

# Tao Lin

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Intact Flagellar Motor of <i>Borrelia burgdorferi</i> Revealed by Cryo-Electron Tomography: Evidence for Stator Ring Curvature and Rotor/C-Ring Assembly Flexion. <i>Journal of Bacteriology</i> , 2009, 191, 5026-5036.	2.2	147
2	Analysis of an Ordered, Comprehensive STM Mutant Library in Infectious <i>Borrelia burgdorferi</i> : Insights into the Genes Required for Mouse Infectivity. <i>PLoS ONE</i> , 2012, 7, e47532.	2.5	127
3	MLL4 Is Required to Maintain Broad H3K4me3 Peaks and Super-Enhancers at Tumor Suppressor Genes. <i>Molecular Cell</i> , 2018, 70, 825-841.e6.	9.7	123
4	An enzootic transmission cycle of Lyme borreliosis spirochetes in the southeastern United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 11642-11645.	7.1	121
5	Delineation of a New Species of the <i>Borrelia burgdorferi</i> Sensu Lato Complex, <i>Borrelia americana</i> sp. nov. <i>Journal of Clinical Microbiology</i> , 2009, 47, 3875-3880.	3.9	103
6	Genetic Heterogeneity of <i>Borrelia burgdorferi</i> Sensu Lato in the Southern United States Based on Restriction Fragment Length Polymorphism and Sequence Analysis. <i>Journal of Clinical Microbiology</i> , 2001, 39, 2500-2507.	3.9	90
7	Molecular layer interneurons shape the spike activity of cerebellar Purkinje cells. <i>Scientific Reports</i> , 2019, 9, 1742.	3.3	80
8	ATXN1-CIC Complex Is the Primary Driver of Cerebellar Pathology in Spinocerebellar Ataxia Type 1 through a Gain-of-Function Mechanism. <i>Neuron</i> , 2018, 97, 1235-1243.e5.	8.1	79
9	Role of Acetyl-Phosphate in Activation of the Rrp2-RpoN-RpoS Pathway in <i>Borrelia burgdorferi</i> . <i>PLoS Pathogens</i> , 2010, 6, e1001104.	4.7	78
10	In vivo analysis of Purkinje cell firing properties during postnatal mouse development. <i>Journal of Neurophysiology</i> , 2015, 113, 578-591.	1.8	78
11	Central Role of the Holliday Junction Helicase RuvAB in <i>vlsE</i> Recombination and Infectivity of <i>Borrelia burgdorferi</i> . <i>PLoS Pathogens</i> , 2009, 5, e1000679.	4.7	68
12	Understanding Barriers to <i>Borrelia burgdorferi</i> Dissemination during Infection Using Massively Parallel Sequencing. <i>Infection and Immunity</i> , 2013, 81, 2347-2357.	2.2	58
13	Purkinje cell misfiring generates high-amplitude action tremors that are corrected by cerebellar deep brain stimulation. <i>eLife</i> , 2020, 9, .	6.0	57
14	Genetic Diversity of the Outer Surface Protein C Gene of Southern <i>Borrelia</i> Isolates and Its Possible Epidemiological, Clinical, and Pathogenetic Implications. <i>Journal of Clinical Microbiology</i> , 2002, 40, 2572-2583.	3.9	52
15	Transposon mutagenesis as an approach to improved understanding of <i>Borrelia</i> pathogenesis and biology. <i>Frontiers in Cellular and Infection Microbiology</i> , 2014, 4, 63.	3.9	47
16	Global Tn-seq analysis of carbohydrate utilization and vertebrate infectivity of <i>Borrelia burgdorferi</i> . <i>Molecular Microbiology</i> , 2016, 101, 1003-1023.	2.5	47
17	Neuromodulation of the cerebellum rescues movement in a mouse model of ataxia. <i>Nature Communications</i> , 2021, 12, 1295.	12.8	44
18	A high-throughput genetic screen identifies previously uncharacterized <i>Borrelia burgdorferi</i> genes important for resistance against reactive oxygen and nitrogen species. <i>PLoS Pathogens</i> , 2017, 13, e1006225.	4.7	36

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19	â€ˆCandidatus <i>Borrelia texasensis</i> â€™™, from the American dog tick <i>Dermacentor variabilis</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2005, 55, 685-693.	1.7	34
20	Mutations in the <i>Borrelia burgdorferi</i> Flagellar Type III Secretion System Genes <i>fliH</i> and <i>fliI</i> Profoundly Affect Spirochete Flagellar Assembly, Morphology, Motility, Structure, and Cell Division. <i>MBio</i> , 2015, 6, e00579-15.	4.1	32
21	Phosphoenolpyruvate Phosphotransferase System Components Modulate Gene Transcription and Virulence of <i>Borrelia burgdorferi</i> . <i>Infection and Immunity</i> , 2016, 84, 754-764.	2.2	31
22	High-Throughput Plasmid Content Analysis of <i>Borrelia burgdorferi</i> B31 by Using Luminex Multiplex Technology. <i>Applied and Environmental Microbiology</i> , 2011, 77, 1483-1492.	3.1	29
23	Maturation of Purkinje cell firing properties relies on neurogenesis of excitatory neurons. <i>ELife</i> , 2021, 10, .	6.0	28
24	An optimized surgical approach for obtaining stable extracellular single-unit recordings from the cerebellum of head-fixed behaving mice. <i>Journal of Neuroscience Methods</i> , 2016, 262, 21-31.	2.5	27
25	The Nucleotide Excision Repair Pathway Protects <i>Borrelia burgdorferi</i> from Nitrosative Stress in <i>Ixodes scapularis</i> Ticks. <i>Frontiers in Microbiology</i> , 2016, 7, 1397.	3.5	26
26	Function of the <i>Borrelia burgdorferi</i> FtsH Homolog Is Essential for Viability both <i>In Vitro</i> and <i>In Vivo</i> and Independent of HflK/C. <i>MBio</i> , 2016, 7, e00404-16.	4.1	26
27	Genome-wide screen identifies novel genes required for <i>Borrelia burgdorferi</i> survival in its <i>Ixodes</i> tick vector. <i>PLoS Pathogens</i> , 2019, 15, e1007644.	4.7	25
28	Purkinje cell neurotransmission patterns cerebellar basket cells into zonal modules defined by distinct pinceau sizes. <i>ELife</i> , 2020, 9, .	6.0	25
29	Comparative analysis of <i>Borrelia</i> isolates from southeastern USA based on randomly amplified polymorphic DNA fingerprint and 16S ribosomal gene sequence analyses. <i>FEMS Microbiology Letters</i> , 2003, 228, 249-257.	1.8	21
30	MOLECULAR CHARACTERIZATION OF BORRELIA ISOLATES FROM TICKS AND MAMMALS FROM THE SOUTHERN UNITED STATES. <i>Journal of Parasitology</i> , 2004, 90, 1298-1307.	0.7	21
31	Cryo-electron tomography of periplasmic flagella in <i>Borrelia burgdorferi</i> reveals a distinct cytoplasmic ATPase complex. <i>PLoS Biology</i> , 2018, 16, e3000050.	5.6	21
32	The <i>Borrelia burgdorferi</i> Glycosaminoglycan Binding Protein Bgp in the B31 Strain Is Not Essential for Infectivity despite Facilitating Adherence and Tissue Colonization. <i>Infection and Immunity</i> , 2018, 86, .	2.2	20
33	Differentiation of group VIII <i>Spiroplasma</i> strains with sequences of the 16Sâ€™23S rDNA intergenic spacer region. <i>Canadian Journal of Microbiology</i> , 2004, 50, 1061-1067.	1.7	18
34	Comparison of the Spirochete <i>Borrelia burgdorferi</i> S. L. Isolated From the Tick <i>Ixodes scapularis</i> in Southeastern and Northeastern United States. <i>Journal of Parasitology</i> , 2008, 94, 1351-1356.	0.7	15
35	The intergenic small non-coding RNA <i>ittA</i> is required for optimal infectivity and tissue tropism in <i>Borrelia burgdorferi</i> . <i>PLoS Pathogens</i> , 2020, 16, e1008423.	4.7	13
36	Ankyrin-R Links Kv3.3 to the Spectrin Cytoskeleton and Is Required for Purkinje Neuron Survival. <i>Journal of Neuroscience</i> , 2022, 42, 2-15.	3.6	13

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37	Out of the Woods: the Remarkable Genomes of the Genus <i>Borrelia</i> . <i>Journal of Bacteriology</i> , 2011, 193, 6812-6814.	2.2	5
38	Genome-Wide Mutagenesis in <i>Borrelia burgdorferi</i> . <i>Methods in Molecular Biology</i> , 2018, 1690, 201-223.	0.9	5
39	Structural analysis of CACHE domain of the McpA chemoreceptor from <i>Leptospira interrogans</i> . <i>Biochemical and Biophysical Research Communications</i> , 2020, 533, 1323-1329.	2.1	2
40	BBB07 contributes to, but is not essential for, <i>Borrelia burgdorferi</i> infection in mice. <i>Microbiology (United Kingdom)</i> , 2020, 166, 988-994.	1.8	2
41	Structure and analysis of nucleoside diphosphate kinase from <i>Borrelia burgdorferi</i> prepared in a transition-state complex with ADP and vanadate moieties. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2018, 74, 373-384.	0.8	1
42	Intact Flagellar Motor Architecture Revealed by Cryo-Electron Tomography. <i>Biophysical Journal</i> , 2009, 96, 412a.	0.5	0