Brij Bhan Singh

List of Publications by Year
in descending order

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112 papers	6,609 citations	57758 44 h-index	64796 79 g-index
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. Journal of Biological Chemistry, 2000, 275, 11934-11942.	3.4	373
2	Dynamic Assembly of TRPC1-STIM1-Orai1 Ternary Complex Is Involved in Store-operated Calcium Influx. Journal of Biological Chemistry, 2007, 282, 9105-9116.	3.4	358
3	Trp1, a Candidate Protein for the Store-operated Ca2+Influx Mechanism in Salivary Gland Cells. Journal of Biological Chemistry, 2000, 275, 3403-3411.	3.4	255
4	Duration of Antibiotic Therapy for Early Lyme Disease. Annals of Internal Medicine, 2003, 138, 697.	3.9	246
5	Lipid rafts/caveolae as microdomains of calcium signaling. Cell Calcium, 2009, 45, 625-633.	2.4	232
6	A Role for AQP5 in Activation of TRPV4 by Hypotonicity. Journal of Biological Chemistry, 2006, 281, 15485-15495.	3.4	221
7	Attenuation of store-operated Ca ²⁺ current impairs salivary gland fluid secretion in TRPC1(â^'/â^') mice. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17542-17547.	7.1	200
8	Neurotoxin-induced ER stress in mouse dopaminergic neurons involves downregulation of TRPC1 and inhibition of AKT/mTOR signaling. Journal of Clinical Investigation, 2012, 122, 1354-1367.	8.2	197
9	Caveolin-1 Contributes to Assembly of Store-operated Ca2+ Influx Channels by Regulating Plasma Membrane Localization of TRPC1. Journal of Biological Chemistry, 2003, 278, 27208-27215.	3.4	189
10	VAMP2-Dependent Exocytosis Regulates Plasma Membrane Insertion of TRPC3 Channels and Contributes to Agonist-Stimulated Ca2+ Influx. Molecular Cell, 2004, 15, 635-646.	9.7	185
11	TRPC1 Is Required for Functional Store-operated Ca2+ Channels. Journal of Biological Chemistry, 2003, 278, 11337-11343.	3.4	164
12	Lipid Rafts Determine Clustering of STIM1 in Endoplasmic Reticulum-Plasma Membrane Junctions and Regulation of Store-operated Ca2+ Entry (SOCE). Journal of Biological Chemistry, 2008, 283, 17333-17340.	3.4	161
13	Molecular Analysis of a Store-operated and 2-Acetyl-sn-glycerol-sensitive Non-selective Cation Channel. Journal of Biological Chemistry, 2005, 280, 21600-21606.	3.4	151
14	Resveratrol activates autophagic cell death in prostate cancer cells via downregulation of STIM1 and the mTOR pathway. Molecular Carcinogenesis, 2016, 55, 818-831.	2.7	136
15	Calmodulin Regulates Ca2+-Dependent Feedback Inhibition of Store-Operated Ca2+ Influx by Interaction with a Site in the C Terminus of TrpC1. Molecular Cell, 2002, 9, 739-750.	9.7	135
16	Stabilization of Cortical Actin Induces Internalization of Transient Receptor Potential 3 (Trp3)-associated Caveolar Ca2+ Signaling Complex and Loss of Ca2+ Influx without Disruption of Trp3-Inositol Trisphosphate Receptor Association. Journal of Biological Chemistry, 2001, 276, 42401-42408.	3.4	130
17	Activation of TRPC1 by STIM1 in ER-PM microdomains involves release of the channel from its scaffold caveolin-1. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20087-20092.	7.1	122
18	TRPC1-mediated Inhibition of 1-Methyl-4-phenylpyridinium Ion Neurotoxicity in Human SH-SY5Y Neuroblastoma Cells. Journal of Biological Chemistry, 2005, 280, 2132-2140.	3.4	102

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19	Increase in Serum Ca2+/Mg2+ Ratio Promotes Proliferation of Prostate Cancer Cells by Activating TRPM7 Channels. Journal of Biological Chemistry, 2013, 288, 255-263.	3.4	100
20	Metallothionein-mediated neuroprotection in genetically engineered mouse models of Parkinson's disease. Molecular Brain Research, 2005, 134, 67-75.	2.3	89
21	The Zinc Finger Cluster Domain of RanBP2 Is a Specific Docking Site for the Nuclear Export Factor, Exportin-1. Journal of Biological Chemistry, 1999, 274, 37370-37378.	3.4	88
22	The Docking of Kinesins, KIF5B and KIF5C, to Ran-binding Protein 2 (RanBP2) Is Mediated via a Novel RanBP2 Domain. Journal of Biological Chemistry, 2001, 276, 41594-41602.	3.4	85
23	Elevated Inflammatory Response in Caveolin-1-deficient Mice with Pseudomonas aeruginosa Infection Is Mediated by STAT3 Protein and Nuclear Factor Î°B (NF-Î°B). Journal of Biological Chemistry, 2011, 286, 21814-21825.	3.4	82
24	TRPC1 inhibits apoptotic cell degeneration induced by dopaminergic neurotoxin MPTP/MPP+. Cell Calcium, 2009, 46, 209-218.	2.4	78
25	Up-Regulation of Transient Receptor Potential Canonical 1 (TRPC1) following Sarco(endo)plasmic Reticulum Ca2+ ATPase 2 Gene Silencing Promotes Cell Survival: A Potential Role for TRPC1 in Darier's Disease. Molecular Biology of the Cell, 2006, 17, 4446-4458.	2.1	75
26	Tumor necrosis factor alpha stimulates NMDA receptor activity in mouse cortical neurons resulting in ERK-dependent death. Journal of Neurochemistry, 2007, 100, 1407-1420.	3.9	74
27	Cholesterol-induced activation of TRPM7 regulates cell proliferation, migration, and viability of human prostate cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 1839-1850.	4.1	74
28	TRPM2 Promotes Neurotoxin MPP+/MPTP-Induced Cell Death. Molecular Neurobiology, 2018, 55, 409-420.	4.0	72
29	Cytoskeletal Reorganization Internalizes Multiple Transient Receptor Potential Channels and Blocks Calcium Entry into Human Neutrophils. Journal of Immunology, 2004, 172, 601-607.	0.8	71
30	The oxysterol 27-hydroxycholesterol increases Î²-amyloid and oxidative stress in retinal pigment epithelial cells. BMC Ophthalmology, 2010, 10, 22.	1.4	71
31	Calcium Signaling Regulates Autophagy and Apoptosis. Cells, 2021, 10, 2125.	4.1	70
32	Inhibition of L-Type Ca²⁺Channels by TRPC1-STIM1 Complex Is Essential for the Protection of Dopaminergic Neurons. Journal of Neuroscience, 2017, 37, 3364-3377.	3.6	69
33	Trp1â€dependent enhancement of salivary gland fluid secretion: role of storeâ€operated calcium entry. FASEB Journal, 2001, 15, 1652-1654.	0.5	67
34	TRPC Channels and their Implications for Neurological Diseases. CNS and Neurological Disorders - Drug Targets, 2010, 9, 94-104.	1.4	61
35	Cholesterol-enriched diet causes age-related macular degeneration-like pathology in rabbit retina. BMC Ophthalmology, 2011, 11, 22.	1.4	60
36	Submergence tolerance of rainfed lowland rice: search for physiological marker traits. Journal of Plant Physiology, 2001, 158, 883-889.	3.5	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.	2.2	57
38	TRPM7 and its role in neurodegenerative diseases. Channels, 2015, 9, 253-261.	2.8	57
39	Plasma Membrane Localization of TRPC Channels: Role of Caveolar Lipid Rafts. Novartis Foundation Symposium, 2008, , 63-74.	1.1	54
40	Relocalization of STIM1 for Activation of Store-operated Ca2+ Entry Is Determined by the Depletion of Subplasma Membrane Endoplasmic Reticulum Ca2+ Store. Journal of Biological Chemistry, 2007, 282, 12176-12185.	3.4	53
41	Impairment of TRPC1â€“STIM1 channel assembly and AQP5 translocation compromise agonist-stimulated fluid secretion in mice lacking caveolin1. Journal of Cell Science, 2013, 126, 667-675.	2.0	51
42	M1 Macrophage Polarization Is Dependent on TRPC1-Mediated Calcium Entry. IScience, 2018, 8, 85-102.	4.1	50
43	Plasma membrane localization and function of TRPC1 is dependent on its interaction with Î²-tubulin in retinal epithelium cells. Visual Neuroscience, 2005, 22, 163-170.	1.0	49
44	Functional role of TRP channels in modulating ER stress and Autophagy. Cell Calcium, 2016, 60, 123-132.	2.4	49
45	Mitochondrial pyruvate and fatty acid flux modulate MICU1-dependent control of MCU activity. Science Signaling, 2020, 13, .	3.6	48
46	Emerging Roles of Canonical TRP Channels in Neuronal Function. Advances in Experimental Medicine and Biology, 2011, 704, 573-593.	1.6	46
47	TRPC3 Controls Agonist-stimulated Intracellular Ca2+ Release by Mediating the Interaction between Inositol 1,4,5-Trisphosphate Receptor and RACK1. Journal of Biological Chemistry, 2008, 283, 32821-32830.	3.4	44
48	Caveolinâ€1 plays a critical role in host immunity against <scp>K</scp>lebsiella pneumoniae by regulating <scp>STAT</scp>5 and <scp>A</scp>kt activity. European Journal of Immunology, 2012, 42, 1500-1511.	2.9	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.	4.1	43
50	TGFÎ²â€induced epithelialâ€toâ€mesenchymal transition in prostate cancer cells is mediated via TRPM7 expression. Molecular Carcinogenesis, 2018, 57, 752-761.	2.7	42
51	TRPC1 regulates calciumâ€activated chloride channels in salivary gland cells. Journal of Cellular Physiology, 2015, 230, 2848-2856.	4.1	41
52	Loss-of-Function Mutations in FRRS1L Lead to an Epileptic-Dyskinetic Encephalopathy. American Journal of Human Genetics, 2016, 98, 1249-1255.	6.2	40
53	TRPC1-STIM1 activation modulates transforming growth factor Î²-induced epithelial-to-mesenchymal transition. Oncotarget, 2016, 7, 80554-80567.	1.8	40
54	The TR (i)P to Ca2+ signaling just got STIMy: an update 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 1Î± (Trp1Î±). Journal of Biological Chemistry, 2000, 275, 36483-36486.	3.4	38
56	Molecular cloning and functional characterisation of a glucose transporter,CaHGT1, ofCandida albicans. FEMS Microbiology Letters, 2000, 182, 15-21.	1.8	35
57	Does a higher ratio of serum calcium to magnesium increase the risk for postmenopausal breast cancer?. Medical Hypotheses, 2010, 75, 315-318.	1.5	35
58	TRPC1-mediated Ca2+ entry is essential for the regulation of hypoxia and nutrient depletion-dependent autophagy. Cell Death and Disease, 2015, 6, e1674-e1674.	6.3	35
59	Ca2+ Signaling: An Outlook on the Characterization of Ca2+ Channels and Their Importance in Cellular Functions. Advances in Experimental Medicine and Biology, 2012, 740, 143-157.	1.6	34
60	Oxidant sensor cation channel TRPM2 regulates neutrophil extracellular trap formation and protects against pneumoseptic bacterial infection. FASEB Journal, 2018, 32, 6848-6859.	0.5	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.	7.2	31
62	Transient Receptor Potential Channel 1 Deficiency Impairs Host Defense and Proinflammatory Responses to Bacterial Infection by Regulating Protein Kinase CÎ± Signaling. Molecular and Cellular Biology, 2015, 35, 2729-2739.	2.3	31
63	Darierâ€™s disease: a calcium-signaling perspective. Cellular and Molecular Life Sciences, 2008, 65, 205-211.	5.4	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.	1.1	30
65	Physiological Function and Characterization of TRPCs in Neurons. Cells, 2014, 3, 455-475.	4.1	29
66	The TRPC1 Ca2+-permeable channel inhibits exercise-induced protection against high-fat diet-induced obesity and type II diabetes. Journal of Biological Chemistry, 2017, 292, 20799-20807.	3.4	29
67	Dopaminergic neurotoxins induce cell death by attenuating NFâ€ÎºBâ€mediated regulation of TRPC1 expression and autophagy. FASEB Journal, 2018, 32, 1640-1652.	0.5	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.	3.4	28
69	SARS-CoV-2 infection enhances mitochondrial PTP complex activity to perturb cardiac energetics. IScience, 2022, 25, 103722.	4.1	27
70	The calcium channel proteins ORAI3 and STIM1 mediate TGF-Î² inducedSnai1expression. Oncotarget, 2018, 9, 29468-29483.	1.8	26
71	Helminth Induced Suppression of Macrophage Activation Is Correlated with Inhibition of Calcium Channel Activity. PLoS ONE, 2014, 9, e101023.	2.5	25
72	Clavulanic acid inhibits MPP+-induced ROS generation and subsequent loss of dopaminergic cells. Brain Research, 2012, 1469, 129-135.	2.2	23

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73	Clavulanic acid increases dopamine release in neuronal cells through a mechanism involving enhanced vesicle trafficking. Neuroscience Letters, 2011, 504, 170-175.	2.1	22
74	Neurological and Motor Disorders: Neuronal Store-Operated Ca2+ Signaling: An Overview and Its Function. Advances in Experimental Medicine and Biology, 2017, 993, 535-556.	1.6	22
75	Epigenetic Modulation of Microglial Inflammatory Gene Loci in Helminth-Induced Immune Suppression. ASN Neuro, 2015, 7, 175909141559212.	2.7	20
76	Magnesium-Induced Cell Survival Is Dependent on TRPM7 Expression and Function. Molecular Neurobiology, 2020, 57, 528-538.	4.0	20
77	Loss of Ca2+ entry via Orai-TRPC1 induces ER stress that initiates immune activation in macrophage cells. Journal of Cell Science, 2019, 133, .	2.0	19
78	TRPC Channels and Parkinsonâ€™s Disease. Advances in Experimental Medicine and Biology, 2017, 976, 85-94.	1.6	18
79	TRPC1 intensifies house dust miteâ€“induced airway remodeling by facilitating epithelialâ€toâ€mesenchymal transition and STAT3/NFâ€ºB signaling. FASEB Journal, 2019, 33, 1074-1085.	0.5	18
80	Effect of cell swelling on ER/PM junctional interactions and channel assembly involved in SOCE. Cell Calcium, 2010, 47, 491-499.	2.4	15
81	Resolving macrophage polarization through distinct Ca2+ entry channel that maintains intracellular signaling and mitochondrial bioenergetics. IScience, 2021, 24, 103339.	4.1	15
82	TRPC1 expression and function inhibit ER stress and cell death in salivary gland cells. FASEB BioAdvances, 2019, 1, 40-50.	2.4	14
83	Serum calcium levels, TRPM7, TRPC1, microcalcifications, and breast cancer using breast imaging reporting and data system scores. Breast Cancer: Targets and Therapy, 2012, 2013, 1.	1.8	13
84	MPP+ decreases store-operated calcium entry and TRPC1 expression in Mesenchymal Stem Cell derived dopaminergic neurons. Scientific Reports, 2018, 8, 11715.	3.3	13
85	Calcium channels and their role in regenerative medicine. World Journal of Stem Cells, 2021, 13, 260-280.	2.8	12
86	Chloride channel accessory 1 integrates chloride channel activity and mTORC1 in agingâ€related kidney injury. Aging Cell, 2021, 20, e13407.	6.7	11
87	Ca2+ entry via TRPC1 is essential for cellular differentiation and modulates secretion via the SNARE complex. Journal of Cell Science, 2019, 132, .	2.0	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. Current Eye Research, 2013, 38, 1159-1171.	1.5	8
89	Dynamic assembly of TRPC1-STIM1-Orai1 ternary complex is involved in store-operated calcium influx.. Journal of Biological Chemistry, 2007, 282, 27556.	3.4	8
90	Helminth derived factors inhibit neutrophil extracellular trap formation and inflammation in bacterial peritonitis. Scientific Reports, 2021, 11, 12718.	3.3	7

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91	Valine 77 of heterocystous ferredoxin FdxH2 in Anabaena variabilis strain ATCC 29413 is critical for its oxygen sensitivity. Molecular and Cellular Biochemistry, 2001, 217, 137-142.	3.1	6
92	Isoproterenol-Dependent Activation of TRPM7 Protects Against Neurotoxin-Induced Loss of Neuroblastoma Cells. Frontiers in Physiology, 2020, 11, 305.	2.8	6
93	Sigma1 Receptor Inhibits TRPC1-Mediated Ca2+ Entry That Promotes Dopaminergic Cell Death. Cellular and Molecular Neurobiology, 2021, 41, 1245-1255.	3.3	5
94	Trp1, a candidate protein for the store-operated Ca2+ influx mechanism in salivary gland cells.. Journal of Biological Chemistry, 2000, 275, 9890-9891.	3.4	5
95	Spatial localization of SOCE channels and its modulators regulate neuronal physiology and contributes to pathology. Current Opinion in Physiology, 2020, 17, 50-62.	1.8	4
96	Molecular and Functional Determinants of Ca2+ Signaling Microdomains. , 2010, , 237-253.		4
97	Differential activation of Ca2+ influx channels modulate stem cell potency, their proliferation/viability and tissue regeneration. Npj Regenerative Medicine, 2021, 6, 67.	5.2	4
98	Increasing cytosolic Ca2+ levels restore cell proliferation and stem cell potency in aged MSCs. Stem Cell Research, 2021, 56, 102560.	0.7	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. Advances in Experimental Medicine and Biology, 2010, 680, 609-617.	1.6	3
101	Decrease in alpha-1 antiproteinase antitrypsin is observed in primary Sjogrenâ€™s syndrome condition. Autoimmunity, 2020, 53, 270-282.	2.6	3
102	Canonical Transient Receptor Potential Channel Expression, Regulation, and Function in Vascular and Airway Diseases. Methods in Pharmacology and Toxicology, 2012, , 61-87.	0.2	1
103	Lipidomic Analysis of TRPC1 Ca2+-Permeable Channel-Knock Out Mouse Demonstrates a Vital Role in Placental Tissue Sphingolipid and Triacylglycerol Homeostasis Under Maternal High-Fat Diet. Frontiers in Endocrinology, 2022, 13, 854269.	3.5	1
104	Role of membrane potential in ammonium inhibition of nitrogenase activity in the cultured cyanobiont Nostoc ANTH. World Journal of Microbiology and Biotechnology, 1994, 10, 600-600.	3.6	0
105	The Potential Role Of TRPC3â€VAMP2 Interaction In Neurosecretion. FASEB Journal, 2006, 20, A117.	0.5	0
106	Compartmentalization of TRPC1â€STIM1 interactions into lipid raft domains. FASEB Journal, 2007, 21, A1425.	0.5	0
107	The Localization And Function Of TRPC3 In Supra Optic Nucleus. FASEB Journal, 2007, 21, A256.	0.5	0
108	A bimodality of Caveolin1 in regulation of TRPC1 function. FASEB Journal, 2008, 22, 817.1.	0.5	0

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109	Storeâ€operated calcium entry regulate mesenchymal stem cell proliferation. FASEB Journal, 2012, 26, 571.4.	0.5	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.	0.5	0
112	Transient Receptor Potential Canonical Channelâ€1 (TRPC1) KO Mice That Exercise Are Protected from Highâ€Fat Dietâ€induced Obesity and Type 2 Diabetes Risk. FASEB Journal, 2017, 31, lb280.	0.5	0