Jon W Johnson

List of Publications by Year
in descending order

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37 papers	2,551 citations	279798 23 h-index	345221 36 g-index
37 all docs	37 docs citations	37 times ranked	2972 citing authors

#	Article	IF	Citations
1	Mechanism of action of memantine. Current Opinion in Pharmacology, 2006, 6, 61-67.	3.5	390
2	Mechanism of differential control of NMDA receptor activity by NR2 subunits. Nature, 2009, 459, 703-707.	27.8	293
3	Mg²⁺Imparts NMDA Receptor Subtype Selectivity to the Alzheimer's Drug Memantine. Journal of Neuroscience, 2009, 29, 2774-2779.	3.6	222
4	Trapping Channel Block of NMDA-Activated Responses By Amantadine and Memantine. Journal of Neurophysiology, 1997, 77, 309-323.	1.8	217
5	Amantadine Inhibits NMDA Receptors by Accelerating Channel Closure during Channel Block. Journal of Neuroscience, 2005, 25, 3312-3322.	3.6	205
6	Molecular bases of NMDA receptor subtypeâ€dependent properties. Journal of Physiology, 2015, 593, 83-95.	2.9	107
7	Structural Rearrangements of NR1/NR2A NMDA Receptors during Allosteric Inhibition. Neuron, 2008, 57, 80-93.	8.1	106
8	Recent insights into the mode of action of memantine and ketamine. Current Opinion in Pharmacology, 2015, 20, 54-63.	3.5	79
9	NMDA Receptor NR2 Subunit Dependence of the Slow Component of Magnesium Unblock. Journal of Neuroscience, 2006, 26, 5825-5834.	3.6	77
10	A single GluN2 subunit residue controls NMDA receptor channel properties via intersubunit interaction. Nature Neuroscience, 2012, 15, 406-413.	14.8	77
11	Memantine binding to a superficial site on NMDA receptors contributes to partial trapping. Journal of Physiology, 2009, 587, 4589-4604.	2.9	75
12	Binding sites for permeant ions in the channel of NMDA receptors and their effects on channel block. Nature Neuroscience, 1998, 1, 451-461.	14.8	64
13	Memantine and Ketamine Differentially Alter NMDA Receptor Desensitization. Journal of Neuroscience, 2017, 37, 9686-9704.	3.6	57
14	Tonic NMDA receptor-mediated current in prefrontal cortical pyramidal cells and fast-spiking interneurons. Journal of Neurophysiology, 2012, 107, 2232-2243.	1.8	52
15	The Role of GluN2C-Containing NMDA Receptors in Ketamine's Psychotogenic Action and in Schizophrenia Models. Journal of Neuroscience, 2016, 36, 11151-11157.	3.6	52
16	Posttetanic potentiation and presynaptically induced long-term potentiation at the mossy fiber synapse in rat hippocampus. Journal of Neurobiology, 1995, 26, 370-385.	3.6	50
17	Synaptic zinc inhibition of NMDA receptors depends on the association of GluN2A with the zinc transporter ZnT1. Science Advances, 2020, 6, .	10.3	43
18	Voltageâ€dependent gating of NR1/2B NMDA receptors. Journal of Physiology, 2008, 586, 5727-5741.	2.9	42

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19	Free intracellular Mg 2+ concentration and inhibition of NMDA responses in cultured rat neurons. Journal of Physiology, 2001, 533, 729-743.	2.9	39
20	Effects of memantine on the excitation-inhibition balance in prefrontal cortex. Neurobiology of Disease, 2016, 96, 75-83.	4.4	36
21	Mutant LRRK2 enhances glutamatergic synapse activity and evokes excitotoxic dendrite degeneration. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2014, 1842, 1596-1603.	3.8	33
22	Comparison of behavioral effects of the NMDA receptor channel blockers memantine and ketamine in rats. Pharmacology Biochemistry and Behavior, 2013, 109, 67-76.	2.9	31
23	Lgr5 + amacrine cells possess regenerative potential in the retina of adult mice. Aging Cell, 2015, 14, 635-643.	6.7	31
24	Mechanistic and Structural Determinants of NMDA Receptor Voltage-Dependent Gating and Slow Mg²⁺Unblock. Journal of Neuroscience, 2013, 33, 4140-4150.	3.6	26
25	All atom NMDA receptor transmembrane domain model development and simulations in lipid bilayers and water. PLoS ONE, 2017, 12, e0177686.	2.5	23
26	Oxygenâ€“Glucose Deprivation Differentially Affects Neocortical Pyramidal Neurons and Parvalbumin-Positive Interneurons. Neuroscience, 2019, 412, 72-82.	2.3	21
27	Effects of Mg2+ on recovery of NMDA receptors from inhibition by memantine and ketamine reveal properties of a second site. Neuropharmacology, 2018, 137, 344-358.	4.1	19
28	A versatile optical tool for studying synaptic GABAA receptor trafficking. Journal of Cell Science, 2017, 130, 3933-3945.	2.0	15
29	Whole-Cell Patch-Clamp Analysis of Recombinant NMDA Receptor Pharmacology Using Brief Glutamate Applications. Methods in Molecular Biology, 2014, 1183, 23-41.	0.9	14
30	New Cav2 calcium channel gating modifiers with agonist activity and therapeutic potential to treat neuromuscular disease. Neuropharmacology, 2018, 131, 176-189.	4.1	11
31	Inhibition of NMDA receptors through a membrane-to-channel path. Nature Communications, 2022, 13, .	12.8	11
32	Design, synthesis, and in vitro and in vivo characterization of new memantine analogs for Alzheimer's disease. European Journal of Medicinal Chemistry, 2022, 236, 114354.	5.5	10
33	Low-Density Neuronal Cultures from Human Induced Pluripotent Stem Cells. Molecular Neuropsychiatry, 2017, 3, 28-36.	2.9	7
34	Pharmacological and Electrophysiological Characterization of Novel NMDA Receptor Antagonists. ACS Chemical Neuroscience, 2018, 9, 2722-2730.	3.5	7
35	Interplay between Gating and Block of Ligand-Gated Ion Channels. Brain Sciences, 2020, 10, 928.	2.3	7
36	Acid Tests of N-Methyl-d-aspartate Receptor Gating Basics. Molecular Pharmacology, 2003, 63, 1199-1201.	2.3	2

#	Article	IF	Citations
37	Endogenous Pink1 Regulates Dendritic Architecture and Spinogenesis. FASEB Journal, 2022, 36, .	0.5	0