

Maarten Loos

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

2,404
citations

172457

29
h-index

223800

46
g-index

57
all docs

57
docs citations

57
times ranked

4069
citing authors

#	ARTICLE	IF	CITATIONS
1	Nicotinic Acetylcholine Receptor $\alpha 2$ Subunits in the Medial Prefrontal Cortex Control Attention. <i>Science</i> , 2011, 333, 888-891.	12.6	168
2	Astrocytes are central in the pathomechanisms of vanishing white matter. <i>Journal of Clinical Investigation</i> , 2016, 126, 1512-1524.	8.2	113
3	Lasting synaptic changes underlie attention deficits caused by nicotine exposure during adolescence. <i>Nature Neuroscience</i> , 2011, 14, 417-419.	14.8	111
4	Extracellular Matrix Plasticity and GABAergic Inhibition of Prefrontal Cortex Pyramidal Cells Facilitates Relapse to Heroin Seeking. <i>Neuropsychopharmacology</i> , 2010, 35, 2120-2133.	5.4	110
5	Rat Liver Peroxisomes after Fibrate Treatment. <i>Journal of Biological Chemistry</i> , 2007, 282, 23055-23069.	3.4	107
6	Proteomics, Ultrastructure, and Physiology of Hippocampal Synapses in a Fragile X Syndrome Mouse Model Reveal Presynaptic Phenotype. <i>Journal of Biological Chemistry</i> , 2011, 286, 25495-25504.	3.4	90
7	Protein instability, haploinsufficiency, and cortical hyper-excitability underlie STXBP1 encephalopathy. <i>Brain</i> , 2018, 141, 1350-1374.	7.6	87
8	Dopamine Receptor D1/D5 Gene Expression in the Medial Prefrontal Cortex Predicts Impulsive Choice in Rats. <i>Cerebral Cortex</i> , 2010, 20, 1064-1070.	2.9	86
9	Epileptiform Activity and Cognitive Deficits in SNAP-25 ^{+/Δ} Mice are Normalized by Antiepileptic Drugs. <i>Cerebral Cortex</i> , 2014, 24, 364-376.	2.9	78
10	Sheltering Behavior and Locomotor Activity in 11 Genetically Diverse Common Inbred Mouse Strains Using Home-Cage Monitoring. <i>PLoS ONE</i> , 2014, 9, e108563.	2.5	76
11	Inhibitory control and response latency differences between C57BL/6J and DBA/2J mice in a Go/No-Go and 5-choice serial reaction time task and strain-specific responsivity to amphetamine. <i>Behavioural Brain Research</i> , 2010, 214, 216-224.	2.2	69
12	iTRAQ-based Proteomics Profiling Reveals Increased Metabolic Activity and Cellular Cross-talk in Angiogenic Compared with Invasive Glioblastoma Phenotype. <i>Molecular and Cellular Proteomics</i> , 2009, 8, 2595-2612.	3.8	65
13	High-fat diet ameliorates neurological deficits caused by defective astrocyte lipid metabolism. <i>FASEB Journal</i> , 2012, 26, 4302-4315.	0.5	63
14	Neuregulin-3 in the Mouse Medial Prefrontal Cortex Regulates Impulsive Action. <i>Biological Psychiatry</i> , 2014, 76, 648-655.	1.3	55
15	Activity and impulsive action are controlled by different genetic and environmental factors. <i>Genes, Brain and Behavior</i> , 2009, 8, 817-828.	2.2	54
16	Cognitive impact of cytotoxic agents in mice. <i>Psychopharmacology</i> , 2015, 232, 17-37.	3.1	53
17	Strain specificity and cholinergic modulation of visuospatial attention in three inbred mouse strains. <i>Genes, Brain and Behavior</i> , 2007, 6, 579-587.	2.2	52
18	Hippocampal Extracellular Matrix Levels and Stochasticity in Synaptic Protein Expression Increase with Age and Are Associated with Age-dependent Cognitive Decline. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 2975-2985.	3.8	52

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19	The Synaptic Proteome during Development and Plasticity of the Mouse Visual Cortex. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M110.005413.	3.8	51
20	Peroxisomes from the Heavy Mitochondrial Fraction: Isolation by Zonal Free Flow Electrophoresis and Quantitative Mass Spectrometrical Characterization. <i>Journal of Proteome Research</i> , 2010, 9, 113-124.	3.7	50
21	Quantitative Proteomics and Protein Network Analysis of Hippocampal Synapses of CaMKII β Mutant Mice. <i>Journal of Proteome Research</i> , 2007, 6, 3127-3133.	3.7	49
22	Hyperactivity, perseveration and increased responding during attentional rule acquisition in the Fragile X mouse model. <i>Frontiers in Behavioral Neuroscience</i> , 2013, 7, 172.	2.0	49
23	High-throughput phenotyping of avoidance learning in mice discriminates different genotypes and identifies a novel gene. <i>Genes, Brain and Behavior</i> , 2012, 11, 772-784.	2.2	48
24	Measuring Behavior in the Home Cage: Study Design, Applications, Challenges, and Perspectives. <i>Frontiers in Behavioral Neuroscience</i> , 2021, 15, 735387.	2.0	46
25	Lesions of the Medial Prefrontal Cortex Cause Maladaptive Sexual Behavior in Male Rats. <i>Biological Psychiatry</i> , 2010, 67, 1199-1204.	1.3	45
26	A one-week 5-choice serial reaction time task to measure impulsivity and attention in adult and adolescent mice. <i>Scientific Reports</i> , 2017, 7, 42519.	3.3	39
27	Within-strain variation in behavior differs consistently between common inbred strains of mice. <i>Mammalian Genome</i> , 2015, 26, 348-354.	2.2	38
28	A Postnatal Diet Containing Phospholipids, Processed to Yield Large, Phospholipid-Coated Lipid Droplets, Affects Specific Cognitive Behaviors in Healthy Male Mice. <i>Journal of Nutrition</i> , 2016, 146, 1155-1161.	2.9	38
29	Simultaneous assessment of cognitive function, circadian rhythm, and spontaneous activity in aging mice. <i>GeroScience</i> , 2018, 40, 123-137.	4.6	37
30	Neurobiological changes by cytotoxic agents in mice. <i>Behavioural Brain Research</i> , 2016, 299, 19-26.	2.2	36
31	The light spot test: Measuring anxiety in mice in an automated home-cage environment. <i>Behavioural Brain Research</i> , 2015, 294, 123-130.	2.2	35
32	Cognitive flexibility deficits in a mouse model for the absence of full-length dystrophin. <i>Genes, Brain and Behavior</i> , 2016, 15, 558-567.	2.2	31
33	Strain Differences in Presynaptic Function. <i>Journal of Biological Chemistry</i> , 2015, 290, 15635-15645.	3.4	30
34	Measuring discrimination- and reversal learning in mouse models within 4 days and without prior food deprivation. <i>Learning and Memory</i> , 2016, 23, 660-667.	1.3	29
35	Ubiquitin ligase TRIM3 controls hippocampal plasticity and learning by regulating synaptic β -actin levels. <i>Journal of Cell Biology</i> , 2015, 211, 569-586.	5.2	28
36	An automated home-cage-based 5-choice serial reaction time task for rapid assessment of attention and impulsivity in rats. <i>Psychopharmacology</i> , 2019, 236, 2015-2026.	3.1	22

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37	Quantitative cortical synapse proteomics of a transgenic migraine mouse model with mutated Ca _v 2.1 calcium channels. <i>Proteomics</i> , 2010, 10, 2531-2535.	2.2	21
38	Tomosyn-2 is required for normal motor performance in mice and sustains neurotransmission at motor endplates. <i>Brain Structure and Function</i> , 2015, 220, 1971-1982.	2.3	21
39	Independent genetic loci for sensorimotor gating and attentional performance in BXD recombinant inbred strains. <i>Genes, Brain and Behavior</i> , 2012, 11, 147-156.	2.2	19
40	Identification of <i>Srp9</i> as a febrile seizure susceptibility gene. <i>Annals of Clinical and Translational Neurology</i> , 2014, 1, 239-250.	3.7	18
41	Enhanced alcohol self-administration and reinstatement in a highly impulsive, inattentive recombinant inbred mouse strain. <i>Frontiers in Behavioral Neuroscience</i> , 2013, 7, 151.	2.0	16
42	Altered Phase-Relationship between Peripheral Oscillators and Environmental Time in Cry1 or Cry2 Deficient Mouse Models for Early and Late Chronotypes. <i>PLoS ONE</i> , 2013, 8, e83602.	2.5	15
43	A 1-night operant learning task without food-restriction differentiates among mouse strains in an automated home-cage environment. <i>Behavioural Brain Research</i> , 2015, 283, 53-60.	2.2	15
44	Reproducibility via coordinated standardization: a multi-center study in a Shank2 genetic rat model for Autism Spectrum Disorders. <i>Scientific Reports</i> , 2019, 9, 11602.	3.3	15
45	Aging-Induced Proteostatic Changes in the Rat Hippocampus Identify ARP3, NEB2 and BRAG2 as a Molecular Circuitry for Cognitive Impairment. <i>PLoS ONE</i> , 2013, 8, e75112.	2.5	14
46	Functional characterization of the PCLO p.Ser4814Ala variant associated with major depressive disorder reveals cellular but not behavioral differences. <i>Neuroscience</i> , 2015, 300, 518-538.	2.3	13
47	Novel Candidate Genes Associated with Hippocampal Oscillations. <i>PLoS ONE</i> , 2011, 6, e26586.	2.5	10
48	Impact of genetic variation on synaptic protein levels in genetically diverse mice. <i>Proteomics</i> , 2016, 16, 1123-1130.	2.2	9
49	Genetic Variation in CNS Myelination and Functional Brain Connectivity in Recombinant Inbred Mice. <i>Cells</i> , 2020, 9, 2119.	4.1	5
50	Prefrontal cortical neuregulin-ErbB modulation of inhibitory control in rats. <i>European Journal of Pharmacology</i> , 2016, 781, 157-163.	3.5	4
51	AHCODA-DB: a data repository with web-based mining tools for the analysis of automated high-content mouse phenomics data. <i>BMC Bioinformatics</i> , 2017, 18, 200.	2.6	4
52	Constitutive loss and acute pharmacological manipulation of ErbB4 signaling do not affect attention and inhibitory control in mice. <i>Genes, Brain and Behavior</i> , 2018, 17, 56-69.	2.2	4
53	Assessment of Behavioral Characteristics With Procedures of Minimal Human Interference in the mdx Mouse Model for Duchenne Muscular Dystrophy. <i>Frontiers in Behavioral Neuroscience</i> , 2020, 14, 629043.	2.0	3
54	Complex Genetics of Behavior: BXDs in the Automated Home-Cage. <i>Methods in Molecular Biology</i> , 2017, 1488, 519-530.	0.9	3

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55	Bioinformatics Procedures for Analysis of Quantitative Proteomics Experiments Using iTRAQ. <i>Neuromethods</i> , 2011, , 275-296.	0.3	3
56	Glycine receptor subunit- β -deficiency in a mouse model of spasticity results in attenuated physical performance, growth, and muscle strength. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2022, 322, R368-R388.	1.8	2