David S Bredt

List of Publications by Year
in descending order

35 papers	6,047 citations	236833 25 h-index	360920 35 g-index
35 all docs	35 docs citations	35 times ranked	4393 citing authors

#	Article	IF	Citations
1	Interaction of Nitric Oxide Synthase with the Postsynaptic Density Protein PSD-95 and Î±1-Syntrophin Mediated by PDZ Domains. Cell, 1996, 84, 757-767.	13.5	1,557
2	Stargazin regulates synaptic targeting of AMPA receptors by two distinct mechanisms. Nature, 2000, 408, 936-943.	13.7	975
3	Functional studies and distribution define a family of transmembrane AMPA receptor regulatory proteins. Journal of Cell Biology, 2003, 161, 805-816.	2.3	486
4	Stargazin modulates AMPA receptor gating and trafficking by distinct domains. Nature, 2005, 435, 1052-1058.	13.7	447
5	Auxiliary Subunits Assist AMPA-Type Glutamate Receptors. Science, 2006, 311, 1253-1256.	6.0	340
6	Protein palmitoylation: a regulator of neuronal development and function. Nature Reviews Neuroscience, 2002, 3, 791-802.	4.9	306
7	TARP Î³-8 controls hippocampal AMPA receptor number, distribution and synaptic plasticity. Nature Neuroscience, 2005, 8, 1525-1533.	7.1	240
8	Dynamic Interaction of Stargazin-like TARPs with Cycling AMPA Receptors at Synapses. Science, 2004, 303, 1508-1511.	6.0	221
9	TARP Subtypes Differentially and Dose-Dependently Control Synaptic AMPA Receptor Gating. Neuron, 2007, 55, 905-918.	3.8	177
10	Hippocampal AMPA Receptor Gating Controlled byÂBoth TARP and Cornichon Proteins. Neuron, 2010, 68, 1082-1096.	3.8	164
11	Stargazin is an AMPA receptor auxiliary subunit. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 485-490.	3.3	152
12	Brain Î±7 Nicotinic Acetylcholine Receptor Assembly Requires NACHO. Neuron, 2016, 89, 948-955.	3.8	127
13	Forebrain-selective AMPA-receptor antagonism guided by TARP Î³-8 as an antiepileptic mechanism. Nature Medicine, 2016, 22, 1496-1501.	15.2	77
14	Cornichon-2 Modulates AMPA Receptorâ€"Transmembrane AMPA Receptor Regulatory Protein Assembly to Dictate Gating and Pharmacology. Journal of Neuroscience, 2011, 31, 6928-6938.	1.7	66
15	NACHO Mediates Nicotinic Acetylcholine Receptor Function throughout the Brain. Cell Reports, 2017, 19, 688-696.	2.9	65
16	Stargazin controls the pharmacology of AMPA receptor potentiators. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10064-10067.	3.3	64
17	Stargazin interacts functionally with the AMPA receptor glutamate-binding module. Neuropharmacology, 2007, 52, 87-91.	2.0	61
18	PDZ binding of TARPÎ³-8 controls synaptic transmission but not synaptic plasticity. Nature Neuroscience, 2011, 14, 1410-1412.	7.1	59

#	Article	IF	Citations
19	Getting a Handle on Neuropharmacology by Targeting Receptor-Associated Proteins. Neuron, 2017, 96, 989-1001.	3.8	56
20	Discovery of the First Î±-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic Acid (AMPA) Receptor Antagonist Dependent upon Transmembrane AMPA Receptor Regulatory Protein (TARP) Î³-8. Journal of Medicinal Chemistry, 2016, 59, 4753-4768.	2.9	48
21	Porcupine Controls Hippocampal AMPAR Levels, Composition, and Synaptic Transmission. Cell Reports, 2016, 14, 782-794.	2.9	48
22	AMPA receptors and stargazin-like transmembrane AMPA receptor-regulatory proteins mediate hippocampal kainate neurotoxicity. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18784-18788.	3.3	47
23	Targeting receptor complexes: a new dimension in drug discovery. Nature Reviews Drug Discovery, 2020, 19, 884-901.	21.5	42
24	Nicotinic acetylcholine receptor redux: Discovery of accessories opens therapeutic vistas. Science, 2021, 373, .	6.0	36
25	AMPA receptor modulation by cornichonâ€2 dictated by transmembrane AMPA receptor regulatory protein isoform. European Journal of Neuroscience, 2012, 35, 182-194.	1.2	32
26	Î±7 nicotinic acetylcholine receptor upregulation by anti-apoptotic Bcl-2 proteins. Nature Communications, 2019, 10, 2746.	5.8	24
27	Î±6-Containing Nicotinic Acetylcholine Receptor Reconstitution Involves Mechanistically Distinct Accessory Components. Cell Reports, 2019, 26, 866-874.e3.	2.9	22
28	Translating depression biomarkers for improved targeted therapies. Neuroscience and Biobehavioral Reviews, 2015, 59, 1-15.	2.9	19
29	Polyamine regulation of ion channel assembly and implications for nicotinic acetylcholine receptor pharmacology. Nature Communications, 2020, 11, 2799.	5.8	19
30	Hair cell Î±9Î±10 nicotinic acetylcholine receptor functional expression regulated by ligand binding and deafness gene products. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24534-24544.	3.3	17
31	Modulation of TARP Î³8â€"Containing AMPA Receptors as a Novel Therapeutic Approach for Chronic Pain. Journal of Pharmacology and Experimental Therapeutics, 2019, 369, 345-363.	1.3	15
32	NACHO Engages N-Glycosylation ER Chaperone Pathways for Î±7 Nicotinic Receptor Assembly. Cell Reports, 2020, 32, 108025.	2.9	12
33	A Genome-Wide Arrayed cDNA Screen to Identify Functional Modulators of Î±7 Nicotinic Acetylcholine Receptors. SLAS Discovery, 2017, 22, 155-165.	1.4	11
34	Functional Î±6Î²4 acetylcholine receptor expression enables pharmacological testing of nicotinic agonists with analgesic properties. Journal of Clinical Investigation, 2020, 130, 6158-6170.	3.9	9
35	Pharmacological regulation of ion channels by auxiliary subunits. Current Opinion in Drug Discovery & Development, 2007, 10, 565-72.	1.9	6