein Accumulation and Improves Neuronal Function Following Traumatic Brain Injury. <i>Journal of Neuroscience</i> , 2014, 34, 3743-3755.	1.7	103
16	Na ⁺ -K ⁺ -2Cl ⁻ Cotransporter in Immature Cortical Neurons: A Role in Intracellular Cl ⁻ Regulation. <i>Journal of Neurophysiology</i> , 1999, 81, 1939-1948.	0.9	102
17	K-Cl cotransporters, cell volume homeostasis, and neurological disease. <i>Trends in Molecular Medicine</i> , 2015, 21, 513-523.	3.5	102
18	Proton-sensitive cation channels and ion exchangers in ischemic brain injury: New therapeutic targets for stroke?. <i>Progress in Neurobiology</i> , 2014, 115, 189-209.	2.8	98

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19	Expression of Na ⁺ -K ⁺ -Cl ⁻ cotransporter in rat brain during development and its localization in mature astrocytes. <i>Brain Research</i> , 2001, 911, 43-55.	1.1	90
20	Reactive Astrocytes in Glioblastoma Multiforme. <i>Molecular Neurobiology</i> , 2018, 55, 6927-6938.	1.9	83
21	Activation of Microglia Depends on Na ⁺ /H ⁺ Exchange-Mediated H ⁺ Homeostasis. <i>Journal of Neuroscience</i> , 2010, 30, 15210-15220.	1.7	82
22	Administration of DHA Reduces Endoplasmic Reticulum Stress-Associated Inflammation and Alters Microglial or Macrophage Activation in Traumatic Brain Injury. <i>ASN Neuro</i> , 2015, 7, 175909141561896.	1.5	79
23	Inhibition of WNK3 Kinase Signaling Reduces Brain Damage and Accelerates Neurological Recovery After Stroke. <i>Stroke</i> , 2015, 46, 1956-1965.	1.0	78
24	Upregulation of NHE1 protein expression enables glioblastoma cells to escape TMZ-mediated toxicity via increased H ⁺ extrusion, cell migration and survival. <i>Carcinogenesis</i> , 2014, 35, 2014-2024.	1.3	77
25	Selective knockout of astrocytic Na ⁺ /H ⁺ exchanger isoform 1 reduces astrogliosis, BBB damage, infarction, and improves neurological function after ischemic stroke. <i>Glia</i> , 2018, 66, 126-144.	2.5	74
26	Ischemia-induced Changes in Cerebral Mitochondrial Free Fatty Acids, Phospholipids, and Respiration in the Rat. <i>Journal of Neurochemistry</i> , 1994, 62, 1921-1928.	2.1	73
27	WNK1-OSR1 kinase-mediated phospho-activation of Na ⁺ -K ⁺ -2Cl ⁻ cotransporter facilitates glioma migration. <i>Molecular Cancer</i> , 2014, 13, 31.	7.9	72
28	Modulation of brain cation-Cl ⁻ cotransport via the SPAK kinase inhibitor ZT-1a. <i>Nature Communications</i> , 2020, 11, 78.	5.8	69
29	Intracellular pH reduction prevents excitotoxic and ischemic neuronal death by inhibiting NADPH oxidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E4362-8.	3.3	65
30	Activation of endothelial Wnt/ β -catenin signaling by protective astrocytes repairs BBB damage in ischemic stroke. <i>Progress in Neurobiology</i> , 2021, 199, 101963.	2.8	64
31	GABA-Mediated Trophic Effect on Oligodendrocytes Requires Na ⁺ -K ⁺ -2Cl ⁻ Cotransport Activity. <i>Journal of Neurophysiology</i> , 2003, 90, 1257-1265.	0.9	61
32	Role of Na ⁺ -K ⁺ -Cl ⁻ cotransport and Na ⁺ /Ca ²⁺ exchange in mitochondrial dysfunction in astrocytes following in vitro ischemia. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 292, C1113-C1122.	2.1	60
33	Role of sodium/hydrogen exchanger isoform 1 in microglial activation and proinflammatory responses in ischemic brains. <i>Journal of Neurochemistry</i> , 2011, 119, 124-135.	2.1	59
34	Emerging roles of Na ⁺ /H ⁺ exchangers in epilepsy and developmental brain disorders. <i>Progress in Neurobiology</i> , 2016, 138-140, 19-35.	2.8	58
35	Inhibition of Na ⁺ -K ⁺ -2Cl ⁻ Cotransporter isoform 1 Accelerates Temozolomidemediated Apoptosis in Glioblastoma Cancer Cells. <i>Cellular Physiology and Biochemistry</i> , 2012, 30, 33-48.	1.1	54
36	Glioma-mediated microglial activation promotes glioma proliferation and migration: roles of Na ⁺ /H ⁺ exchanger isoform 1. <i>Carcinogenesis</i> , 2016, 37, 839-851.	1.3	54

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37	ERK1/2-p90RSK-mediated Phosphorylation of Na ⁺ /H ⁺ Exchanger Isoform 1. <i>Journal of Biological Chemistry</i> , 2007, 282, 28274-28284.	1.6	49
38	ER Stress and Effects of DHA as an ER Stress Inhibitor. <i>Translational Stroke Research</i> , 2013, 4, 635-642.	2.3	49
39	Chitinase-3-like 1 protein complexes modulate macrophage-mediated immune suppression in glioblastoma. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	49
40	AMPA-mediated excitotoxicity in oligodendrocytes: role for Na ⁺ -K ⁺ -Cl ⁻ co-transport and reversal of Na ⁺ /Ca ²⁺ exchanger. <i>Journal of Neurochemistry</i> , 2007, 102, 1783-1795.	2.1	48
41	Chronic Neurological Deficits in Mice after Perinatal Hypoxia and Ischemia Correlate with Hemispheric Tissue Loss and White Matter Injury Detected by MRI. <i>Developmental Neuroscience</i> , 2011, 33, 270-279.	1.0	48
42	DHA inhibits ER Ca ²⁺ release and ER stress in astrocytes following <i>in vitro</i> ischemia. <i>Journal of Neurochemistry</i> , 2012, 120, 622-630.	2.1	48
43	Physiology and Pathophysiology of Na ⁺ /H ⁺ Exchange Isoform 1 in the Central Nervous System. <i>Current Neurovascular Research</i> , 2007, 4, 205-215.	0.4	47
44	Inhibition of Na ⁺ -K ⁺ -2Cl ⁻ cotransporter attenuates blood-brain-barrier disruption in a mouse model of traumatic brain injury. <i>Neurochemistry International</i> , 2017, 111, 23-31.	1.9	47
45	Blockade of Na/H exchanger stimulates glioma tumor immunogenicity and enhances combinatorial TMZ and anti-PD-1 therapy. <i>Cell Death and Disease</i> , 2018, 9, 1010.	2.7	47
46	Inhibition of Na ⁺ /H ⁺ Exchanger Isoform 1 Is Neuroprotective in Neonatal Hypoxic Ischemic Brain Injury. <i>Antioxidants and Redox Signaling</i> , 2011, 14, 1803-1813.	2.5	46
47	Peripheral motor neuropathy is associated with defective kinase regulation of the KCC3 cotransporter. <i>Science Signaling</i> , 2016, 9, ra77.	1.6	46
48	Effects of DHA on Hippocampal Autophagy and Lysosome Function After Traumatic Brain Injury. <i>Molecular Neurobiology</i> , 2018, 55, 2454-2470.	1.9	46
49	Elevated Na/H exchanger 1 (SLC9A1) emerges as a marker for tumorigenesis and prognosis in gliomas. <i>Journal of Experimental and Clinical Cancer Research</i> , 2018, 37, 255.	3.5	45
50	Glial Na ⁺ -dependent ion transporters in pathophysiological conditions. <i>Glia</i> , 2016, 64, 1677-1697.	2.5	43
51	Selective role of Na ⁺ /H ⁺ exchanger in <i>Cx3cr1</i> microglial activation, white matter demyelination, and post-stroke function recovery. <i>Glia</i> , 2018, 66, 2279-2298.	2.5	43
52	Roles of glial ion transporters in brain diseases. <i>Glia</i> , 2020, 68, 472-494.	2.5	43
53	Stimulation of astrocyte Na ⁺ /H ⁺ exchange activity in response to <i>in vitro</i> ischemia depends in part on activation of ERK1/2. <i>American Journal of Physiology - Cell Physiology</i> , 2005, 289, C934-C945.	2.1	41
54	Gene inactivation of Na ⁺ /H ⁺ exchanger isoform 1 attenuates apoptosis and mitochondrial damage following transient focal cerebral ischemia. <i>European Journal of Neuroscience</i> , 2008, 28, 51-61.	1.2	40

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55	Cerebral Hypoperfusion and Other Shared Brain Pathologies in Ischemic Stroke and Alzheimer's Disease. <i>Translational Stroke Research</i> , 2018, 9, 238-250.	2.3	40
56	Ion channels and transporters in microglial function in physiology and brain diseases. <i>Neurochemistry International</i> , 2021, 142, 104925.	1.9	39
57	Functional kinomics establishes a critical node of volume-sensitive cation-Cl ⁻ cotransporter regulation in the mammalian brain. <i>Scientific Reports</i> , 2016, 6, 35986.	1.6	38
58	Ion Transporters in Brain Tumors. <i>Current Medicinal Chemistry</i> , 2015, 22, 1171-1181.	1.2	38
59	A Novel Na ⁺ -K ⁺ -Cl ⁻ Cotransporter 1 Inhibitor STS66* Reduces Brain Damage in Mice After Ischemic Stroke. <i>Stroke</i> , 2019, 50, 1021-1025.	1.0	37
60	Attenuating vascular stenosis-induced astrogliosis preserves white matter integrity and cognitive function. <i>Journal of Neuroinflammation</i> , 2021, 18, 187.	3.1	36
61	Generation of WNK1 knockout cell lines by CRISPR/Cas-mediated genome editing. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 308, F366-F376.	1.3	35
62	The WNK-SPAK/OSR1 Kinases and the Cation-Chloride Cotransporters as Therapeutic Targets for Neurological Diseases. , 2019, 10, 626.		35
63	Targeting a Potassium Channel/Syntaxin Interaction Ameliorates Cell Death in Ischemic Stroke. <i>Journal of Neuroscience</i> , 2017, 37, 5648-5658.	1.7	33
64	Elevated microglial oxidative phosphorylation and phagocytosis stimulate post-stroke brain remodeling and cognitive function recovery in mice. <i>Communications Biology</i> , 2022, 5, 35.	2.0	33
65	Deletion of the WNK3-SPAK kinase complex in mice improves radiographic and clinical outcomes in malignant cerebral edema after ischemic stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 550-563.	2.4	31
66	Sustained Na ⁺ /H ⁺ Exchanger Activation Promotes Gliotransmitter Release from Reactive Hippocampal Astrocytes following Oxygen-Glucose Deprivation. <i>PLoS ONE</i> , 2014, 9, e84294.	1.1	30
67	The Role of Na ⁺ /H ⁺ Exchanger Isoform 1 in Inflammatory Responses: Maintaining H ⁺ Homeostasis of Immune Cells. <i>Advances in Experimental Medicine and Biology</i> , 2013, 961, 411-418.	0.8	28
68	Ischemic Injury-Induced CaMKII ^α and CaMKII ^β Confer Neuroprotection Through the NF- κ B Signaling Pathway. <i>Molecular Neurobiology</i> , 2019, 56, 2123-2136.	1.9	28
69	Regulated phosphorylation of the K-Cl cotransporter KCC3 is a molecular switch of intracellular potassium content and cell volume homeostasis. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 255.	1.8	27
70	Calcium/Calmodulin-Dependent Protein Kinase II in Cerebrovascular Diseases. <i>Translational Stroke Research</i> , 2021, 12, 513-529.	2.3	26
71	Blocking NHE1 stimulates glioma tumor immunity by restoring OXPHOS function of myeloid cells. <i>Theranostics</i> , 2021, 11, 1295-1309.	4.6	24
72	Stimulation of Na ⁺ /H ⁺ Exchanger Isoform 1 Promotes Microglial Migration. <i>PLoS ONE</i> , 2013, 8, e74201.	1.1	23

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73	WNK-Cab39-NKCC1 signaling increases the susceptibility to ischemic brain damage in hypertensive rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 2780-2794.	2.4	23
74	Effect of the Platelet-Activating Factor Antagonist BN 50739 and Its Diluents on Mitochondrial Respiration and Membrane Lipids During and Following Cerebral Ischemia. <i>Journal of Neurochemistry</i> , 1994, 62, 1929-1938.	2.1	22
75	p90 ^{RSK} activation contributes to cerebral ischemic damage via phosphorylation of Na ⁺ /H ⁺ exchanger isoform 1. <i>Journal of Neurochemistry</i> , 2010, 114, 1476-1486.	2.1	22
76	Na ⁺ /H ⁺ exchanger in the regulation of platelet activation and paradoxical effects of cariporide. <i>Experimental Neurology</i> , 2015, 272, 11-16.	2.0	22
77	Blockade of Cell Volume Regulatory Protein NKCC1 Increases TMZ-Induced Glioma Apoptosis and Reduces Astrogliosis. <i>Molecular Cancer Therapeutics</i> , 2020, 19, 1550-1561.	1.9	22
78	Targeted disruption of Kv2.1-VAPA association provides neuroprotection against ischemic stroke in mice by declustering Kv2.1 channels. <i>Science Advances</i> , 2020, 6, .	4.7	21
79	Synthetic analogues of the montanine-type alkaloids with activity against apoptosis-resistant cancer cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 589-593.	1.0	19
80	Inhibiting the Na ⁺ /H ⁺ exchanger reduces reperfusion injury a small animal MRI study. <i>Frontiers in Bioscience - Elite</i> , 2011, E3, 81-88.	0.9	18
81	The Role of Metabolic Plasticity of Tumor-Associated Macrophages in Shaping the Tumor Microenvironment Immunity. <i>Cancers</i> , 2022, 14, 3331.	1.7	17
82	Antisecretory Factor-Mediated Inhibition of Cell Volume Dynamics Produces Antitumor Activity in Glioblastoma. <i>Molecular Cancer Research</i> , 2018, 16, 777-790.	1.5	16
83	Excessive Na ⁺ /H ⁺ Exchange in Disruption of Dendritic Na ⁺ and Ca ²⁺ Homeostasis and Mitochondrial Dysfunction following in Vitro Ischemia. <i>Journal of Biological Chemistry</i> , 2010, 285, 35155-35168.	1.6	15
84	Role of SPAK-NKCC1 signaling cascade in the choroid plexus blood-CSF barrier damage after stroke. <i>Journal of Neuroinflammation</i> , 2022, 19, 91.	3.1	15
85	Role of NKCC1 Activity in Glioma K ⁺ Homeostasis and Cell Growth: New Insights With the Bumetanide-Derivative STS66. <i>Frontiers in Physiology</i> , 2020, 11, 911.	1.3	13
86	Snapshot of microglial physiological functions. <i>Neurochemistry International</i> , 2021, 144, 104960.	1.9	12
87	Temporal Lobe Epilepsy, Stroke, and Traumatic Brain Injury: Mechanisms of Hyperpolarized, Depolarized, and Flow-Through Ion Channels Utilized as Tri-Coordinate Biomarkers of Electrophysiologic Dysfunction. <i>OBM Neurobiology</i> , 2018, 2, 1-1.	0.2	10
88	Dysregulation of Diverse Ion Transport Pathways Controlling Cell Volume Homeostasis Contribute to Neuroglial Cell Injury Following Ischemic Stroke. <i>Translational Stroke Research</i> , 2014, 5, 1-2.	2.3	9
89	Inhibition of Na ⁺ /H ⁺ exchanger modulates microglial activation and scar formation following microelectrode implantation. <i>Journal of Neural Engineering</i> , 2021, 18, 045001.	1.8	8
90	NF- κ B Signaling-Mediated Activation of WNK-SPAK-NKCC1 Cascade in Worsened Stroke Outcomes of Ang II-Hypertensive Mice. <i>Stroke</i> , 2022, 53, 1720-1734.	1.0	5

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91	Pharmacological inhibition of cation-chloride cotransporters for neurological diseases. <i>Neural Regeneration Research</i> , 2015, 10, 1924.	1.6	2
92	Quantitative Sodium (²³ Na) MRI in Pediatric Gliomas: Initial Experience. <i>Diagnostics</i> , 2022, 12, 1223.	1.3	2
93	Cell Volume Regulation in Immune Cell Function, Activation and Survival. <i>Cellular Physiology and Biochemistry</i> , 2021, 55, 71-88.	1.1	1
94	The Na ⁺ /H ⁺ Exchanger-1 as a New Molecular Target in Stroke Interventions. , 0, , .		1
95	ATPS-63 OSMOTIC SWELLING REGULATES TUMOR GROWTH AND DRUG UPTAKE IN HUMAN GLIOBLASTOMA. <i>Neuro-Oncology</i> , 2015, 17, v32.1-v32.	0.6	0
96	EXTH-23. ANTISECRETORY FACTOR-MEDIATED LOWERING OF INTERSTITIAL FLUID PRESSURE PRODUCES ANTI-TUMOR ACTIVITY IN GLIOBLASTOMA. <i>Neuro-Oncology</i> , 2017, 19, vi77-vi77.	0.6	0
97	TMIC-19. H ⁺ EXTRUSION PROTEIN NA/H EXCHANGER IN METABOLIC POLARIZATION OF GLIOMA-ASSOCIATED MICROGLIA/MACROPHAGES AND TUMOR IMMUNITY. <i>Neuro-Oncology</i> , 2019, 21, vi251-vi251.	0.6	0
98	CSIG-01. NA-K-CL COTRANSPORTER PROTEIN IN THE PATHOGENESIS OF LOW-GRADE GLIOMAS. <i>Neuro-Oncology</i> , 2019, 21, vi44-vi44.	0.6	0
99	WNK-SPAK/OSR1-CCC signaling in ischemic brain damage. , 2020, , 431-461.		0
100	Effects of novel NKCC1 inhibitors on reducing brain damage and neurological deficits after ischemic stroke in mice. <i>FASEB Journal</i> , 2018, 32, 824.2.	0.2	0