

Karel Valeš

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

1,618
citations

257101

24
h-index

377514

34
g-index

80
all docs

80
docs citations

80
times ranked

2033
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel tacrine-tryptophan hybrids: Multi-target directed ligands as potential treatment for Alzheimer's disease. <i>European Journal of Medicinal Chemistry</i> , 2019, 168, 491-514.	2.6	75
2	Neurosteroid modulation of N-methyl-d-aspartate receptors: Molecular mechanism and behavioral effects. <i>Steroids</i> , 2011, 76, 1409-1418.	0.8	63
3	Common mechanisms of pain and depression: are antidepressants also analgesics?. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 99.	1.0	58
4	Application of a novel Active Allothetic Place Avoidance task (AAPA) in testing a pharmacological model of psychosis in rats: comparison with the Morris Water Maze. <i>Neuroscience Letters</i> , 2004, 366, 162-166.	1.0	53
5	The connection between microbiome and schizophrenia. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 108, 712-731.	2.9	50
6	The pharmacology of tacrine at N -methyl- d -aspartate receptors. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2017, 75, 54-62.	2.5	49
7	Analysis of sensitivity to MK-801 treatment in a novel active allothetic place avoidance task and in the working memory version of the Morris water maze reveals differences between Long-Evans and Wistar rats. <i>Neuroscience Research</i> , 2006, 55, 383-388.	1.0	48
8	Preferential Inhibition of Tonic over Phasically Activated NMDA Receptors by Pregnane Derivatives. <i>Journal of Neuroscience</i> , 2016, 36, 2161-2175.	1.7	44
9	Morris water maze learning in Long-Evans rats is differentially affected by blockade of D1-like and D2-like dopamine receptors. <i>Neuroscience Letters</i> , 2007, 422, 169-174.	1.0	43
10	Risperidone and ritanserin but not haloperidol block effect of dizocilpine on the active allothetic place avoidance task. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 1061-1066.	3.3	39
11	The difference in effect of mGlu2/3 and mGlu5 receptor agonists on cognitive impairment induced by MK-801. <i>European Journal of Pharmacology</i> , 2010, 639, 91-98.	1.7	39
12	Two learning tasks provide evidence for disrupted behavioural flexibility in an animal model of schizophrenia-like behaviour induced by acute MK-801: A dose-response study. <i>Behavioural Brain Research</i> , 2013, 246, 55-62.	1.2	39
13	Manipulation of D2 receptors with quinpirole and sulpiride affects locomotor activity before spatial behavior of rats in an active place avoidance task. <i>Neuroscience Research</i> , 2007, 58, 133-139.	1.0	36
14	Cellular and behavioural effects of a new steroidal inhibitor of the N-methyl-d-aspartate receptor 3Î±5Î²-pregnanolone glutamate. <i>Neuropharmacology</i> , 2011, 61, 61-68.	2.0	35
15	Rapamycin blocks the antidepressant effect of ketamine in task-dependent manner. <i>Psychopharmacology</i> , 2016, 233, 2077-2097.	1.5	35
16	Psilocin and ketamine microdosing: effects of subchronic intermittent microdoses in the elevated plus-maze in male Wistar rats. <i>Behavioural Pharmacology</i> , 2018, 29, 530-536.	0.8	33
17	The Effect of Psilocin on Memory Acquisition, Retrieval, and Consolidation in the Rat. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 180.	1.0	32
18	The McGill Transgenic Rat Model of Alzheimer's Disease Displays Cognitive and Motor Impairments, Changes in Anxiety and Social Behavior, and Altered Circadian Activity. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 250.	1.7	31

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19	Chronic MK-801 Application in Adolescence and Early Adulthood: A Spatial Working Memory Deficit in Adult Long-Evans Rats But No Changes in the Hippocampal NMDA Receptor Subunits. <i>Frontiers in Pharmacology</i> , 2018, 9, 42.	1.6	31
20	Orexin supplementation in narcolepsy treatment: A review. <i>Medicinal Research Reviews</i> , 2019, 39, 961-975.	5.0	31
21	Central muscarinic blockade interferes with retrieval and reacquisition of active allothetic place avoidance despite spatial pretraining. <i>Behavioural Brain Research</i> , 2005, 161, 238-244.	1.2	28
22	Systemic administration of MK-801, a non-competitive NMDA-receptor antagonist, elicits a behavioural deficit of rats in the Active Allothetic Place Avoidance (AAPA) task irrespectively of their intact spatial pretraining. <i>Behavioural Brain Research</i> , 2005, 159, 163-171.	1.2	27
23	LC-ESI-MS-MS Method for Monitoring Dopamine, Serotonin and Their Metabolites in Brain Tissue. <i>Chromatographia</i> , 2011, 73, 143-149.	0.7	27
24	Emerging toxicity of 5,6-methylenedioxy-2-aminoindane (MDAI): Pharmacokinetics, behaviour, thermoregulation and LD50 in rats. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2016, 69, 49-59.	2.5	26
25	Effect of dopamine D1 receptor antagonist SCH23390 and D1 agonist A77636 on active allothetic place avoidance, a spatial cognition task. <i>Behavioural Brain Research</i> , 2006, 172, 250-255.	1.2	25
26	Dopamine D2 receptors and alpha1-adrenoceptors synergistically modulate locomotion and behavior of rats in a place avoidance task. <i>Behavioural Brain Research</i> , 2008, 189, 139-144.	1.2	25
27	Scopolamine disrupts place navigation in rats and humans: a translational validation of the Hidden Goal Task in the Morris water maze and a real maze for humans. <i>Psychopharmacology</i> , 2017, 234, 535-547.	1.5	24
28	The Role of Zebrafish and Laboratory Rodents in Schizophrenia Research. <i>Frontiers in Psychiatry</i> , 2020, 11, 703.	1.3	24
29	Nogo-A downregulation impairs place avoidance in the Carousel maze but not spatial memory in the Morris water maze. <i>Neurobiology of Learning and Memory</i> , 2014, 107, 42-49.	1.0	23
30	Neuroprotective effect of the 3Î±5Î²-pregnanolone glutamate treatment in the model of focal cerebral ischemia in immature rats. <i>Neuroscience Letters</i> , 2014, 564, 11-15.	1.0	23
31	7-Methoxyderivative of tacrine is a "foot-in-the-door"™ open-channel blocker of GluN1/GluN2 and GluN1/GluN3 NMDA receptors with neuroprotective activity in vivo. <i>Neuropharmacology</i> , 2018, 140, 217-232.	2.0	23
32	Pregnanolone Glutamate, a Novel Use-Dependent NMDA Receptor Inhibitor, Exerts Antidepressant-Like Properties in Animal Models. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 130.	1.0	22
33	Do the effects of prenatal exposure and acute treatment of methamphetamine on anxiety vary depending on the animal model used?. <i>Behavioural Brain Research</i> , 2015, 292, 361-369.	1.2	22
34	Physicochemical and biological properties of novel amide-based steroidal inhibitors of NMDA receptors. <i>Steroids</i> , 2017, 117, 52-61.	0.8	22
35	Role of alpha1- and alpha2-adrenoceptors in the regulation of locomotion and spatial behavior in the active place avoidance task: A dose-response study. <i>Neuroscience Letters</i> , 2008, 433, 235-240.	1.0	21
36	The effect of prolonged simvastatin application on serotonin uptake, membrane microviscosity and behavioral changes in the animal model. <i>Physiology and Behavior</i> , 2016, 158, 112-120.	1.0	20

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37	The effect of a full agonist/antagonist of the D1 receptor on locomotor activity, sensorimotor gating and cognitive function in dizocilpine-treated rats. <i>International Journal of Neuropsychopharmacology</i> , 2009, 12, 873.	1.0	19
38	Comparison of Long-Evans and Wistar rats in sensitivity to central cholinergic blockade with scopolamine in two spatial tasks: An active place avoidance and the Morris water maze. <i>Physiology and Behavior</i> , 2013, 120, 11-18.	1.0	18
39	Visuospatial working memory is impaired in an animal model of schizophrenia induced by acute MK-801: An effect of pretraining. <i>Pharmacology Biochemistry and Behavior</i> , 2013, 106, 117-123.	1.3	18
40	Validity of Quinpirole Sensitization Rat Model of OCD: Linking Evidence from Animal and Clinical Studies. <i>Frontiers in Behavioral Neuroscience</i> , 2016, 10, 209.	1.0	17
41	Combination of Memantine and 6-Chlorotacrine as Novel Multi-Target Compound against Alzheimer's Disease. <i>Current Alzheimer Research</i> , 2019, 16, 821-833.	0.7	17
42	Tacrine - Benzothiazoles: Novel class of potential multitarget anti-Alzheimer's drugs dealing with cholinergic, amyloid and mitochondrial systems. <i>Bioorganic Chemistry</i> , 2021, 107, 104596.	2.0	17
43	MK-801 Impairs Cognitive Coordination on a Rotating Arena (Carousel) and Contextual Specificity of Hippocampal Immediate-Early Gene Expression in a Rat Model of Psychosis. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 75.	1.0	16
44	Spatial Reversal Learning in Chronically Sensitized Rats and in Undrugged Sensitized Rats with Dopamine D2-Like Receptor Agonist Quinpirole. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 122.	1.0	15
45	A Rat Model of Alzheimer's Disease Based on Abeta42 and Pro-oxidative Substances Exhibits Cognitive Deficit and Alterations in Glutamatergic and Cholinergic Neurotransmitter Systems. <i>Frontiers in Aging Neuroscience</i> , 2016, 8, 83.	1.7	15
46	3Î±5Î²-Pregnanolone glutamate, a use-dependent NMDA antagonist, reversed spatial learning deficit in an animal model of schizophrenia. <i>Behavioural Brain Research</i> , 2012, 235, 82-88.	1.2	14
47	A dose-response study of the effects of pre-test administration of beta-adrenergic receptor antagonist propranolol on the learning of active place avoidance, a spatial cognition task, in rats. <i>Behavioural Brain Research</i> , 2009, 200, 144-149.	1.2	12
48	7-phenoxytacrine is a dually acting drug with neuroprotective efficacy in vivo. <i>Biochemical Pharmacology</i> , 2021, 186, 114460.	2.0	12
49	Baclofen dose-dependently disrupts learning in a place avoidance task requiring cognitive coordination. <i>Physiology and Behavior</i> , 2009, 97, 507-511.	1.0	11
50	Synergistic effects of dopamine D2-like receptor antagonist sulpiride and beta-blocker propranolol on learning in the Carousel maze, a dry-land spatial navigation task. <i>Pharmacology Biochemistry and Behavior</i> , 2012, 102, 151-156.	1.3	11
51	Rat intra-hippocampal NMDA infusion induces cell-specific damage and changes in expression of NMDA and GABA A receptor subunits. <i>Neuropharmacology</i> , 2016, 105, 594-606.	2.0	11
52	Differential effects of stable elevated levels of corticotropin-releasing hormone and systemic corticosterone on various types of rat learning. <i>Neuroendocrinology Letters</i> , 2011, 32, 64-76.	0.2	11
53	N-Methyl-d-Aspartate Receptor - Nitric Oxide Synthase Pathway in the Cortex of Nogo-A-Deficient Rats in Relation to Brain Laterality and Schizophrenia. <i>Frontiers in Behavioral Neuroscience</i> , 2013, 7, 90.	1.0	10
54	Serotonin and dopamine in the parabrachial nucleus of rats during conditioned taste aversion learning. <i>Behavioural Brain Research</i> , 2006, 170, 271-276.	1.2	9

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55	Combined administration of alpha1-adrenoceptor antagonist prazosin and beta-blocker propranolol impairs spatial avoidance learning on a dry arena. <i>Behavioural Brain Research</i> , 2010, 208, 402-407.	1.2	9
56	Detrimental effect of clomipramine on hippocampus-dependent learning in an animal model of obsessive-compulsive disorder induced by sensitization with d2/d3 agonist quinpirole. <i>Behavioural Brain Research</i> , 2017, 317, 210-217.	1.2	9
57	Structure-activity relationships of dually-acting acetylcholinesterase inhibitors derived from tacrine on N-methyl-D-Aspartate receptors. <i>European Journal of Medicinal Chemistry</i> , 2021, 219, 113434.	2.6	9
58	Metabotropic glutamate receptor antagonists but not NMDA antagonists affect conditioned taste aversion acquisition in the parabrachial nucleus of rats. <i>Experimental Brain Research</i> , 2006, 169, 50-57.	0.7	8
59	MK-801 and memantine act differently on short-term memory tested with different time-intervals in the Morris water maze test. <i>Behavioural Brain Research</i> , 2016, 311, 15-23.	1.2	8
60	Neonatal immune activation by lipopolysaccharide causes inadequate emotional responses to novel situations but no changes in anxiety or cognitive behavior in Wistar rats. <i>Behavioural Brain Research</i> , 2018, 349, 42-53.	1.2	8
61	Interactions of 17 β -Hydroxysteroid Dehydrogenase Type 10 and Cyclophilin D in Alzheimer's Disease. <i>Neurochemical Research</i> , 2020, 45, 915-927.	1.6	8
62	Effect of stress on structural brain asymmetry. <i>Neuroendocrinology Letters</i> , 2016, 37, 253-264.	0.2	8
63	Dizocilpine (MK-801) impairs learning in the active place avoidance task but has no effect on the performance during task/context alternation. <i>Behavioural Brain Research</i> , 2016, 305, 247-257.	1.2	6
64	The Neuroactive Steroid Pregnanolone Glutamate: Anticonvulsant Effect, Metabolites and Its Effect on Neurosteroid Levels in Developing Rat Brains. <i>Pharmaceuticals</i> , 2022, 15, 49.	1.7	6
65	Inter-individual differences in laboratory rats as revealed by three behavioural tasks. <i>Scientific Reports</i> , 2022, 12, .	1.6	6
66	Synthesis of deuterium labeled NMDA receptor inhibitor " 20-Oxo-5 β -[9,12,12-2H ₃]pregnan-3 α -yl-L-glutamyl 1-ester. <i>Steroids</i> , 2012, 77, 282-287.	0.8	5
67	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, 1026.	1.8	5
68	Behavioral Tests for Evaluation of Information Processing and Cognitive Deficits in Rodent Animal Models of Neuropsychiatric Disorders. , 0, , .		4
69	Adult neurogenesis reduction by a cytostatic treatment improves spatial reversal learning in rats. <i>Neurobiology of Learning and Memory</i> , 2017, 141, 93-100.	1.0	4
70	Effects of the adipokinetic hormone/red pigment-concentrating hormone (<sc>AKH</sc>/<sc>RPCH</sc>) family of peptides on <sc>MK</sc>-801-induced schizophrenia models. <i>Fundamental and Clinical Pharmacology</i> , 2018, 32, 589-602.	1.0	4
71	The Effect of Hypertension on Adult Hippocampal Neurogenesis in Young Adult Spontaneously Hypertensive Rats and Dahl Rats. <i>Physiological Research</i> , 2017, 66, 881-887.	0.4	3
72	Synthetic structural modifications of neurosteroid pregnanolone sulfate: Assessment of neuroprotective effects in vivo. <i>European Journal of Pharmacology</i> , 2020, 881, 173187.	1.7	3

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73	Effects of adipokinetic hormone/red pigment-concentrating hormone family of peptides in olfactory bulbectomy model and posttraumatic stress disorder model of rats. <i>Peptides</i> , 2020, 134, 170408.	1.2	2
74	Glycolytic and Krebs cycle enzymes activity in rat prefrontal cortex, hippocampus, and striatum after single and repeated NMDA inhibition by MK-801. <i>NeuroToxicology</i> , 2022, 90, 35-47.	1.4	2
75	Three neurosteroids as well as GABAergic drugs do not convert immediate postictal potentiation to depression in immature rats. <i>Pharmacological Reports</i> , 2020, 72, 1573-1578.	1.5	1
76	D.10 - ANTIDEPRESANT PROPERTIES OF 3 β -C SUBSTITUTED DERIVATIVES OF PREGNANOLONE, A NOVEL USE-DEPENDENT NMDA ANTAGONISTS. <i>Behavioural Pharmacology</i> , 2013, 24, e40.	0.8	0
77	D.5 - MILD PROTECTIVE EFFECT OF 3 β -5 α -PREGNANOLONE GLUTAMATE IN THE MODEL OF FOCAL CEREBRAL ISCHEMIA IN IMMATURE RATS. <i>Behavioural Pharmacology</i> , 2013, 24, e38.	0.8	0