Karel ValeÅ¡

List of Publications by Year
in descending order

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77	1,618	257101	377514
papers	citations	24 h-index	34 g-index

80	80	80	2033
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Glycolytic and Krebs cycle enzymes activity in rat prefrontal cortex, hippocampus, and striatum after single and repeated NMDA inhibition by MK-801. NeuroToxicology, 2022, 90, 35-47.	1.4	2
2	The Neuroactive Steroid Pregnanolone Glutamate: Anticonvulsant Effect, Metabolites and Its Effect on Neurosteroid Levels in Developing Rat Brains. Pharmaceuticals, 2022, 15, 49.	1.7	6
3	Inter-individual differences in laboratory rats as revealed by three behavioural tasks. Scientific Reports, 2022, 12, .	1.6	6
4	Tacrine â€“ Benzothiazoles: Novel class of potential multitarget anti-AlzheimeÅ•s drugs dealing with cholinergic, amyloid and mitochondrial systems. Bioorganic Chemistry, 2021, 107, 104596.	2.0	17
5	7-phenoxytacrine is a dually acting drug with neuroprotective efficacy in vivo. Biochemical Pharmacology, 2021, 186, 114460.	2.0	12
6	Structure-activity relationships of dually-acting acetylcholinesterase inhibitors derived from tacrine on N-methyl-d-Aspartate receptors. European Journal of Medicinal Chemistry, 2021, 219, 113434.	2.6	9
7	Pitfalls of NMDA Receptor Modulation by Neuroactive Steroids. The Effect of Positive and Negative Modulation of NMDA Receptors in an Animal Model of Schizophrenia. Biomolecules, 2021, 11, 1026.	1.8	5
8	The connection between microbiome and schizophrenia. Neuroscience and Biobehavioral Reviews, 2020, 108, 712-731.	2.9	50
9	The Role of Zebrafish and Laboratory Rodents in Schizophrenia Research. Frontiers in Psychiatry, 2020, 11, 703.	1.3	24
10	Effects of adipokinetic hormone/red pigment-concentrating hormone family of peptides in olfactory bulbectomy model and posttraumatic stress disorder model of rats. Peptides, 2020, 134, 170408.	1.2	2
11	Three neurosteroids as well as GABAergic drugs do not convert immediate postictal potentiation to depression in immature rats. Pharmacological Reports, 2020, 72, 1573-1578.	1.5	1
12	Interactions of 17Î²-Hydroxysteroid Dehydrogenase Type 10 and Cyclophilin D in Alzheimer's Disease. Neurochemical Research, 2020, 45, 915-927.	1.6	8
13	Synthetic structural modifications of neurosteroid pregnanolone sulfate: Assessment of neuroprotective effects in vivo. European Journal of Pharmacology, 2020, 881, 173187.	1.7	3
14	Novel tacrine-tryptophan hybrids: Multi-target directed ligands as potential treatment for Alzheimer's disease. European Journal of Medicinal Chemistry, 2019, 168, 491-514.	2.6	75
15	Combination of Memantine and 6-Chlorotacrine as Novel Multi-Target Compound against Alzheimerâ€™s Disease. Current Alzheimer Research, 2019, 16, 821-833.	0.7	17
16	Orexin supplementation in narcolepsy treatment: A review. Medicinal Research Reviews, 2019, 39, 961-975.	5.0	31
17	Psilocin and ketamine microdosing: effects of subchronic intermittent microdoses in the elevated plus-maze in male Wistar rats. Behavioural Pharmacology, 2018, 29, 530-536.	0.8	33
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. Frontiers in Aging Neuroscience, 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. Frontiers in Pharmacology, 2018, 9, 42.	1.6	31
20	Neonatal immune activation by lipopolysaccharide causes inadequate emotional responses to novel situations but no changes in anxiety or cognitive behavior in Wistar rats. Behavioural Brain Research, 2018, 349, 42-53.	1.2	8
21	7-Methoxyderivative of tacrine is a â€˜foot-in-the-doorâ€™ open-channel blocker of GluN1/GluN2 and GluN1/GluN3 NMDA receptors with neuroprotective activity in vivo. Neuropharmacology, 2018, 140, 217-232.	2.0	23
22	Effects of the adipokinetic hormone/red pigmentâ€concentrating hormone (<scp>AKH</scp>/<scp>RPCH</scp>) family of peptides on <scp>MK</scp>â€801â€induced schizophrenia models. Fundamental and Clinical Pharmacology, 2018, 32, 589-602.	1.0	4
23	The pharmacology of tacrine at N -methyl- d -aspartate receptors. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2017, 75, 54-62.	2.5	49
24	Adult neurogenesis reduction by a cytostatic treatment improves spatial reversal learning in rats. Neurobiology of Learning and Memory, 2017, 141, 93-100.	1.0	4
25	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. Psychopharmacology, 2017, 234, 535-547.	1.5	24
26	Physicochemical and biological properties of novel amide-based steroidal inhibitors of NMDA receptors. Steroids, 2017, 117, 52-61.	0.8	22
27	Detrimental effect of clomipramine on hippocampus-dependent learning in an animal model of obsessive-compulsive disorder induced by sensitization with d2/d3 agonist quinpirole. Behavioural Brain Research, 2017, 317, 210-217.	1.2	9
28	The Effect of Hypertension on Adult Hippocampal Neurogenesis in Young Adult Spontaneously Hypertensive Rats and Dahl Rats. Physiological Research, 2017, 66, 881-887.	0.4	3
29	A Rat Model of Alzheimerâ€™s Disease Based on Abeta42 and Pro-oxidative Substances Exhibits Cognitive Deficit and Alterations in Glutamatergic and Cholinergic Neurotransmitter Systems. Frontiers in Aging Neuroscience, 2016, 8, 83.	1.7	15
30	Validity of Quinpirole Sensitization Rat Model of OCD: Linking Evidence from Animal and Clinical Studies. Frontiers in Behavioral Neuroscience, 2016, 10, 209.	1.0	17
31	Dizocilpine (MK-801) impairs learning in the active place avoidance task but has no effect on the performance during task/context alternation. Behavioural Brain Research, 2016, 305, 247-257.	1.2	6
32	Rapamycin blocks the antidepressant effect of ketamine in task-dependent manner. Psychopharmacology, 2016, 233, 2077-2097.	1.5	35
33	Emerging toxicity of 5,6-methylenedioxy-2-aminoindane (MDAI): Pharmacokinetics, behaviour, thermoregulation and LD50 in rats. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2016, 69, 49-59.	2.5	26
34	MK-801 and memantine act differently on short-term memory tested with different time-intervals in the Morris water maze test. Behavioural Brain Research, 2016, 311, 15-23.	1.2	8
35	The effect of prolonged simvastatin application on serotonin uptake, membrane microviscosity and behavioral changes in the animal model. Physiology and Behavior, 2016, 158, 112-120.	1.0	20
36	Preferential Inhibition of Tonically over Phasically Activated NMDA Receptors by Pregnane Derivatives. Journal of Neuroscience, 2016, 36, 2161-2175.	1.7	44

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37	Rat intra-hippocampal NMDA infusion induces cell-specific damage and changes in expression of NMDA and GABA A receptor subunits. Neuropharmacology, 2016, 105, 594-606.	2.0	11
38	Effect of stress on structural brain asymmetry. Neuroendocrinology Letters, 2016, 37, 253-264.	0.2	8
39	Do the effects of prenatal exposure and acute treatment of methamphetamine on anxiety vary depending on the animal model used?. Behavioural Brain Research, 2015, 292, 361-369.	1.2	22
40	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. Frontiers in Behavioral Neuroscience, 2014, 8, 75.	1.0	16
41	Common mechanisms of pain and depression: are antidepressants also analgesics?. Frontiers in Behavioral Neuroscience, 2014, 8, 99.	1.0	58
42	Spatial Reversal Learning in Chronically Sensitized Rats and in Undrugged Sensitized Rats with Dopamine D2-Like Receptor Agonist Quinpirole. Frontiers in Behavioral Neuroscience, 2014, 8, 122.	1.0	15
43	Pregnanolone Glutamate, a Novel Use-Dependent NMDA Receptor Inhibitor, Exerts Antidepressant-Like Properties in Animal Models. Frontiers in Behavioral Neuroscience, 2014, 8, 130.	1.0	22
44	The Effect of Psilocin on Memory Acquisition, Retrieval, and Consolidation in the Rat. Frontiers in Behavioral Neuroscience, 2014, 8, 180.	1.0	32
45	Nogo-A downregulation impairs place avoidance in the Carousel maze but not spatial memory in the Morris water maze. Neurobiology of Learning and Memory, 2014, 107, 42-49.	1.0	23
46	Neuroprotective effect of the 3Î±5Î²-pregnanolone glutamate treatment in the model of focal cerebral ischemia in immature rats. Neuroscience Letters, 2014, 564, 11-15.	1.0	23
47	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. Physiology and Behavior, 2013, 120, 11-18.	1.0	18
48	Visuospatial working memory is impaired in an animal model of schizophrenia induced by acute MK-801: An effect of pretraining. Pharmacology Biochemistry and Behavior, 2013, 106, 117-123.	1.3	18
49	Two learning tasks provide evidence for disrupted behavioural flexibility in an animal model of schizophrenia-like behaviour induced by acute MK-801: A doseâ€“response study. Behavioural Brain Research, 2013, 246, 55-62.	1.2	39
50	D.10 - ANTIDEPRESANT PROPERTIES OF 3Î±C SUBSTITUTED DERIVATIVES OF PREGNANOLONE, A NOVEL USE-DEPENDENT NMDA ANTAGONISTS. Behavioural Pharmacology, 2013, 24, e40.	0.8	0
51	D.5 - MILD PROTECTIVE EFFECT OF 3Î±5Î²-PREGNANOLONE GLUTAMATE IN THE MODEL OF FOCAL CEREBRAL ISCHEMIA IN IMMATURE RATS. Behavioural Pharmacology, 2013, 24, e38.	0.8	0
52	N-Methyl-d-Aspartate Receptor â€“ Nitric Oxide Synthase Pathway in the Cortex of Nogo-A-Deficient Rats in Relation to Brain Laterality and Schizophrenia. Frontiers in Behavioral Neuroscience, 2013, 7, 90.	1.0	10
53	Synthesis of deuterium labeled NMDA receptor inhibitor â€“ 20-Oxo-5Î²-[9,12,12-2H3]pregnan-3Î±-yl-l-glutamyl 1-ester. Steroids, 2012, 77, 282-287.	0.8	5
54	3Î±5Î²-Pregnanolone glutamate, a use-dependent NMDA antagonist, reversed spatial learning deficit in an animal model of schizophrenia. Behavioural Brain Research, 2012, 235, 82-88.	1.2	14

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55	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. Pharmacology Biochemistry and Behavior, 2012, 102, 151-156.	1.3	11
56	Neurosteroid modulation of N-methyl-d-aspartate receptors: Molecular mechanism and behavioral effects. Steroids, 2011, 76, 1409-1418.	0.8	63
57	Cellular and behavioural effects of a new steroidal inhibitor of the N-methyl-d-aspartate receptor 3Î±5Î²-pregnanolone glutamate. Neuropharmacology, 2011, 61, 61-68.	2.0	35
58	LC-ESI-MS-MS Method for Monitoring Dopamine, Serotonin and Their Metabolites in Brain Tissue. Chromatographia, 2011, 73, 143-149.	0.7	27
59	Differential effects of stable elevated levels of corticotropin-releasing hormone and systemic corticosterone on various types of rat learning. Neuroendocrinology Letters, 2011, 32, 64-76.	0.2	11
60	The difference in effect of mGlu2/3 and mGlu5 receptor agonists on cognitive impairment induced by MK-801. European Journal of Pharmacology, 2010, 639, 91-98.	1.7	39
61	Combined administration of alpha1-adrenoceptor antagonist prazosin and beta-blocker propranolol impairs spatial avoidance learning on a dry arena. Behavioural Brain Research, 2010, 208, 402-407.	1.2	9
62	The effect of a full agonist/antagonist of the D1 receptor on locomotor activity, sensorimotor gating and cognitive function in dizocilpine-treated rats. International Journal of Neuropsychopharmacology, 2009, 12, 873.	1.0	19
63	A doseâ€“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. Behavioural Brain Research, 2009, 200, 144-149.	1.2	12
64	Baclofen dose-dependently disrupts learning in a place avoidance task requiring cognitive coordination. Physiology and Behavior, 2009, 97, 507-511.	1.0	11
65	Role of alpha1- and alpha2-adrenoceptors in the regulation of locomotion and spatial behavior in the active place avoidance task: A doseâ€“response study. Neuroscience Letters, 2008, 433, 235-240.	1.0	21
66	Dopamine D2 receptors and alpha1-adrenoceptors synergistically modulate locomotion and behavior of rats in a place avoidance task. Behavioural Brain Research, 2008, 189, 139-144.	1.2	25
67	Risperidone and ritanserin but not haloperidol block effect of dizocilpine on the active allothetic place avoidance task. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1061-1066.	3.3	39
68	Morris water maze learning in Long-Evans rats is differentially affected by blockade of D1-like and D2-like dopamine receptors. Neuroscience Letters, 2007, 422, 169-174.	1.0	43
69	Manipulation of D2 receptors with quinpirole and sulpiride affects locomotor activity before spatial behavior of rats in an active place avoidance task. Neuroscience Research, 2007, 58, 133-139.	1.0	36
70	Serotonin and dopamine in the parabrachial nucleus of rats during conditioned taste aversion learning. Behavioural Brain Research, 2006, 170, 271-276.	1.2	9
71	Effect of dopamine D1 receptor antagonist SCH23390 and D1 agonist A77636 on active allothetic place avoidance, a spatial cognition task. Behavioural Brain Research, 2006, 172, 250-255.	1.2	25
72	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. Neuroscience Research, 2006, 55, 383-388.	1.0	48

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73	Metabotropic glutamate receptor antagonists but not NMDA antagonists affect conditioned taste aversion acquisition in the parabrachial nucleus of rats. Experimental Brain Research, 2006, 169, 50-57.	0.7	8
74	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. Behavioural Brain Research, 2005, 159, 163-171.	1.2	27
75	Central muscarinic blockade interferes with retrieval and reacquisition of active allothetic place avoidance despite spatial pretraining. Behavioural Brain Research, 2005, 161, 238-244.	1.2	28
76	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. Neuroscience Letters, 2004, 366, 162-166.	1.0	53
77	Behavioral Tests for Evaluation of Information Processing and Cognitive Deficits in Rodent Animal Models of Neuropsychiatric Disorders. , 0, , .		4