

Ladislav Vyklicky

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81
papers

3,709
citations

32
h-index

60
g-index

85
ext. papers

4,076
ext. citations

5.5
avg, IF

4.89
L-index

#	Paper	IF	Citations
81	Endogenous neurosteroids pregnanolone and pregnanolone sulfate potentiate presynaptic glutamate release through distinct mechanisms. <i>British Journal of Pharmacology</i> , 2021 , 178, 3888-3904	8.6	2
80	Palmitoylation Controls NMDA Receptor Function and Steroid Sensitivity. <i>Journal of Neuroscience</i> , 2021 , 41, 2119-2134	6.6	4
79	Pitfalls of NMDA Receptor Modulation by Neuroactive Steroids. The Effect of Positive and Negative Modulation of NMDA Receptors in an Animal Model of Schizophrenia. <i>Biomolecules</i> , 2021 , 11,	5.9	1
78	Site of Action of Brain Neurosteroid Pregnenolone Sulfate at the N-Methyl-D-Aspartate Receptor. <i>Journal of Neuroscience</i> , 2020 , 40, 5922-5936	6.6	10
77	Cholesterol modulates presynaptic and postsynaptic properties of excitatory synaptic transmission. <i>Scientific Reports</i> , 2020 , 10, 12651	4.9	14
76	NMDA Receptor Opening and Closing-Transitions of a Molecular Machine Revealed by Molecular Dynamics. <i>Biomolecules</i> , 2019 , 9,	5.9	8
75	Total Synthesis of ent-Pregnanolone Sulfate and Its Biological Investigation at the NMDA Receptor. <i>Organic Letters</i> , 2018 , 20, 946-949	6.2	13
74	Positive Modulators of the N-Methyl-d-aspartate Receptor: Structure-Activity Relationship Study of Steroidal 3-Hemiesters. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 4505-4516	8.3	13
73	Surface Expression, Function, and Pharmacology of Disease-Associated Mutations in the Membrane Domain of the Human GluN2B Subunit. <i>Frontiers in Molecular Neuroscience</i> , 2018 , 11, 110	6.1	27
72	The LILI Motif of M3-S2 Linkers Is a Component of the NMDA Receptor Channel Gate. <i>Frontiers in Molecular Neuroscience</i> , 2018 , 11, 113	6.1	18
71	Shared CaM- and S100A1-binding epitopes in the distal TRPM4 N terminus. <i>FEBS Journal</i> , 2018 , 285, 599-613	5.7	9
70	Strong Inhibitory Effect, Low Cytotoxicity and High Plasma Stability of Steroidal Inhibitors of -Methyl-D-Aspartate Receptors With C-3 Amide Structural Motif. <i>Frontiers in Pharmacology</i> , 2018 , 9, 1295-6	5.6	5
69	The pharmacology of tacrine at N-methyl-d-aspartate receptors. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2017 , 75, 54-62	5.5	36
68	Metabotropic action of postsynaptic kainate receptors triggers hippocampal long-term potentiation. <i>Nature Neuroscience</i> , 2017 , 20, 529-539	25.5	33
67	Physicochemical and biological properties of novel amide-based steroidal inhibitors of NMDA receptors. <i>Steroids</i> , 2017 , 117, 52-61	2.8	19
66	The characterization of a novel S100A1 binding site in the N-terminus of TRPM1. <i>International Journal of Biochemistry and Cell Biology</i> , 2016 , 78, 186-193	5.6	5
65	Preferential Inhibition of Tonically over Phasically Activated NMDA Receptors by Pregnane Derivatives. <i>Journal of Neuroscience</i> , 2016 , 36, 2161-75	6.6	34

64	Analysis of Whole-Cell NMDA Receptor Currents. <i>Neuromethods</i> , 2016 , 205-219	0.4	2
63	Biochemical and electrophysiological characterization of N-glycans on NMDA receptor subunits. <i>Journal of Neurochemistry</i> , 2016 , 138, 546-56	6	16
62	Neurosteroid-like Inhibitors of N-Methyl-d-aspartate Receptor: Substituted 2-Sulfates and 2-Hemisuccinates of Perhydrophenanthrene. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 4724-39	8.3	8
61	Cholesterol modulates open probability and desensitization of NMDA receptors. <i>Journal of Physiology</i> , 2015 , 593, 2279-93	3.9	62
60	A New Class of Potent N-Methyl-D-Aspartate Receptor Inhibitors: Sulfated Neuroactive Steroids with Lipophilic D-Ring Modifications. <i>Journal of Medicinal Chemistry</i> , 2015 , 58, 5950-66	8.3	19
59	Block of NMDA receptor channels by endogenous neurosteroids: implications for the agonist induced conformational states of the channel vestibule. <i>Scientific Reports</i> , 2015 , 5, 10935	4.9	35
58	PIP2 and PIP3 interact with N-terminus region of TRPM4 channel. <i>Biophysical Chemistry</i> , 2015 , 205, 24-32,5		21
57	Characterization of the part of N-terminal PIP2 binding site of the TRPM1 channel. <i>Biophysical Chemistry</i> , 2015 , 207, 135-42	3.5	8
56	Distinct regions within the GluN2C subunit regulate the surface delivery of NMDA receptors. <i>Frontiers in Cellular Neuroscience</i> , 2014 , 8, 375	6.1	12
55	Structure, function, and pharmacology of NMDA receptor channels. <i>Physiological Research</i> , 2014 , 63, S191-203	2.1	140
54	Pregnenolone sulfate activates NMDA receptor channels. <i>Physiological Research</i> , 2013 , 62, 731-6	2.1	11
53	Key amino acid residues within the third membrane domains of NR1 and NR2 subunits contribute to the regulation of the surface delivery of N-methyl-D-aspartate receptors. <i>Journal of Biological Chemistry</i> , 2012 , 287, 26423-34	5.4	32
52	New caged neurotransmitter analogs selective for glutamate receptor sub-types based on methoxynitroindoline and nitrophenylethoxycarbonyl caging groups. <i>Neuropharmacology</i> , 2012 , 63, 624-34	5.5	32
51	Synthesis of deuterium labeled NMDA receptor inhibitor - 20-Oxo-5[9,12,12-(2)H(3)]pregnan-3[1]yl-L-glutamyl 1-ester. <i>Steroids</i> , 2012 , 77, 282-7	2.8	4
50	Access of inhibitory neurosteroids to the NMDA receptor. <i>British Journal of Pharmacology</i> , 2012 , 166, 1069-83	8.6	44
49	Single amino acid residue in the M4 domain of GluN1 subunit regulates the surface delivery of NMDA receptors. <i>Journal of Neurochemistry</i> , 2012 , 123, 385-95	6	13
48	3[5]Pregnanolone glutamate, a use-dependent NMDA antagonist, reversed spatial learning deficit in an animal model of schizophrenia. <i>Behavioural Brain Research</i> , 2012 , 235, 82-8	3.4	12
47	Neuroactive steroids with perfluorobenzoyl group. <i>Steroids</i> , 2012 , 77, 1233-41	2.8	2

46	Highly Efficient Fluorescence Quenching with Graphene. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 2858-2862	115
45	Azido analogs of neuroactive steroids. <i>Steroids</i> , 2011 , 76, 1043-50	2.8 5
44	Neurosteroid modulation of N-methyl-D-aspartate receptors: molecular mechanism and behavioral effects. <i>Steroids</i> , 2011 , 76, 1409-18	2.8 42
43	Cellular and behavioural effects of a new steroidal inhibitor of the N-methyl-d-aspartate receptor 3 β -pregnanolone glutamate. <i>Neuropharmacology</i> , 2011 , 61, 61-8	5.5 31
42	Synthesis of pregnane 3-carboxylic acids via Pd-catalyzed alkoxyacylation and their effect on NMDA receptor activity. <i>Collection of Czechoslovak Chemical Communications</i> , 2011 , 76, 1141-1161	2
41	Temperature dependence of N-methyl-D-aspartate receptor channels and N-methyl-D-aspartate receptor excitatory postsynaptic currents. <i>Neuroscience</i> , 2010 , 165, 736-48	3.9 20
40	Synthesis of C3, C5, and C7 pregnane derivatives and their effect on NMDA receptor responses in cultured rat hippocampal neurons. <i>Steroids</i> , 2009 , 74, 256-63	2.8 16
39	Pregnenolone sulfate modulation of N-methyl-D-aspartate receptors is phosphorylation dependent. <i>Neuroscience</i> , 2009 , 160, 616-28	3.9 24
38	Temperature dependence of NR1/NR2B NMDA receptor channels. <i>Neuroscience</i> , 2008 , 151, 428-38	3.9 40
37	Ethanol inhibits cold-menthol receptor TRPM8 by modulating its interaction with membrane phosphatidylinositol 4,5-bisphosphate. <i>Journal of Neurochemistry</i> , 2007 , 100, 211-24	6 50
36	Morphology and physiology of lamina I neurons of the caudal part of the trigeminal nucleus. <i>Neuroscience</i> , 2007 , 147, 325-33	3.9 11
35	Subtype-dependence of N-methyl-D-aspartate receptor modulation by pregnenolone sulfate. <i>Neuroscience</i> , 2006 , 137, 93-102	3.9 86
34	20-oxo-5 β -pregnan-3 α -yl sulfate is a use-dependent NMDA receptor inhibitor. <i>Journal of Neuroscience</i> , 2005 , 25, 8439-50	6.6 56
33	Molecular mechanism of pregnenolone sulfate action at NR1/NR2B receptors. <i>Journal of Neuroscience</i> , 2004 , 24, 10318-25	6.6 70
32	Intracellular spermine decreases open probability of N-methyl-D-aspartate receptor channels. <i>Neuroscience</i> , 2004 , 125, 879-87	3.9 19
31	Vanilloid receptor TRPV1 is not activated by vanilloids applied intracellularly. <i>NeuroReport</i> , 2003 , 14, 1061-5	1.7 28
30	Axotomy-induced changes in the properties of NMDA receptor channels in rat spinal cord motoneurons. <i>Journal of Physiology</i> , 2002 , 538, 53-63	3.9 14
29	Effects of steroids on NMDA receptors and excitatory synaptic transmission in neonatal motoneurons in rat spinal cord slices. <i>European Journal of Neuroscience</i> , 2001 , 14, 495-502	3.5 15

28	Molecular and functional properties of synaptically activated NMDA receptors in neonatal motoneurons in rat spinal cord slices. <i>European Journal of Neuroscience</i> , 2000 , 12, 955-63	3.5	24
27	Axotomy-induced change in the properties of (S)-alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionate receptor channels in rat motoneurons. <i>Neuroscience</i> , 2000 , 99, 119-31	3.9	4
26	Properties of NMDA receptors in rat spinal cord motoneurons. <i>European Journal of Neuroscience</i> , 1999 , 11, 827-36	3.5	36
25	Inflammatory mediators at acidic pH activate capsaicin receptors in cultured sensory neurons from newborn rats. <i>Journal of Neurophysiology</i> , 1998 , 79, 670-6	3.2	93
24	Spontaneous openings of NMDA receptor channels in cultured rat hippocampal neurons. <i>European Journal of Neuroscience</i> , 1997 , 9, 1999-2008	3.5	18
23	Copper modulation of NMDA responses in mouse and rat cultured hippocampal neurons. <i>European Journal of Neuroscience</i> , 1996 , 8, 2257-64	3.5	81
22	G-protein modulation of glycine-resistant NMDA receptor desensitization in rat cultured hippocampal neurons. <i>European Journal of Neuroscience</i> , 1995 , 7, 1826-30	3.5	4
21	Calcium-mediated modulation of N-methyl-D-aspartate (NMDA) responses in cultured rat hippocampal neurones. <i>Journal of Physiology</i> , 1993 , 470, 575-600	3.9	93
20	Pharmacologic properties of NMDA receptors. <i>Annals of the New York Academy of Sciences</i> , 1992 , 648, 194-204	6.5	28
19	Modulation of excitatory synaptic transmission by drugs that reduce desensitization at AMPA/kainate receptors. <i>Neuron</i> , 1991 , 7, 971-84	13.9	274
18	Modulation of N-methyl-D-aspartic acid receptor desensitization by glycine in mouse cultured hippocampal neurones. <i>Journal of Physiology</i> , 1990 , 428, 313-31	3.9	168
17	A kinetic analysis of the modulation of N-methyl-D-aspartic acid receptors by glycine in mouse cultured hippocampal neurones. <i>Journal of Physiology</i> , 1990 , 428, 333-57	3.9	179
16	The effect of external pH changes on responses to excitatory amino acids in mouse hippocampal neurones. <i>Journal of Physiology</i> , 1990 , 430, 497-517	3.9	132
15	Glutamate receptors in cultures of mouse hippocampus studied with fast applications of agonists, modulators and drugs. <i>Advances in Experimental Medicine and Biology</i> , 1990 , 268, 3-11	3.6	3
14	The action of zinc on synaptic transmission and neuronal excitability in cultures of mouse hippocampus. <i>Journal of Physiology</i> , 1989 , 415, 351-65	3.9	115
13	A physiologist's view of the N-methyl-D-Aspartate receptor: An allosteric ion channel with multiple regulatory sites. <i>Drug Development Research</i> , 1989 , 17, 263-280	5.1	36
12	Regulation of NMDA receptor desensitization in mouse hippocampal neurons by glycine. <i>Nature</i> , 1989 , 338, 425-7	50.4	355
11	Open channel block of NMDA receptor responses evoked by tricyclic antidepressants. <i>Neuron</i> , 1989 , 2, 1221-7	13.9	95

10	Modulation of excitatory amino acid receptors by group IIB metal cations in cultured mouse hippocampal neurones. <i>Journal of Physiology</i> , 1989 , 415, 329-50	3.9	231
9	Concanavalin A selectively reduces desensitization of mammalian neuronal quisqualate receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989 , 86, 1411-5	11.5	157
8	Differences in the pore sizes of the N-methyl-D-aspartate and kainate cation channels. <i>Neuroscience Letters</i> , 1988 , 89, 313-8	3.3	21
7	Glutamine-induced membrane currents in cultured chick spinal cord neurons. <i>Neuroscience Letters</i> , 1988 , 90, 333-7	3.3	4
6	Sites of antagonist action on N-methyl-D-aspartic acid receptors studied using fluctuation analysis and a rapid perfusion technique. <i>Journal of Neurophysiology</i> , 1988 , 60, 645-63	3.2	110
5	The action of excitatory amino acids on chick spinal cord neurones in culture. <i>Journal of Physiology</i> , 1987 , 386, 425-38	3.9	44
4	Spider venom of <i>Araneus</i> opens and desensitizes glutamate channels in chick spinal cord neurones. <i>Neuroscience Letters</i> , 1986 , 68, 227-31	3.3	6
3	Evidence that excitatory amino acids not only activate the receptor channel complex but also lead to use-dependent block. <i>Brain Research</i> , 1986 , 363, 148-51	3.7	24
2	Ionic currents in neuroblastoma clone E-7 cells. <i>Neuroscience Letters</i> , 1985 , 55, 197-201	3.3	2
1	Cobalt ions block L-glutamate and L-aspartate-induced currents in cultured neurons from embryonic chick spinal cord. <i>Neuroscience Letters</i> , 1985 , 61, 345-50	3.3	4