

Brij Bhan Singh

List of Publications by Year in descending order

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112
papers

6,609
citations

57719

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64755

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114
all docs

114
docs citations

114
times ranked

6699
citing authors

#	ARTICLE	IF	CITATIONS
1	Assembly of Trp1 in a Signaling Complex Associated with Caveolin-Scaffolding Lipid Raft Domains. <i>Journal of Biological Chemistry</i> , 2000, 275, 11934-11942.	1.6	373
2	Dynamic Assembly of TRPC1-STIM1-Orai1 Ternary Complex Is Involved in Store-operated Calcium Influx. <i>Journal of Biological Chemistry</i> , 2007, 282, 9105-9116.	1.6	358
3	Trp1, a Candidate Protein for the Store-operated Ca ²⁺ Influx Mechanism in Salivary Gland Cells. <i>Journal of Biological Chemistry</i> , 2000, 275, 3403-3411.	1.6	255
4	Duration of Antibiotic Therapy for Early Lyme Disease. <i>Annals of Internal Medicine</i> , 2003, 138, 697.	2.0	246
5	Lipid rafts/caveolae as microdomains of calcium signaling. <i>Cell Calcium</i> , 2009, 45, 625-633.	1.1	232
6	A Role for AQP5 in Activation of TRPV4 by Hypotonicity. <i>Journal of Biological Chemistry</i> , 2006, 281, 15485-15495.	1.6	221
7	Attenuation of store-operated Ca ²⁺ current impairs salivary gland fluid secretion in TRPC1(Δ ¹⁻¹⁰⁴) mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 17542-17547.	3.3	200
8	Neurotoxin-induced ER stress in mouse dopaminergic neurons involves downregulation of TRPC1 and inhibition of AKT/mTOR signaling. <i>Journal of Clinical Investigation</i> , 2012, 122, 1354-1367.	3.9	197
9	Caveolin-1 Contributes to Assembly of Store-operated Ca ²⁺ Influx Channels by Regulating Plasma Membrane Localization of TRPC1. <i>Journal of Biological Chemistry</i> , 2003, 278, 27208-27215.	1.6	189
10	VAMP2-Dependent Exocytosis Regulates Plasma Membrane Insertion of TRPC3 Channels and Contributes to Agonist-Stimulated Ca ²⁺ Influx. <i>Molecular Cell</i> , 2004, 15, 635-646.	4.5	185
11	TRPC1 Is Required for Functional Store-operated Ca ²⁺ Channels. <i>Journal of Biological Chemistry</i> , 2003, 278, 11337-11343.	1.6	164
12	Lipid Rafts Determine Clustering of STIM1 in Endoplasmic Reticulum-Plasma Membrane Junctions and Regulation of Store-operated Ca ²⁺ Entry (SOCE). <i>Journal of Biological Chemistry</i> , 2008, 283, 17333-17340.	1.6	161
13	Molecular Analysis of a Store-operated and 2-Acetyl-sn-glycerol-sensitive Non-selective Cation Channel. <i>Journal of Biological Chemistry</i> , 2005, 280, 21600-21606.	1.6	151
14	Resveratrol activates autophagic cell death in prostate cancer cells via downregulation of STIM1 and the mTOR pathway. <i>Molecular Carcinogenesis</i> , 2016, 55, 818-831.	1.3	136
15	Calmodulin Regulates Ca ²⁺ -Dependent Feedback Inhibition of Store-Operated Ca ²⁺ Influx by Interaction with a Site in the C Terminus of TrpC1. <i>Molecular Cell</i> , 2002, 9, 739-750.	4.5	135
16	Stabilization of Cortical Actin Induces Internalization of Transient Receptor Potential 3 (Trp3)-associated Caveolar Ca ²⁺ Signaling Complex and Loss of Ca ²⁺ Influx without Disruption of Trp3-Inositol Trisphosphate Receptor Association. <i>Journal of Biological Chemistry</i> , 2001, 276, 42401-42408.	1.6	130
17	Activation of TRPC1 by STIM1 in ER-PM microdomains involves release of the channel from its scaffold caveolin-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 20087-20092.	3.3	122
18	TRPC1-mediated Inhibition of 1-Methyl-4-phenylpyridinium Ion Neurotoxicity in Human SH-SY5Y Neuroblastoma Cells. <i>Journal of Biological Chemistry</i> , 2005, 280, 2132-2140.	1.6	102

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19	Increase in Serum Ca ²⁺ /Mg ²⁺ Ratio Promotes Proliferation of Prostate Cancer Cells by Activating TRPM7 Channels. <i>Journal of Biological Chemistry</i> , 2013, 288, 255-263.	1.6	100
20	Metallothionein-mediated neuroprotection in genetically engineered mouse models of Parkinson's disease. <i>Molecular Brain Research</i> , 2005, 134, 67-75.	2.5	89
21	The Zinc Finger Cluster Domain of RanBP2 Is a Specific Docking Site for the Nuclear Export Factor, Exportin-1. <i>Journal of Biological Chemistry</i> , 1999, 274, 37370-37378.	1.6	88
22	The Docking of Kinesins, KIF5B and KIF5C, to Ran-binding Protein 2 (RanBP2) Is Mediated via a Novel RanBP2 Domain. <i>Journal of Biological Chemistry</i> , 2001, 276, 41594-41602.	1.6	85
23	Elevated Inflammatory Response in Caveolin-1-deficient Mice with <i>Pseudomonas aeruginosa</i> Infection Is Mediated by STAT3 Protein and Nuclear Factor κ B (NF- κ B). <i>Journal of Biological Chemistry</i> , 2011, 286, 21814-21825.	1.6	82
24	TRPC1 inhibits apoptotic cell degeneration induced by dopaminergic neurotoxin MPTP/MPP ⁺ . <i>Cell Calcium</i> , 2009, 46, 209-218.	1.1	78
25	Up-Regulation of Transient Receptor Potential Canonical 1 (TRPC1) following Sarco(endo)plasmic Reticulum Ca ²⁺ ATPase 2 Gene Silencing Promotes Cell Survival: A Potential Role for TRPC1 in Darier's Disease. <i>Molecular Biology of the Cell</i> , 2006, 17, 4446-4458.	0.9	75
26	Tumor necrosis factor alpha stimulates NMDA receptor activity in mouse cortical neurons resulting in ERK-dependent death. <i>Journal of Neurochemistry</i> , 2007, 100, 1407-1420.	2.1	74
27	Cholesterol-induced activation of TRPM7 regulates cell proliferation, migration, and viability of human prostate cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 1839-1850.	1.9	74
28	TRPM2 Promotes Neurotoxin MPP ⁺ /MPTP-Induced Cell Death. <i>Molecular Neurobiology</i> , 2018, 55, 409-420.	1.9	72
29	Cytoskeletal Reorganization Internalizes Multiple Transient Receptor Potential Channels and Blocks Calcium Entry into Human Neutrophils. <i>Journal of Immunology</i> , 2004, 172, 601-607.	0.4	71
30	The oxysterol 27-hydroxycholesterol increases β 2-amyloid and oxidative stress in retinal pigment epithelial cells. <i>BMC Ophthalmology</i> , 2010, 10, 22.	0.6	71
31	Calcium Signaling Regulates Autophagy and Apoptosis. <i>Cells</i> , 2021, 10, 2125.	1.8	70
32	Inhibition of L-Type Ca ²⁺ Channels by TRPC1-STIM1 Complex Is Essential for the Protection of Dopaminergic Neurons. <i>Journal of Neuroscience</i> , 2017, 37, 3364-3377.	1.7	69
33	Trp1-dependent enhancement of salivary gland fluid secretion: role of store-operated calcium entry. <i>FASEB Journal</i> , 2001, 15, 1652-1654.	0.2	67
34	TRPC Channels and their Implications for Neurological Diseases. <i>CNS and Neurological Disorders - Drug Targets</i> , 2010, 9, 94-104.	0.8	61
35	Cholesterol-enriched diet causes age-related macular degeneration-like pathology in rabbit retina. <i>BMC Ophthalmology</i> , 2011, 11, 22.	0.6	60
36	Submergence tolerance of rainfed lowland rice: search for physiological marker traits. <i>Journal of Plant Physiology</i> , 2001, 158, 883-889.	1.6	58

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37	TRPC1 protects human SH-SY5Y cells against salsolinol-induced cytotoxicity by inhibiting apoptosis. Brain Research, 2006, 1099, 141-149.	1.1	57
38	TRPM7 and its role in neurodegenerative diseases. Channels, 2015, 9, 253-261.	1.5	57
39	Plasma Membrane Localization of TRPC Channels: Role of Caveolar Lipid Rafts. Novartis Foundation Symposium, 2008, , 63-74.	1.2	54
40	Relocalization of STIM1 for Activation of Store-operated Ca ²⁺ Entry Is Determined by the Depletion of Subplasma Membrane Endoplasmic Reticulum Ca ²⁺ Store. Journal of Biological Chemistry, 2007, 282, 12176-12185.	1.6	53
41	Impairment of TRPC1-“STIM1 channel assembly and AQP5 translocation compromise agonist-stimulated fluid secretion in mice lacking caveolin1. Journal of Cell Science, 2013, 126, 667-675.	1.2	51
42	M1 Macrophage Polarization Is Dependent on TRPC1-Mediated Calcium Entry. IScience, 2018, 8, 85-102.	1.9	50
43	Plasma membrane localization and function of TRPC1 is dependent on its interaction with β -tubulin in retinal epithelium cells. Visual Neuroscience, 2005, 22, 163-170.	0.5	49
44	Functional role of TRP channels in modulating ER stress and Autophagy. Cell Calcium, 2016, 60, 123-132.	1.1	49
45	Mitochondrial pyruvate and fatty acid flux modulate MICU1-dependent control of MCU activity. Science Signaling, 2020, 13, .	1.6	48
46	Emerging Roles of Canonical TRP Channels in Neuronal Function. Advances in Experimental Medicine and Biology, 2011, 704, 573-593.	0.8	46
47	TRPC3 Controls Agonist-stimulated Intracellular Ca ²⁺ Release by Mediating the Interaction between Inositol 1,4,5-Trisphosphate Receptor and RACK1. Journal of Biological Chemistry, 2008, 283, 32821-32830.	1.6	44
48	Caveolin-1 plays a critical role in host immunity against <i>Klebsiella pneumoniae</i> by regulating STAT5 and Akt activity. European Journal of Immunology, 2012, 42, 1500-1511.	1.6	44
49	TRPC3 regulates release of brain-derived neurotrophic factor from human airway smooth muscle. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 2953-2960.	1.9	43
50	TGF β -induced epithelial-to-mesenchymal transition in prostate cancer cells is mediated via TRPM7 expression. Molecular Carcinogenesis, 2018, 57, 752-761.	1.3	42
51	TRPC1 regulates calcium-activated chloride channels in salivary gland cells. Journal of Cellular Physiology, 2015, 230, 2848-2856.	2.0	41
52	Loss-of-Function Mutations in FRRS1L Lead to an Epileptic-Dyskinetic Encephalopathy. American Journal of Human Genetics, 2016, 98, 1249-1255.	2.6	40
53	TRPC1-STIM1 activation modulates transforming growth factor β -induced epithelial-to-mesenchymal transition. Oncotarget, 2016, 7, 80554-80567.	0.8	40
54	The TR (i)P to Ca ²⁺ signaling just got STIMy: an update (i) on STIM1 activated TRPC channels. Frontiers in Bioscience - Landmark, 2012, 17, 805.	3.0	39

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55	Expression of Truncated Transient Receptor Potential protein 1 \pm (Trp1 \pm). Journal of Biological Chemistry, 2000, 275, 36483-36486.	1.6	38
56	Molecular cloning and functional characterisation of a glucose transporter, CaHGT1, of <i>Candida albicans</i> . FEMS Microbiology Letters, 2000, 182, 15-21.	0.7	35
57	Does a higher ratio of serum calcium to magnesium increase the risk for postmenopausal breast cancer?. Medical Hypotheses, 2010, 75, 315-318.	0.8	35
58	TRPC1-mediated Ca ²⁺ entry is essential for the regulation of hypoxia and nutrient depletion-dependent autophagy. Cell Death and Disease, 2015, 6, e1674-e1674.	2.7	35
59	Ca ²⁺ Signaling: An Outlook on the Characterization of Ca ²⁺ Channels and Their Importance in Cellular Functions. Advances in Experimental Medicine and Biology, 2012, 740, 143-157.	0.8	34
60	Oxidant sensor cation channel TRPM2 regulates neutrophil extracellular trap formation and protects against pneumoseptic bacterial infection. FASEB Journal, 2018, 32, 6848-6859.	0.2	32
61	Inhibition of store-operated calcium entry in microglia by helminth factors: implications for immune suppression in neurocysticercosis. Journal of Neuroinflammation, 2014, 11, 210.	3.1	31
62	Transient Receptor Potential Channel 1 Deficiency Impairs Host Defense and Proinflammatory Responses to Bacterial Infection by Regulating Protein Kinase C \pm Signaling. Molecular and Cellular Biology, 2015, 35, 2729-2739.	1.1	31
63	Darier's disease: a calcium-signaling perspective. Cellular and Molecular Life Sciences, 2008, 65, 205-211.	2.4	30
64	Plasma membrane localization of TRPC channels: role of caveolar lipid rafts. Novartis Foundation Symposium, 2004, 258, 63-70; discussion 70-4, 98-102, 263-6.	1.2	30
65	Physiological Function and Characterization of TRPCs in Neurons. Cells, 2014, 3, 455-475.	1.8	29
66	The TRPC1 Ca ²⁺ -permeable channel inhibits exercise-induced protection against high-fat diet-induced obesity and type II diabetes. Journal of Biological Chemistry, 2017, 292, 20799-20807.	1.6	29
67	Dopaminergic neurotoxins induce cell death by attenuating NF κ B-mediated regulation of TRPC1 expression and autophagy. FASEB Journal, 2018, 32, 1640-1652.	0.2	29
68	ATP-dependent Activation of KCa and ROMK-type KATP Channels in Human Submandibular Gland Ductal Cells. Journal of Biological Chemistry, 1999, 274, 25121-25129.	1.6	28
69	SARS-CoV-2 infection enhances mitochondrial PTP complex activity to perturb cardiac energetics. IScience, 2022, 25, 103722.	1.9	27
70	The calcium channel proteins ORAI3 and STIM1 mediate TGF- β 2 induced <i>Snai1</i> expression. Oncotarget, 2018, 9, 29468-29483.	0.8	26
71	Helminth Induced Suppression of Macrophage Activation Is Correlated with Inhibition of Calcium Channel Activity. PLoS ONE, 2014, 9, e101023.	1.1	25
72	Clavulanic acid inhibits MPP ⁺ -induced ROS generation and subsequent loss of dopaminergic cells. Brain Research, 2012, 1469, 129-135.	1.1	23

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73	Clavulanic acid increases dopamine release in neuronal cells through a mechanism involving enhanced vesicle trafficking. <i>Neuroscience Letters</i> , 2011, 504, 170-175.	1.0	22
74	Neurological and Motor Disorders: Neuronal Store-Operated Ca ²⁺ Signaling: An Overview and Its Function. <i>Advances in Experimental Medicine and Biology</i> , 2017, 993, 535-556.	0.8	22
75	Epigenetic Modulation of Microglial Inflammatory Gene Loci in Helminth-Induced Immune Suppression. <i>ASN Neuro</i> , 2015, 7, 175909141559212.	1.5	20
76	Magnesium-Induced Cell Survival Is Dependent on TRPM7 Expression and Function. <i>Molecular Neurobiology</i> , 2020, 57, 528-538.	1.9	20
77	Loss of Ca ²⁺ entry via Orai-TRPC1 induces ER stress that initiates immune activation in macrophage cells. <i>Journal of Cell Science</i> , 2019, 133, .	1.2	19
78	TRPC Channels and Parkinson's Disease. <i>Advances in Experimental Medicine and Biology</i> , 2017, 976, 85-94.	0.8	18
79	TRPC1 intensifies house dust mite-induced airway remodeling by facilitating epithelial-to-mesenchymal transition and STAT3/NF- κ B signaling. <i>FASEB Journal</i> , 2019, 33, 1074-1085.	0.2	18
80	Effect of cell swelling on ER/PM junctional interactions and channel assembly involved in SOCE. <i>Cell Calcium</i> , 2010, 47, 491-499.	1.1	15
81	Resolving macrophage polarization through distinct Ca ²⁺ entry channel that maintains intracellular signaling and mitochondrial bioenergetics. <i>IScience</i> , 2021, 24, 103339.	1.9	15
82	TRPC1 expression and function inhibit ER stress and cell death in salivary gland cells. <i>FASEB BioAdvances</i> , 2019, 1, 40-50.	1.3	14
83	Serum calcium levels, TRPM7, TRPC1, microcalcifications, and breast cancer using breast imaging reporting and data system scores. <i>Breast Cancer: Targets and Therapy</i> , 2012, 2013, 1.	1.0	13
84	MPP+ decreases store-operated calcium entry and TRPC1 expression in Mesenchymal Stem Cell derived dopaminergic neurons. <i>Scientific Reports</i> , 2018, 8, 11715.	1.6	13
85	Calcium channels and their role in regenerative medicine. <i>World Journal of Stem Cells</i> , 2021, 13, 260-280.	1.3	12
86	Chloride channel accessory 1 integrates chloride channel activity and mTORC1 in aging-related kidney injury. <i>Aging Cell</i> , 2021, 20, e13407.	3.0	11
87	Ca ²⁺ entry via TRPC1 is essential for cellular differentiation and modulates secretion via the SNARE complex. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	10
88	Differential Effects of the Estrogen Receptor Agonist Estradiol on Toxicity Induced by Enzymatically-Derived or Autoxidation-Derived Oxysterols in Human ARPE-19 Cells. <i>Current Eye Research</i> , 2013, 38, 1159-1171.	0.7	8
89	Dynamic assembly of TRPC1-STIM1-Orai1 ternary complex is involved in store-operated calcium influx. <i>Journal of Biological Chemistry</i> , 2007, 282, 27556.	1.6	8
90	Helminth derived factors inhibit neutrophil extracellular trap formation and inflammation in bacterial peritonitis. <i>Scientific Reports</i> , 2021, 11, 12718.	1.6	7

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91	Valine 77 of heterocystous ferredoxin FdxH2 in <i>Anabaena variabilis</i> strain ATCC 29413 is critical for its oxygen sensitivity. <i>Molecular and Cellular Biochemistry</i> , 2001, 217, 137-142.	1.4	6
92	Isoproterenol-Dependent Activation of TRPM7 Protects Against Neurotoxin-Induced Loss of Neuroblastoma Cells. <i>Frontiers in Physiology</i> , 2020, 11, 305.	1.3	6
93	Sigma1 Receptor Inhibits TRPC1-Mediated Ca ²⁺ Entry That Promotes Dopaminergic Cell Death. <i>Cellular and Molecular Neurobiology</i> , 2021, 41, 1245-1255.	1.7	5
94	Trp1, a candidate protein for the store-operated Ca ²⁺ influx mechanism in salivary gland cells.. <i>Journal of Biological Chemistry</i> , 2000, 275, 9890-9891.	1.6	5
95	Spatial localization of SOCE channels and its modulators regulate neuronal physiology and contributes to pathology. <i>Current Opinion in Physiology</i> , 2020, 17, 50-62.	0.9	4
96	Molecular and Functional Determinants of Ca ²⁺ Signaling Microdomains. , 2010, , 237-253.		4
97	Differential activation of Ca ²⁺ influx channels modulate stem cell potency, their proliferation/viability and tissue regeneration. <i>Npj Regenerative Medicine</i> , 2021, 6, 67.	2.5	4
98	Increasing cytosolic Ca ²⁺ levels restore cell proliferation and stem cell potency in aged MSCs. <i>Stem Cell Research</i> , 2021, 56, 102560.	0.3	4
99	Automatic segmentation and band detection of protein images based on the standard deviation profile and its derivative. , 2007, , .		3
100	An Improved 1-D Gel Electrophoresis Image Analysis System. <i>Advances in Experimental Medicine and Biology</i> , 2010, 680, 609-617.	0.8	3
101	Decrease in alpha-1 antiproteinase antitrypsin is observed in primary Sjogren's syndrome condition. <i>Autoimmunity</i> , 2020, 53, 270-282.	1.2	3
102	Canonical Transient Receptor Potential Channel Expression, Regulation, and Function in Vascular and Airway Diseases. <i>Methods in Pharmacology and Toxicology</i> , 2012, , 61-87.	0.1	1
103	Lipidomic Analysis of TRPC1 Ca ²⁺ -Permeable Channel-Knock Out Mouse Demonstrates a Vital Role in Placental Tissue Sphingolipid and Triacylglycerol Homeostasis Under Maternal High-Fat Diet. <i>Frontiers in Endocrinology</i> , 2022, 13, 854269.	1.5	1
104	Role of membrane potential in ammonium inhibition of nitrogenase activity in the cultured cyanobiont <i>Nostoc ANTH</i> . <i>World Journal of Microbiology and Biotechnology</i> , 1994, 10, 600-600.	1.7	0
105	The Potential Role Of TRPC3's VAMP2 Interaction In Neurosecretion. <i>FASEB Journal</i> , 2006, 20, A117.	0.2	0
106	Compartmentalization of TRPC1's STIM1 interactions into lipid raft domains. <i>FASEB Journal</i> , 2007, 21, A1425.	0.2	0
107	The Localization And Function Of TRPC3 In Supra Optic Nucleus. <i>FASEB Journal</i> , 2007, 21, A256.	0.2	0
108	A bimodality of Caveolin1 in regulation of TRPC1 function. <i>FASEB Journal</i> , 2008, 22, 817.1.	0.2	0

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109	Store-operated calcium entry regulate mesenchymal stem cell proliferation. FASEB Journal, 2012, 26, 571.4.	0.2	0
110	Role of Caveolae in the Airway. , 2014, , 235-246.		0
111	Modulations of calcium in adipose tissue by TRPC1: a key player in obesity. FASEB Journal, 2017, 31, lb155.	0.2	0
112	Transient Receptor Potential Canonical Channel ¹ (TRPC1) KO Mice That Exercise Are Protected from High-Fat Diet-Induced Obesity and Type 2 Diabetes Risk. FASEB Journal, 2017, 31, lb280.	0.2	0