

# Jon W Johnson

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Design, synthesis, and in vitro and in vivo characterization of new memantine analogs for Alzheimer's disease. <i>European Journal of Medicinal Chemistry</i> , 2022, 236, 114354.	5.5	10
2	Endogenous Pink1 Regulates Dendritic Architecture and Spinogenesis. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
3	Inhibition of NMDA receptors through a membrane-to-channel path. <i>Nature Communications</i> , 2022, 13, .	12.8	11
4	Synaptic zinc inhibition of NMDA receptors depends on the association of GluN2A with the zinc transporter ZnT1. <i>Science Advances</i> , 2020, 6, .	10.3	43
5	Interplay between Gating and Block of Ligand-Gated Ion Channels. <i>Brain Sciences</i> , 2020, 10, 928.	2.3	7
6	Oxygenâ€“Glucose Deprivation Differentially Affects Neocortical Pyramidal Neurons and Parvalbumin-Positive Interneurons. <i>Neuroscience</i> , 2019, 412, 72-82.	2.3	21
7	New Cav2 calcium channel gating modifiers with agonist activity and therapeutic potential to treat neuromuscular disease. <i>Neuropharmacology</i> , 2018, 131, 176-189.	4.1	11
8	Pharmacological and Electrophysiological Characterization of Novel NMDA Receptor Antagonists. <i>ACS Chemical Neuroscience</i> , 2018, 9, 2722-2730.	3.5	7
9	Effects of Mg <sup>2+</sup> on recovery of NMDA receptors from inhibition by memantine and ketamine reveal properties of a second site. <i>Neuropharmacology</i> , 2018, 137, 344-358.	4.1	19
10	A versatile optical tool for studying synaptic GABA <sub>A</sub> receptor trafficking. <i>Journal of Cell Science</i> , 2017, 130, 3933-3945.	2.0	15
11	Low-Density Neuronal Cultures from Human Induced Pluripotent Stem Cells. <i>Molecular Neuropsychiatry</i> , 2017, 3, 28-36.	2.9	7
12	Memantine and Ketamine Differentially Alter NMDA Receptor Desensitization. <i>Journal of Neuroscience</i> , 2017, 37, 9686-9704.	3.6	57
13	All atom NMDA receptor transmembrane domain model development and simulations in lipid bilayers and water. <i>PLoS ONE</i> , 2017, 12, e0177686.	2.5	23
14	Effects of memantine on the excitation-inhibition balance in prefrontal cortex. <i>Neurobiology of Disease</i> , 2016, 96, 75-83.	4.4	36
15	The Role of GluN2C-Containing NMDA Receptors in Ketamine's Psychotogenic Action and in Schizophrenia Models. <i>Journal of Neuroscience</i> , 2016, 36, 11151-11157.	3.6	52
16	Lgr5 + amacrine cells possess regenerative potential in the retina of adult mice. <i>Aging Cell</i> , 2015, 14, 635-643.	6.7	31
17	Recent insights into the mode of action of memantine and ketamine. <i>Current Opinion in Pharmacology</i> , 2015, 20, 54-63.	3.5	79
18	Molecular bases of NMDA receptor subtypeâ€“dependent properties. <i>Journal of Physiology</i> , 2015, 593, 83-95.	2.9	107

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19	Mutant LRRK2 enhances glutamatergic synapse activity and evokes excitotoxic dendrite degeneration. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014, 1842, 1596-1603.	3.8	33
20	Whole-Cell Patch-Clamp Analysis of Recombinant NMDA Receptor Pharmacology Using Brief Glutamate Applications. <i>Methods in Molecular Biology</i> , 2014, 1183, 23-41.	0.9	14
21	Comparison of behavioral effects of the NMDA receptor channel blockers memantine and ketamine in rats. <i>Pharmacology Biochemistry and Behavior</i> , 2013, 109, 67-76.	2.9	31
22	Mechanistic and Structural Determinants of NMDA Receptor Voltage-Dependent Gating and Slow Mg <sup>2+</sup> Unblock. <i>Journal of Neuroscience</i> , 2013, 33, 4140-4150.	3.6	26
23	Tonic NMDA receptor-mediated current in prefrontal cortical pyramidal cells and fast-spiking interneurons. <i>Journal of Neurophysiology</i> , 2012, 107, 2232-2243.	1.8	52
24	A single GluN2 subunit residue controls NMDA receptor channel properties via intersubunit interaction. <i>Nature Neuroscience</i> , 2012, 15, 406-413.	14.8	77
25	Mg <sup>2+</sup> Imparts NMDA Receptor Subtype Selectivity to the Alzheimer's Drug Memantine. <i>Journal of Neuroscience</i> , 2009, 29, 2774-2779.	3.6	222
26	Memantine binding to a superficial site on NMDA receptors contributes to partial trapping. <i>Journal of Physiology</i> , 2009, 587, 4589-4604.	2.9	75
27	Mechanism of differential control of NMDA receptor activity by NR2 subunits. <i>Nature</i> , 2009, 459, 703-707.	27.8	293
28	Voltage-dependent gating of NR1/2B NMDA receptors. <i>Journal of Physiology</i> , 2008, 586, 5727-5741.	2.9	42
29	Structural Rearrangements of NR1/NR2A NMDA Receptors during Allosteric Inhibition. <i>Neuron</i> , 2008, 57, 80-93.	8.1	106
30	Mechanism of action of memantine. <i>Current Opinion in Pharmacology</i> , 2006, 6, 61-67.	3.5	390
31	NMDA Receptor NR2 Subunit Dependence of the Slow Component of Magnesium Unblock. <i>Journal of Neuroscience</i> , 2006, 26, 5825-5834.	3.6	77
32	Amantadine Inhibits NMDA Receptors by Accelerating Channel Closure during Channel Block. <i>Journal of Neuroscience</i> , 2005, 25, 3312-3322.	3.6	205
33	Acid Tests of N-Methyl-d-aspartate Receptor Gating Basics. <i>Molecular Pharmacology</i> , 2003, 63, 1199-1201.	2.3	2
34	Free intracellular Mg <sup>2+</sup> concentration and inhibition of NMDA responses in cultured rat neurons. <i>Journal of Physiology</i> , 2001, 533, 729-743.	2.9	39
35	Binding sites for permeant ions in the channel of NMDA receptors and their effects on channel block. <i>Nature Neuroscience</i> , 1998, 1, 451-461.	14.8	64
36	Trapping Channel Block of NMDA-Activated Responses By Amantadine and Memantine. <i>Journal of Neurophysiology</i> , 1997, 77, 309-323.	1.8	217

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37	Posttetanic potentiation and presynaptically induced long-term potentiation at the mossy fiber synapse in rat hippocampus. <i>Journal of Neurobiology</i> , 1995, 26, 370-385.	3.6	50