

# Steven James Norris

## List of Publications by Citations

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8,406  
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#	Paper	IF	Citations
131	Complete genome sequence of <i>Treponema pallidum</i> , the syphilis spirochete. <i>Science</i> , <b>1998</b> , 281, 375-88	33.3	756
130	Antigenic variation in Lyme disease borreliae by promiscuous recombination of VMP-like sequence cassettes. <i>Cell</i> , <b>1997</b> , 89, 275-85	56.2	530
129	Correlation between plasmid content and infectivity in <i>Borrelia burgdorferi</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2000</b> , 97, 13865-70	11.5	376
128	A plasmid-encoded nicotinamidase (PncA) is essential for infectivity of <i>Borrelia burgdorferi</i> in a mammalian host. <i>Molecular Microbiology</i> , <b>2003</b> , 48, 753-64	4.1	218
127	Comparison of the genome of the oral pathogen <i>Treponema denticola</i> with other spirochete genomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 5646-51	11.5	215
126	Genetic variation of the <i>Borrelia burgdorferi</i> gene <i>vlsE</i> involves cassette-specific, segmental gene conversion. <i>Infection and Immunity</i> , <b>1998</b> , 66, 3698-704	3.7	185
125	Disruption of the genes encoding antigen 85A and antigen 85B of <i>Mycobacterium tuberculosis</i> H37Rv: effect on growth in culture and in macrophages. <i>Infection and Immunity</i> , <b>2000</b> , 68, 767-78	3.7	175
124	Adherence of <i>Borrelia burgdorferi</i> to the proteoglycan decorin. <i>Infection and Immunity</i> , <b>1995</b> , 63, 3467-73	3.7	175
123	Low-passage-associated proteins of <i>Borrelia burgdorferi</i> B31: characterization and molecular cloning of OspD, a surface-exposed, plasmid-encoded lipoprotein. <i>Infection and Immunity</i> , <b>1992</b> , 60, 4662-72	2.72	173
122	Kinetics and in vivo induction of genetic variation of <i>vlsE</i> in <i>Borrelia burgdorferi</i> . <i>Infection and Immunity</i> , <b>1998</b> , 66, 3689-97	3.7	146
121	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> , <b>2009</b> , 191, 5026-36	3.5	132
120	BBE02 disruption mutants of <i>Borrelia burgdorferi</i> B31 have a highly transformable, infectious phenotype. <i>Infection and Immunity</i> , <b>2004</b> , 72, 7147-54	3.7	132
119	Human antibody responses to VlsE antigenic variation protein of <i>Borrelia burgdorferi</i> . <i>Journal of Clinical Microbiology</i> , <b>1999</b> , 37, 3997-4004	9.7	106
118	Crystal structure of Lyme disease variable surface antigen VlsE of <i>Borrelia burgdorferi</i> . <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 21691-6	5.4	104
117	High- and low-infectivity phenotypes of clonal populations of in vitro-cultured <i>Borrelia burgdorferi</i> . <i>Infection and Immunity</i> , <b>1995</b> , 63, 2206-12	3.7	103
116	Molecular architecture of the bacterial flagellar motor in cells. <i>Biochemistry</i> , <b>2014</b> , 53, 4323-33	3.2	93
115	Characterization of a manganese-dependent regulatory protein, TroR, from <i>Treponema pallidum</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1999</b> , 96, 10887-92	11.5	93

114	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> , <b>2012</b> , 7, e47532	3.7	91
113	Cellular architecture of <i>Treponema pallidum</i> : novel flagellum, periplasmic cone, and cell envelope as revealed by cryo electron tomography. <i>Journal of Molecular Biology</i> , <b>2010</b> , 403, 546-61	6.5	90
112	Purification of <i>Treponema pallidum</i> , Nichols strain, by Percoll density gradient centrifugation. <i>Sexually Transmitted Diseases</i> , <b>1984</b> , 11, 275-86	2.4	87
111	Detailed analysis of sequence changes occurring during vlsE antigenic variation in the mouse model of <i>Borrelia burgdorferi</i> infection. <i>PLoS Pathogens</i> , <b>2009</b> , 5, e1000293	7.6	86
110	Whole genome sequences of three <i>Treponema pallidum</i> ssp. <i>pertenue</i> strains: yaws and syphilis treponemes differ in less than 0.2% of the genome sequence. <i>PLoS Neglected Tropical Diseases</i> , <b>2012</b> , 6, e1471	4.8	86
109	A novel <i>Treponema pallidum</i> antigen, TP0136, is an outer membrane protein that binds human fibronectin. <i>Infection and Immunity</i> , <b>2008</b> , 76, 1848-57	3.7	83
108	Origin of modern syphilis and emergence of a pandemic <i>Treponema pallidum</i> cluster. <i>Nature Microbiology</i> , <b>2016</b> , 2, 16245	26.6	81
107	Antigenic variation with a twist--the <i>Borrelia</i> story. <i>Molecular Microbiology</i> , <b>2006</b> , 60, 1319-22	4.1	80
106	Decreased electroporation efficiency in <i>Borrelia burgdorferi</i> containing linear plasmids lp25 and lp56: impact on transformation of infectious <i>B. burgdorferi</i> . <i>Infection and Immunity</i> , <b>2002</b> , 70, 4798-804	3.7	79
105	Long-Term Culture of the Syphilis Spirochete subsp.. <i>MBio</i> , <b>2018</b> , 9,	7.8	79
104	Cryoelectron tomography reveals the sequential assembly of bacterial flagella in <i>Borrelia burgdorferi</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 14390-5	11.5	77
103	Genetic diversity in <i>Treponema pallidum</i> : implications for pathogenesis, evolution and molecular diagnostics of syphilis and yaws. <i>Infection, Genetics and Evolution</i> , <b>2012</b> , 12, 191-202	4.5	76
102	A family of surface-exposed proteins of 20 kilodaltons in the genus <i>Borrelia</i> . <i>Infection and Immunity</i> , <b>1994</b> , 62, 2792-9	3.7	76
101	Role of acetyl-phosphate in activation of the Rrp2-RpoN-RpoS pathway in <i>Borrelia burgdorferi</i> . <i>PLoS Pathogens</i> , <b>2010</b> , 6, e1001104	7.6	75
100	Toxin synthesis by <i>Clostridium difficile</i> is regulated through quorum signaling. <i>MBio</i> , <b>2015</b> , 6, e02569	7.8	74
99	Analysis of <i>Borrelia burgdorferi</i> vlsE gene expression and recombination in the tick vector. <i>Infection and Immunity</i> , <b>2001</b> , 69, 7083-90	3.7	74
98	Antigenic relatedness and N-terminal sequence homology define two classes of periplasmic flagellar proteins of <i>Treponema pallidum</i> subsp. <i>pallidum</i> and <i>Treponema phagedenis</i> . <i>Journal of Bacteriology</i> , <b>1988</b> , 170, 4072-82	3.5	70
97	Modulation of immunity to <i>Borrelia burgdorferi</i> by ultraviolet irradiation: differential effect on Th1 and Th2 immune responses. <i>European Journal of Immunology</i> , <b>1995</b> , 25, 3017-22	6.1	67

96	Identity of <i>Treponema pallidum</i> subsp. <i>pallidum</i> polypeptides: Correlation of sodium dodecyl sulfate-polyacrylamide gel electrophoresis results from different laboratories. <i>Electrophoresis</i> , <b>1987</b> , 8, 77-92	3.6	66
95	Linear and circular plasmid content in <i>Borrelia burgdorferi</i> clinical isolates. <i>Infection and Immunity</i> , <b>2003</b> , 71, 3699-706	3.7	65
94	vls Antigenic Variation Systems of Lyme Disease <i>Borrelia</i> : Eluding Host Immunity through both Random, Segmental Gene Conversion and Framework Heterogeneity. <i>Microbiology Spectrum</i> , <b>2014</b> , 2,	8.9	63
93	Central role of the Holliday junction helicase RuvAB in vlsE recombination and infectivity of <i>Borrelia burgdorferi</i> . <i>PLoS Pathogens</i> , <b>2009</b> , 5, e1000679	7.6	63
92	Effects of vlsE complementation on the infectivity of <i>Borrelia burgdorferi</i> lacking the linear plasmid lp28-1. <i>Infection and Immunity</i> , <b>2004</b> , 72, 6577-85	3.7	63
91	Identification and transcriptional analysis of a <i>Treponema pallidum</i> operon encoding a putative ABC transport system, an iron-activated repressor protein homolog, and a glycolytic pathway enzyme homolog. <i>Gene</i> , <b>1997</b> , 197, 47-64	3.8	62
90	Relationship of <i>Treponema denticola</i> periplasmic flagella to irregular cell morphology. <i>Journal of Bacteriology</i> , <b>1997</b> , 179, 1628-35	3.5	61
89	Transcriptome of <i>Treponema pallidum</i> : gene expression profile during experimental rabbit infection. <i>Journal of Bacteriology</i> , <b>2005</b> , 187, 1866-74	3.5	57
88	Conversion of a linear to a circular plasmid in the relapsing fever agent <i>Borrelia hermsii</i> . <i>Journal of Bacteriology</i> , <b>1996</b> , 178, 793-800	3.5	57
87	Complete genome sequence of <i>Treponema pallidum</i> ssp. <i>pallidum</i> strain SS14 determined with oligonucleotide arrays. <i>BMC Microbiology</i> , <b>2008</b> , 8, 76	4.5	55
86	Understanding barriers to <i>Borrelia burgdorferi</i> dissemination during infection using massively parallel sequencing. <i>Infection and Immunity</i> , <b>2013</b> , 81, 2347-57	3.7	52
85	Genome scale identification of <i>Treponema pallidum</i> antigens. <i>Infection and Immunity</i> , <b>2005</b> , 73, 4445-50	3.7	52
84	Complete genome sequence of <i>Treponema paraluis-cuniculi</i> , strain Cuniculi A: the loss of infectivity to humans is associated with genome decay. <i>PLoS ONE</i> , <b>2011</b> , 6, e20415	3.7	51
83	Reactivity of antibodies from syphilis patients to a protein array representing the <i>Treponema pallidum</i> proteome. <i>Journal of Clinical Microbiology</i> , <b>2006</b> , 44, 888-91	9.7	50
82	Genome analysis of <i>Treponema pallidum</i> subsp. <i>pallidum</i> and subsp. <i>pertenue</i> strains: most of the genetic differences are localized in six regions. <i>PLoS ONE</i> , <b>2010</b> , 5, e15713	3.7	48
81	Biology of <i>Treponema pallidum</i> : correlation of functional activities with genome sequence data. <i>Journal of Molecular Microbiology and Biotechnology</i> , <b>2001</b> , 3, 37-62	0.9	48
80	A mutant of <i>Mycobacterium tuberculosis</i> H37Rv that lacks expression of antigen 85A is attenuated in mice but retains vaccino-genic potential. <i>Infection and Immunity</i> , <b>2004</b> , 72, 7084-95	3.7	46
79	Effect of complement component C3 deficiency on experimental Lyme borreliosis in mice. <i>Infection and Immunity</i> , <b>2003</b> , 71, 4432-40	3.7	46

78	The genome of <i>Treponema pallidum</i> : new light on the agent of syphilis. <i>FEMS Microbiology Reviews</i> , <b>1998</b> , 22, 323-32	15.1	43
77	Mycobacterial protein HbA binds human complement component C3. <i>Infection and Immunity</i> , <b>2001</b> , 69, 7501-11	3.7	43
76	In vitro cultivation of <i>Treponema pallidum</i> : independent confirmation. <i>Infection and Immunity</i> , <b>1982</b> , 36, 437-9	3.7	42
75	Transcriptional regulation of the <i>Borrelia burgdorferi</i> antigenically variable VlsE surface protein. <i>Journal of Bacteriology</i> , <b>2006</b> , 188, 4879-89	3.5	41
74	Comparative reactivity of human sera to recombinant VlsE and other <i>Borrelia burgdorferi</i> antigens in class-specific enzyme-linked immunosorbent assays for Lyme borreliosis. <i>Journal of Medical Microbiology</i> , <b>2002</b> , 51, 649-655	3.2	40
73	Characterization and serologic analysis of the <i>Treponema pallidum</i> proteome. <i>Infection and Immunity</i> , <b>2010</b> , 78, 2631-43	3.7	39
72	Identification of potential virulence determinants by Himar1 transposition of infectious <i>Borrelia burgdorferi</i> B31. <i>Infection and Immunity</i> , <b>2006</b> , 74, 6690-9	3.7	39
71	Systematic cloning of <i>Treponema pallidum</i> open reading frames for protein expression and antigen discovery. <i>Genome Research</i> , <b>2003</b> , 13, 1665-74	9.7	38
70	Genome differences between <i>Treponema pallidum</i> subsp. <i>pallidum</i> strain Nichols and <i>T. paraluisuniculi</i> strain Cuniculi A. <i>Infection and Immunity</i> , <b>2007</b> , 75, 5859-66	3.7	36
69	Extensive interplasmidic duplications change the virulence phenotype of the relapsing fever agent <i>Borrelia turicatae</i> . <i>Molecular Microbiology</i> , <b>1999</b> , 34, 1120-32	4.1	35
68	Molecular mechanism for rotational switching of the bacterial flagellar motor. <i>Nature Structural and Molecular Biology</i> , <b>2020</b> , 27, 1041-1047	17.6	34
67	Global Tn-seq analysis of carbohydrate utilization and vertebrate infectivity of <i>Borrelia burgdorferi</i> . <i>Molecular Microbiology</i> , <b>2016</b> , 101, 1003-23	4.1	33
66	Characterization of the vls antigenic variation loci of the Lyme disease spirochaetes <i>Borrelia garinii</i> lp90 and <i>Borrelia afzelii</i> ACAI. <i>Molecular Microbiology</i> , <b>2003</b> , 47, 1407-17	4.1	31
65	Conservation and heterogeneity of vlsE among human and tick isolates of <i>Borrelia burgdorferi</i> . <i>Infection and Immunity</i> , <b>2000</b> , 68, 1714-8	3.7	29
64	Physical map of the genome of <i>Treponema pallidum</i> subsp. <i>pallidum</i> (Nichols). <i>Journal of Bacteriology</i> , <b>1995</b> , 177, 1797-804	3.5	29
63	Molecular studies in <i>Treponema pallidum</i> evolution: toward clarity?. <i>PLoS Neglected Tropical Diseases</i> , <b>2008</b> , 2, e184	4.8	28
62	Mutations in the <i>Borrelia burgdorferi</i> Flagellar Type III Secretion System Genes fliH and fliI Profoundly Affect Spirochete Flagellar Assembly, Morphology, Motility, Structure, and Cell Division. <i>MBio</i> , <b>2015</b> , 6, e00579-15	7.8	27
61	Transposon mutagenesis as an approach to improved understanding of <i>Borrelia</i> pathogenesis and biology. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2014</b> , 4, 63	5.9	27

60	Structural insights into flagellar stator-rotor interactions. <i>ELife</i> , <b>2019</b> , 8,	8.9	27
59	High-throughput plasmid content analysis of <i>Borrelia burgdorferi</i> B31 by using Luminex multiplex technology. <i>Applied and Environmental Microbiology</i> , <b>2011</b> , 77, 1483-92	4.8	26
58	Decreased infectivity despite unaltered C3 binding by a DeltahbA mutant of <i>Mycobacterium tuberculosis</i> . <i>Infection and Immunity</i> , <b>2002</b> , 70, 6751-60	3.7	26
57	From microbial genome sequence to applications. <i>Research in Microbiology</i> , <b>2000</b> , 151, 151-8	4	26
56	Phosphoenolpyruvate Phosphotransferase System Components Modulate Gene Transcription and Virulence of <i>Borrelia burgdorferi</i> . <i>Infection and Immunity</i> , <b>2015</b> , 84, 754-64	3.7	24
55	Characterization of the cytoplasmic filament protein gene (cfpA) of <i>Treponema pallidum</i> subsp. <i>pallidum</i> . <i>Journal of Bacteriology</i> , <b>1996</b> , 178, 3177-87	3.5	24
54	Genome structure of spirochetes. <i>Research in Microbiology</i> , <b>1992</b> , 143, 615-21	4	24
53	In vitro culture system to determine MICs and MBCs of antimicrobial agents against <i>Treponema pallidum</i> subsp. <i>pallidum</i> (Nichols strain). <i>Antimicrobial Agents and Chemotherapy</i> , <b>1988</b> , 32, 68-74	5.9	24
52	Influence of oxygen tension, sulfhydryl compounds, and serum on the motility and virulence of <i>Treponema pallidum</i> (Nichols strain) in a cell-free system. <i>Infection and Immunity</i> , <b>1978</b> , 22, 689-97	3.7	23
51	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> , <b>2017</b> , 13, e1006225	7.6	23
50	BAC library of <i>T. pallidum</i> DNA in <i>E. coli</i> . <i>Genome Research</i> , <b>2002</b> , 12, 515-22	9.7	21
49	Function of the <i>Borrelia burgdorferi</i> FtSH Homolog Is Essential for Viability both In Vitro and In Vivo and Independent of HflK/C. <i>MBio</i> , <b>2016</b> , 7, e00404-16	7.8	21
48	Antigenicity and recombination of VlsE, the antigenic variation protein of <i>Borrelia burgdorferi</i> , in rabbits, a host putatively resistant to long-term infection with this spirochete. <i>FEMS Immunology and Medical Microbiology</i> , <b>2007</b> , 50, 421-9		20
47	Isolation and characterization of a <i>Treponema pallidum</i> major 60-kilodalton protein resembling the groEL protein of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , <b>1990</b> , 172, 2862-70	3.5	20
46	The Nucleotide Excision Repair Pathway Protects <i>Borrelia burgdorferi</i> from Nitrosative Stress in <i>Ixodes scapularis</i> Ticks. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 1397	5.7	19
45	The Microaerophilic Nature of <i>Treponema pallidum</i> . <i>Sexually Transmitted Diseases</i> , <b>1982</b> , 9, 1-8	2.4	18
44	Peaceful coexistence amongst <i>Borrelia</i> plasmids: getting by with a little help from their friends?. <i>Plasmid</i> , <b>2013</b> , 70, 161-7	3.3	17
43	Genome-wide screen identifies novel genes required for <i>Borrelia burgdorferi</i> survival in its <i>Ixodes</i> tick vector. <i>PLoS Pathogens</i> , <b>2019</b> , 15, e1007644	7.6	16

42	Infectivity of the highly transformable BBE02- lp56- mutant of <i>Borrelia burgdorferi</i> , the Lyme disease spirochete, via ticks. <i>Infection and Immunity</i> , <b>2006</b> , 74, 3678-81	3.7	16
41	Cryo-electron tomography of periplasmic flagella in <i>Borrelia burgdorferi</i> reveals a distinct cytoplasmic ATPase complex. <i>PLoS Biology</i> , <b>2018</b> , 16, e3000050	9.7	16
40	Interaction of spirochetes with the host. <i>Research in Microbiology</i> , <b>1992</b> , 143, 629-39	4	15
39	A Retrospective Study on Genetic Heterogeneity within <i>Treponema</i> Strains: Subpopulations Are Genetically Distinct in a Limited Number of Positions. <i>PLoS Neglected Tropical Diseases</i> , <b>2015</b> , 9, e0004110	4.8	15
38	Serum antibodies to <i>Borrelia burgdorferi</i> , <i>Anaplasma phagocytophilum</i> , and <i>Babesia microti</i> in recaptured white-footed mice. <i>Journal of Wildlife Diseases</i> , <b>2013</b> , 49, 294-302	1.3	14
37	Analysis of the intergenic sequences provided by Feria-Arroyo et al. does not support the claim of high <i>Borrelia burgdorferi</i> tick infection rates in Texas and northeastern Mexico. <i>Parasites and Vectors</i> , <b>2014</b> , 7, 467	4	12
36	Specific Th1 cell lines that confer protective immunity against experimental <i>Borrelia burgdorferi</i> infection in mice. <i>Journal of Leukocyte Biology</i> , <b>1998</b> , 63, 542-9	6.5	12
35	Serum requirement for the multiplication of <i>Treponema pallidum</i> in a tissue-culture system: association of growth-promoting activity with the protein fraction. <i>Sexually Transmitted Diseases</i> , <b>1986</b> , 13, 207-13	2.4	12
34	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> , <b>2018</b> , 86,	3.7	12
33	The genome sequence of <i>Treponema pallidum</i> , the syphilis spirochete: will clinicians benefit?. <i>Current Opinion in Infectious Diseases</i> , <b>2000</b> , 13, 29-36	5.4	11
32	Lyme Disease Pathogenesis. <i>Current Issues in Molecular Biology</i> , <b>2021</b> , 42, 473-518	2.9	11
31	Enhanced Protective Immunogenicity of Homodimeric <i>Borrelia burgdorferi</i> Outer Surface Protein C. <i>Vaccine Journal</i> , <b>2017</b> , 24,		10
30	The dynamic proteome of Lyme disease <i>Borrelia</i> . <i>Genome Biology</i> , <b>2006</b> , 7, 209	18.3	10
29	Long-term incorporation of tritiated adenine into deoxyribonucleic acid and ribonucleic acid by <i>Treponema pallidum</i> (Nichols strain). <i>Infection and Immunity</i> , <b>1980</b> , 29, 1040-9	3.7	10
28	The thermophilic, homohexameric aminopeptidase of <i>Borrelia burgdorferi</i> is a member of the M29 family of metallopeptidases. <i>Infection and Immunity</i> , <b>2005</b> , 73, 2253-61	3.7	9
27	The intergenic small non-coding RNA itta is required for optimal infectivity and tissue tropism in <i>Borrelia burgdorferi</i> . <i>PLoS Pathogens</i> , <b>2020</b> , 16, e1008423	7.6	8
26	The Genus <i>Treponema</i> <b>2006</b> , 211-234		8
25	How do lyme borrelia organisms cause disease? The quest for virulence determinants(). <i>The Open Neurology Journal</i> , <b>2012</b> , 6, 119-23	0.4	7

24	In Vitro Cultivation of the Syphilis Spirochete <i>Treponema pallidum</i> . <i>Current Protocols</i> , <b>2021</b> , 1, e44		7
23	Hiding in Plain Sight: Colonic Spirochetosis in Humans. <i>Journal of Bacteriology</i> , <b>2019</b> , 201,	3.5	6
22	Response to Esteve-Gassent et al.: flaB sequences obtained from Texas PCR products are identical to the positive control strain <i>Borrelia burgdorferi</i> B31. <i>Parasites and Vectors</i> , <b>2015</b> , 8, 310	4	6
21	<i>Treponema</i> <b>2015</b> , 1-42		5
20	Out of the woods: the remarkable genomes of the genus <i>Borrelia</i> . <i>Journal of Bacteriology</i> , <b>2011</b> , 193, 6812-4	3.5	5
19	Isolated pontine progressive multifocal leukoencephalopathy: unusual magnetic resonance imaging features. <i>Journal of Neuroimaging</i> , <b>2002</b> , 12, 63-6	2.8	5
18	Parameters Affecting Continuous Culture of <i>Treponema pallidum</i> Strains. <i>MBio</i> , <b>2021</b> , 12,	7.8	5
17	Illuminating the agent of syphilis: the <i>Treponema pallidum</i> genome project. <i>Electrophoresis</i> , <b>1998</b> , 19, 551-3	3.6	4
16	A selective antibiotic for Lyme disease. <i>Cell</i> , <b>2021</b> , 184, 5405-5418.e16	56.2	4
15	YebC regulates variable surface antigen VlsE expression and is required for host immune evasion in <i>Borrelia burgdorferi</i> . <i>PLoS Pathogens</i> , <b>2020</b> , 16, e1008953	7.6	4
14	The Genus <i>Treponema</i> <b>1992</b> , 3537-3559		4
13	OptiSol Corneal Storage Medium and Transmission of <i>Treponema Pallidum</i> . <i>Cornea</i> , <b>1995</b> , 14, 595-603	3.1	3
12	Demonstration of <i>Treponema pallidum</i> in a cutaneous gumma by indirect immunofluorescence. <i>Archives of Dermatology</i> , <b>1983</b> , 119, 677-680		3
11	Susceptibility of <i>Treponema pallidum</i> subsp. to Doxycycline. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2020</b> , 64,	5.9	3
10	vls Antigenic Variation Systems of Lyme Disease <i>Borrelia</i> : Eluding Host Immunity through both Random, Segmental Gene Conversion and Framework Heterogeneity <b>2015</b> , 471-489		2
9	Serum antibodies to whole-cell and recombinant antigens of <i>Borrelia burgdorferi</i> in cottontail rabbits. <i>Journal of Wildlife Diseases</i> , <b>2012</b> , 48, 12-20	1.3	2
8	Construction of small genome BAC library for functional and genomic applications. <i>Methods in Molecular Biology</i> , <b>2004</b> , 255, 47-56	1.4	1
7	Molecular Mechanism for Rotational Switching of the Bacterial Flagellar Motor		1



6	Origin of modern syphilis and emergence of a contemporary pandemic cluster		1
5	BBB07 contributes to, but is not essential for, infection in mice. <i>Microbiology (United Kingdom)</i> , <b>2020</b> , 166, 988-994	2.9	0
4	Comparison of transcriptional profiles of <i>Treponema pallidum</i> during experimental infection of rabbits and in vitro culture: Highly similar, yet different. <i>PLoS Pathogens</i> , <b>2021</b> , 17, e1009949	7.6	0
3	Catching up with Lyme Disease Antigenic Variation Computationally. <i>Trends in Microbiology</i> , <b>2018</b> , 26, 644-645	12.4	
2	Kinetics and In Vivo Induction of Genetic Variation of vlsE in <i>Borrelia burgdorferi</i> . <i>Infection and Immunity</i> , <b>1999</b> , 67, 468-468	3.7	
1	Comparative Pathogenomics of Spirochetes	141-159	