Tao Lin

List of Publications by Year
in descending order

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42 papers	1,885 citations	279798 23 h-index	276875 41 g-index
48 all docs	48 docs citations	48 times ranked	2011 citing authors

#	Article	IF	Citations
1	Ankyrin-R Links Kv3.3 to the Spectrin Cytoskeleton and Is Required for Purkinje Neuron Survival. Journal of Neuroscience, 2022, 42, 2-15.	3.6	13
2	Neuromodulation of the cerebellum rescues movement in a mouse model of ataxia. Nature Communications, 2021, 12, 1295.	12.8	44
3	Maturation of Purkinje cell firing properties relies on neurogenesis of excitatory neurons. ELife, 2021, 10, .	6.0	28
4	Structural analysis of CACHE domain of the McpA chemoreceptor from Leptospira interrogans. Biochemical and Biophysical Research Communications, 2020, 533, 1323-1329.	2.1	2
5	The intergenic small non-coding RNA ittA is required for optimal infectivity and tissue tropism in Borrelia burgdorferi. PLoS Pathogens, 2020, 16, e1008423.	4.7	13
6	BBB07 contributes to, but is not essential for, Borrelia burgdorferi infection in mice. Microbiology (United Kingdom), 2020, 166, 988-994.	1.8	2
7	Purkinje cell misfiring generates high-amplitude action tremors that are corrected by cerebellar deep brain stimulation. ELife, 2020, 9, .	6.0	57
8	Purkinje cell neurotransmission patterns cerebellar basket cells into zonal modules defined by distinct pinceau sizes. ELife, 2020, 9, .	6.0	25
9	Genome-wide screen identifies novel genes required for Borrelia burgdorferi survival in its Ixodes tick vector. PLoS Pathogens, 2019, 15, e1007644.	4.7	25
10	Molecular layer interneurons shape the spike activity of cerebellar Purkinje cells. Scientific Reports, 2019, 9, 1742.	3.3	80
11	ATXN1-CIC Complex Is the Primary Driver of Cerebellar Pathology in Spinocerebellar Ataxia Type 1 through a Gain-of-Function Mechanism. Neuron, 2018, 97, 1235-1243.e5.	8.1	79
12	Genome-Wide Mutagenesis in Borrelia burgdorferi. Methods in Molecular Biology, 2018, 1690, 201-223.	0.9	5
13	The Borrelia burgdorferi Glycosaminoglycan Binding Protein Bgp in the B31 Strain Is Not Essential for Infectivity despite Facilitating Adherence and Tissue Colonization. Infection and Immunity, 2018, 86, .	2.2	20
14	Cryo-electron tomography of periplasmic flagella in Borrelia burgdorferi reveals a distinct cytoplasmic ATPase complex. PLoS Biology, 2018, 16, e3000050.	5.6	21
15	MLL4 Is Required to Maintain Broad H3K4me3 Peaks and Super-Enhancers at Tumor Suppressor Genes. Molecular Cell, 2018, 70, 825-841.e6.	9.7	123
16	Structure and analysis of nucleoside diphosphate kinase fromBorrelia burgdorferiprepared in a transition-state complex with ADP and vanadate moieties. Acta Crystallographica Section F, Structural Biology Communications, 2018, 74, 373-384.	0.8	1
17	A high-throughput genetic screen identifies previously uncharacterized Borrelia burgdorferi genes important for resistance against reactive oxygen and nitrogen species. PLoS Pathogens, 2017, 13, e1006225.	4.7	36
18	The Nucleotide Excision Repair Pathway Protects Borrelia burgdorferi from Nitrosative Stress in Ixodes scapularis Ticks. Frontiers in Microbiology, 2016, 7, 1397.	3.5	26

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19	Global Tnâ€seq analysis of carbohydrate utilization and vertebrate infectivity of Borrelia burgdorferi. Molecular Microbiology, 2016, 101, 1003-1023.	2.5	47
20	Function of the Borrelia burgdorferi FtsH Homolog Is Essential for Viability both In Vitro and In Vivo and Independent of HflK/C. MBio, 2016, 7, e00404-16.	4.1	26
21	An optimized surgical approach for obtaining stable extracellular single-unit recordings from the cerebellum of head-fixed behaving mice. Journal of Neuroscience Methods, 2016, 262, 21-31.	2.5	27
22	Phosphoenolpyruvate Phosphotransferase System Components Modulate Gene Transcription and Virulence of Borrelia burgdorferi. Infection and Immunity, 2016, 84, 754-764.	2.2	31
23	Mutations in the Borrelia burgdorferi Flagellar Type III Secretion System Genes fliH and fliI Profoundly Affect Spirochete Flagellar Assembly, Morphology, Motility, Structure, and Cell Division. MBio, 2015, 6, e00579-15.	4.1	32
24	In vivo analysis of Purkinje cell firing properties during postnatal mouse development. Journal of Neurophysiology, 2015, 113, 578-591.	1.8	78
25	Transposon mutagenesis as an approach to improved understanding of Borrelia pathogenesis and biology. Frontiers in Cellular and Infection Microbiology, 2014, 4, 63.	3.9	47
26	Understanding Barriers to Borrelia burgdorferi Dissemination during Infection Using Massively Parallel Sequencing. Infection and Immunity, 2013, 81, 2347-2357.	2.2	58
27	Analysis of an Ordered, Comprehensive STM Mutant Library in Infectious Borrelia burgdorferi: Insights into the Genes Required for Mouse Infectivity. PLoS ONE, 2012, 7, e47532.	2.5	127
28	Out of the Woods: the Remarkable Genomes of the Genus Borrelia. Journal of Bacteriology, 2011, 193, 6812-6814.	2.2	5
29	High-Throughput Plasmid Content Analysis of Borrelia burgdorferi B31 by Using Luminex Multiplex Technology. Applied and Environmental Microbiology, 2011, 77, 1483-1492.	3.1	29
30	Role of Acetyl-Phosphate in Activation of the Rrp2-RpoN-RpoS Pathway in Borrelia burgdorferi. PLoS Pathogens, 2010, 6, e1001104.	4.7	78
31	Central Role of the Holliday Junction Helicase RuvAB in vlsE Recombination and Infectivity of Borrelia burgdorferi. PLoS Pathogens, 2009, 5, e1000679.	4.7	68
32	Intact Flagellar Motor of Borrelia burgdorferi Revealed by Cryo-Electron Tomography: Evidence for Stator Ring Curvature and Rotor/C-Ring Assembly Flexion. Journal of Bacteriology, 2009, 191, 5026-5036.	2.2	147
33	Delineation of a New Species of the Borrelia burgdorferi Sensu Lato Complex, Borrelia americana sp. nov. Journal of Clinical Microbiology, 2009, 47, 3875-3880.	3.9	103
34	Intact Flagellar Motor Architecture Revealed by Cryo-Electron Tomography. Biophysical Journal, 2009, 96, 412a.	0.5	0
35	Comparison of the Spirochete Borrelia burgdorferi S. L. Isolated From the Tick Ixodes scapularis in Southeastern and Northeastern United States. Journal of Parasitology, 2008, 94, 1351-1356.	0.7	15
36	â€˜Candidatus Borrelia texasensisâ€™, from the American dog tick Dermacentor variabilis. International Journal of Systematic and Evolutionary Microbiology, 2005, 55, 685-693.	1.7	34

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37	MOLECULAR CHARACTERIZATION OF BORRELIA ISOLATES FROM TICKS AND MAMMALS FROM THE SOUTHERN UNITED STATES. Journal of Parasitology, 2004, 90, 1298-1307.	0.7	21
38	Differentiation of group VIII Spiroplasma strains with sequences of the 16Sâ€“23S rDNA intergenic spacer region. Canadian Journal of Microbiology, 2004, 50, 1061-1067.	1.7	18
39	Comparative analysis ofBorreliaisolates from southeastern USA based on randomly amplified polymorphic DNA fingerprint and 16S ribosomal gene sequence analyses. FEMS Microbiology Letters, 2003, 228, 249-257.	1.8	21
40	An enzootic transmission cycle of Lyme borreliosis spirochetes in the southeastern United States. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11642-11645.	7.1	121
41	Genetic Diversity of the Outer Surface Protein C Gene of Southern Borrelia Isolates and Its Possible Epidemiological, Clinical, and Pathogenetic Implications. Journal of Clinical Microbiology, 2002, 40, 2572-2583.	3.9	52
42	Genetic Heterogeneity of Borrelia burgdorferi Sensu Lato in the Southern United States Based on Restriction Fragment Length Polymorphism and Sequence Analysis. Journal of Clinical Microbiology, 2001, 39, 2500-2507.	3.9	90