Terrance M Egan

List of Publications by Year
in descending order

69 papers	5,439 citations	71102 41 h-index	102487 66 g-index
69 all docs	69 docs citations	69 times ranked	3662 citing authors

#	Article	IF	Citations
1	Hetero-oligomeric Assembly of P2X Receptor Subunits. Journal of Biological Chemistry, 1999, 274, 6653-6659.	3.4	373
2	Membrane properties of rat locus coeruleus neurones. Neuroscience, 1984, 13, 137-156.	2.3	322
3	Enkephalin opens potassium channels on mammalian central neurones. Nature, 1982, 299, 74-77.	27.8	265
4	Contribution of Calcium Ions to P2X Channel Responses. Journal of Neuroscience, 2004, 24, 3413-3420.	3.6	263
5	Acetylcholine acts on m₂â€muscarinic receptors to excite rat locus coeruleus neurones. British Journal of Pharmacology, 1985, 85, 733-735.	5.4	258
6	Local control of excitationâ€contraction coupling in rat heart cells.. Journal of Physiology, 1994, 474, 463-471.	2.9	248
7	Noradrenalineâ€mediated synaptic inhibition in rat locus coeruleus neurones.. Journal of Physiology, 1983, 345, 477-488.	2.9	195
8	Acetylcholine hyperpolarizes central neurones by acting on an M2 muscarinic receptor. Nature, 1986, 319, 405-407.	27.8	195
9	Actions of acetylcholine and nicotine on rat locus coeruleus neurons in vitro. Neuroscience, 1986, 19, 565-571.	2.3	171
10	Pannexin 1 is the conduit for low oxygen tension-induced ATP release from human erythrocytes. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H1146-H1152.	3.2	161
11	Sodiumâ€calcium exchange during the action potential in guineaâ€pig ventricular cells.. Journal of Physiology, 1989, 411, 639-661.	2.9	154
12	ECG phenomenon called the J wave. Journal of Electrocardiology, 1995, 28, 49-58.	0.9	140
13	Co-Expression of P2X1 and P2X5 Receptor Subunits Reveals a Novel ATP-Gated Ion Channel. Molecular Pharmacology, 1998, 54, 989-993.	2.3	140
14	A Domain Contributing to the Ion Channel of ATP-Gated P2X₂Receptors Identified by the Substituted Cysteine Accessibility Method. Journal of Neuroscience, 1998, 18, 2350-2359.	3.6	130
15	Biophysics of P2X receptors. Pflugers Archiv European Journal of Physiology, 2006, 452, 501-512.	2.8	118
16	Processes that remove calcium from the cytoplasm during excitationâ€contraction coupling in intact rat heart cells.. Journal of Physiology, 1994, 474, 447-462.	2.9	96
17	Both mu and delta opiate receptors exist on the same neuron. Science, 1981, 214, 923-924.	12.6	95
18	P2X4 receptors in activated C8-B4 cells of cerebellar microglial origin. Journal of General Physiology, 2010, 135, 333-353.	1.9	85

#	Article	IF	Citations
19	Polar Residues of the Second Transmembrane Domain Influence Cation Permeability of the ATP-gated P2X2 Receptor. Journal of Biological Chemistry, 2001, 276, 30934-30941.	3.4	84
20	Principles and properties of ion flow in P2X receptors. Frontiers in Cellular Neuroscience, 2014, 8, 6.	3.7	83
21	Molecular characterization of the zebrafish P2X receptor subunit gene family. Neuroscience, 2003, 121, 935-945.	2.3	73
22	On the mechanism of isoprenalineâ€•and forskolinâ€•induced depolarization of single guineaâ€pig ventricular myocytes.. Journal of Physiology, 1988, 400, 299-320.	2.9	70
23	Properties and rundown of sodium-activated potassium channels in rat olfactory bulb neurons. Journal of Neuroscience, 1992, 12, 1964-1976.	3.6	70
24	Preferential use of unobstructed lateral portals as the access route to the pore of human ATP-gated ion channels (P2X receptors). Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13800-13805.	7.1	70
25	ACTIONS AND DISTRIBUTIONS OF OPIOID PEPTIDES IN PERIPHERAL TISSUES. British Medical Bulletin, 1983, 39, 71-75.	6.9	68
26	Engagement of the GABA to KCC2 Signaling Pathway Contributes to the Analgesic Effects of A₃AR Agonists in Neuropathic Pain. Journal of Neuroscience, 2015, 35, 6057-6067.	3.6	68
27	Identification of a Domain Involved in ATP-gated Ionotropic Receptor Subunit Assembly. Journal of Biological Chemistry, 1999, 274, 22359-22365.	3.4	65
28	Topological analysis of the ATP-gated ionotrophic P2X2receptor subunit. FEBS Letters, 1998, 425, 19-23.	2.8	64
29	Contribution of Transmembrane Regions to ATP-gated P2X2 Channel Permeability Dynamics. Journal of Biological Chemistry, 2005, 280, 6118-6129.	3.4	60
30	The CDK domain of p21 is a suppressor of ILâ€1Î²â€mediated inflammation in activated macrophages. European Journal of Immunology, 2009, 39, 820-825.	2.9	59
31	A central role for P2X7 receptors in human microglia. Journal of Neuroinflammation, 2018, 15, 325.	7.2	59
32	N-Linked Glycosylation Is Essential for the Functional Expression of the Recombinant P2X2Receptorâ€. Biochemistry, 1998, 37, 14845-14851.	2.5	58
33	Acidic Amino Acids Impart Enhanced Ca2+ Permeability and Flux in Two Members of the ATP-gated P2X Receptor Family. Journal of General Physiology, 2007, 129, 245-256.	1.9	58
34	Pharmacologic characterizations of a P2X7 receptor-specific radioligand, [11C]GSK1482160 for neuroinflammatory response. Nuclear Medicine Communications, 2017, 38, 372-382.	1.1	57
35	Native and recombinant ASIC1a receptors conduct negligible Ca2+ entry. Cell Calcium, 2009, 45, 319-325.	2.4	56
36	An isoprenaline activated sodium-dependent inward current in ventricular myocytes. Nature, 1987, 328, 634-637.	27.8	52

#	Article	IF	Citations
37	Na+-activated K+ channels are widely distributed in rat CNS and in Xenopus oocytes. Brain Research, 1992, 584, 319-321.	2.2	52
38	Gain and Loss of Channel Function by Alanine Substitutions in the Transmembrane Segments of the Rat ATP-Gated P2X2 Receptor. Journal of Neuroscience, 2004, 24, 7378-7386.	3.6	49
39	The First Transmembrane Domain of the P2X Receptor Subunit Participates in the Agonist-induced Gating of the Channel. Journal of Biological Chemistry, 2001, 276, 32793-32798.	3.4	48
40	On the Contribution of the First Transmembrane Domain to Whole-Cell Current through an ATP-Gated Ionotropic P2X Receptor. Journal of Neuroscience, 2001, 21, 5885-5892.	3.6	47
41	Properties and modulation of a calcium-activated potassium channel in rat olfactory bulb neurons. Journal of Neurophysiology, 1993, 69, 1433-1442.	1.8	46
42	Molecular Structure of P2X Receptors. Current Topics in Medicinal Chemistry, 2004, 4, 821-829.	2.1	43
43	Imaging P2X4 receptor subcellular distribution, trafficking, and regulation using P2X4-pHluorin. Journal of General Physiology, 2014, 144, 81-104.	1.9	39
44	Functional expression of mammalian receptors and membrane channels in different cells. Journal of Structural Biology, 2007, 159, 179-193.	2.8	37
45	Synthesis and in vitro characterization of a P2X7 radioligand [123I]TZ6019 and its response to neuroinflammation in a mouse model of Alzheimer disease. European Journal of Pharmacology, 2018, 820, 8-17.	3.5	37
46	On the Role of the First Transmembrane Domain in Cation Permeability and Flux of the ATP-gated P2X2 Receptor. Journal of Biological Chemistry, 2008, 283, 5110-5117.	3.4	36
47	Cloning and characterization of two novel zebrafish P2X receptor subunits. Biochemical and Biophysical Research Communications, 2002, 295, 849-853.	2.1	35
48	P2X receptor overexpression induced by soluble oligomers of amyloid beta peptide potentiates synaptic failure and neuronal dyshomeostasis in cellular models of Alzheimer's disease. Neuropharmacology, 2018, 128, 366-378.	4.1	34
49	Tunable Calcium Current through TRPV1 Receptor Channels. Journal of Biological Chemistry, 2008, 283, 31274-31278.	3.4	33
50	Quantifying Ca2+ Current and Permeability in ATP-gated P2X7 Receptors. Journal of Biological Chemistry, 2015, 290, 7930-7942.	3.4	33
51	Allosteric Modulation of Ca2+ flux in Ligand-gated Cation Channel (P2X4) by Actions on Lateral Portals. Journal of Biological Chemistry, 2012, 287, 7594-7602.	3.4	32
52	ATP-Gated P2X7 Receptors Require Chloride Channels To Promote Inflammation in Human Macrophages. Journal of Immunology, 2019, 202, 883-898.	0.8	32
53	Acetylcholine and the mammalian 'slow inward' current : a computer investigation. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1987, 230, 315-337.	1.8	30
54	Neuropeptide Y inhibition of calcium channels in PC-12 pheochromocytoma cells. American Journal of Physiology - Cell Physiology, 1998, 274, C1290-C1297.	4.6	29

#	Article	IF	Citations
55	Molecular cloning and functional characterization of the zebrafish ATP-gated ionotropic receptor P2X3 subunit. FEBS Letters, 2000, 475, 287-290.	2.8	27
56	Calcium-dependent decrease in the single-channel conductance of TRPV1. Pflugers Archiv European Journal of Physiology, 2011, 462, 681-691.	2.8	26
57	ELECTROPHYSIOLOGY OF PEPTIDES IN THE PERIPHERAL NERVOUS SYSTEM. British Medical Bulletin, 1982, 38, 291-296.	6.9	17
58	Ca2+ flux through splice variants of the ATP-gated ionotropic receptor P2X7 is regulated by its cytoplasmic N terminus. Journal of Biological Chemistry, 2019, 294, 12521-12533.	3.4	17
59	HSP90 Regulation of P2X7 Receptor Function Requires an Intact Cytoplasmic C-Terminus. Molecular Pharmacology, 2016, 90, 116-126.	2.3	16
60	Neuropeptide Y receptors involved in calcium channel regulation in PC12 cells. Regulatory Peptides, 1998, 75-76, 101-107.	1.9	15
61	Sorting Nexin 11 Regulates Lysosomal Degradation of Plasma Membrane <scp>TRPV3</scp>. Traffic, 2016, 17, 500-514.	2.7	15
62	CLIC1 null mice demonstrate a role for CLIC1 in macrophage superoxide production and tissue injury. Physiological Reports, 2017, 5, e13169.	1.7	15
63	Physiology of Cultured Human Microglia Maintained in a Defined Culture Medium. ImmunoHorizons, 2021, 5, 257-272.	1.8	6
64	Chapter 6 Single cell studies of the actions of agonists and antagonists on nicotinic receptors of the central nervous system. Progress in Brain Research, 1989, 79, 73-83.	1.4	5
65	P2X Receptors. , 0, , 458-485.		3
66	Relating the Structure of ATP-Gated Ion Channel Receptors to Their Function. Current Topics in Membranes, 2003, 54, 183-202.	0.9	1
67	Using Whole-Cell Electrophysiology and Patch-Clamp Photometry to Characterize P2X7 Receptor Currents. Methods in Molecular Biology, 2022, , 217-237.	0.9	1
68	P2X4 receptors in activated C8-B4 cells of cerebellar microglial origin. Journal of Cell Biology, 2010, 189, i7-i7.	5.2	0
69	P2X Receptors. , 2018, , .		0