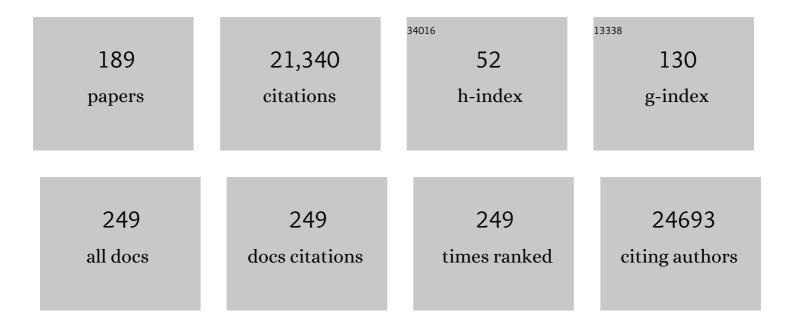
Claus O Wilke

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Welcome to the Tidyverse. Journal of Open Source Software, 2019, 4, 1686.	2.0	9,245
2	Mistranslation-Induced Protein Misfolding as a Dominant Constraint on Coding-Sequence Evolution. Cell, 2008, 134, 341-352.	13.5	949
3	Why highly expressed proteins evolve slowly. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14338-14343.	3.3	738
4	Evolution of digital organisms at high mutation rates leads to survival of the flattest. Nature, 2001, 412, 331-333.	13.7	548
5	The evolutionary consequences of erroneous protein synthesis. Nature Reviews Genetics, 2009, 10, 715-724.	7.7	437
6	Residual Human Immunodeficiency Virus Type 1 Viremia in Some Patients on Antiretroviral Therapy Is Dominated by a Small Number of Invariant Clones Rarely Found in Circulating CD4 + T Cells. Journal of Virology, 2006, 80, 6441-6457.	1.5	377
7	A Single Determinant Dominates the Rate of Yeast Protein Evolution. Molecular Biology and Evolution, 2006, 23, 327-337.	3.5	373
8	Systematic humanization of yeast genes reveals conserved functions and genetic modularity. Science, 2015, 348, 921-925.	6.0	361
9	Maximum Allowed Solvent Accessibilites of Residues in Proteins. PLoS ONE, 2013, 8, e80635.	1.1	340
10	Thermodynamic prediction of protein neutrality. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 606-611.	3.3	320
11	Avida: A Software Platform for Research in Computational Evolutionary Biology. Artificial Life, 2004, 10, 191-229.	1.0	280
12	A Universal Trend of Reduced mRNA Stability near the Translation-Initiation Site in Prokaryotes and Eukaryotes. PLoS Computational Biology, 2010, 6, e1000664.	1.5	266
13	Theory of Lethal Mutagenesis for Viruses. Journal of Virology, 2007, 81, 2930-2939.	1.5	250
14	Causes of evolutionary rate variation among protein sites. Nature Reviews Genetics, 2016, 17, 109-121.	7.7	247
15	Quasispecies theory in the context of population genetics. BMC Evolutionary Biology, 2005, 5, 44.	3.2	234
16	Translationally Optimal Codons Associate with Structurally Sensitive Sites in Proteins. Molecular Biology and Evolution, 2009, 26, 1571-1580.	3.5	183
17	Structural Determinants of the Rate of Protein Evolution in Yeast. Molecular Biology and Evolution, 2006, 23, 1751-1761.	3.5	162
18	The traveling-wave approach to asexual evolution: Muller's ratchet and speed of adaptation. Theoretical Population Biology, 2008, 73, 24-46.	0.5	149

#	Article	IF	CITATIONS
19	Thermodynamics of Neutral Protein Evolution. Genetics, 2007, 175, 255-266.	1.2	137
20	The Speed of Adaptation in Large Asexual Populations. Genetics, 2004, 167, 2045-2053.	1.2	125
21	Analysis of Human Immunodeficiency Virus Type 1 Viremia and Provirus in Resting CD4 ⁺ T Cells Reveals a Novel Source of Residual Viremia in Patients on Antiretroviral Therapy. Journal of Virology, 2009, 83, 8470-8481.	1.5	122
22	Discovery of Next-Generation Antimicrobials through Bacterial Self-Screening of Surface-Displayed Peptide Libraries. Cell, 2018, 172, 618-628.e13.	13.5	122
23	Decay dynamics of HIV-1 depend on the inhibited stages of the viral life cycle. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4832-4837.	3.3	119
24	Evolution of mutational robustness. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2003, 522, 3-11.	0.4	116
25	The Relationship Between Relative Solvent Accessibility and Evolutionary Rate in Protein Evolution. Genetics, 2011, 188, 479-488.	1.2	116
26	BACPHLIP: predicting bacteriophage lifestyle from conserved protein domains. PeerJ, 2021, 9, e11396.	0.9	113
27	Adaptive Evolution on Neutral Networks. Bulletin of Mathematical Biology, 2001, 63, 715-730.	0.9	111
28	Adaptive Radiation from Resource Competition in Digital Organisms. Science, 2004, 305, 84-86.	6.0	110
29	The Relationship between dN/dS and Scaled Selection Coefficients. Molecular Biology and Evolution, 2015, 32, 1097-1108.	3.5	106
30	Dynamic fitness landscapes in molecular evolution. Physics Reports, 2001, 349, 395-446.	10.3	104
31	Biophysical Models of Protein Evolution: Understanding the Patterns of Evolutionary Sequence Divergence. Annual Review of Biophysics, 2017, 46, 85-103.	4.5	103
32	Interaction between directional epistasis and average mutational effects. Proceedings of the Royal Society B: Biological Sciences, 2001, 268, 1469-1474.	1.2	100
33	Stability and the Evolvability of Function in a Model Protein. Biophysical Journal, 2004, 86, 2758-2764.	0.2	95
34	On the conservative nature of intragenic recombination. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5380-5385.	3.3	95
35	Functional Sites Induce Long-Range Evolutionary Constraints in Enzymes. PLoS Biology, 2016, 14, e1002452.	2.6	94
36	Co-infection Weakens Selection Against Epistatic Mutations in RNA Viruses. Genetics, 2004, 168, 9-19.	1.2	88

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37	The biology of digital organisms. Trends in Ecology and Evolution, 2002, 17, 528-532.	4.2	86
38	Pyvolve: A Flexible Python Module for Simulating Sequences along Phylogenies. PLoS ONE, 2015, 10, e0139047.	1.1	83
39	Viral factors in influenza pandemic risk assessment. ELife, 2016, 5, .	2.8	82
40	Experiments on the role of deleterious mutations as stepping stones in adaptive evolution. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3171-8.	3.3	76
41	Density-Dependent Selection in Vesicular Stomatitis Virus. Journal of Virology, 2004, 78, 5799-5804.	1.5	75
42	SELECTION FOR FITNESS VERSUS SELECTION FOR ROBUSTNESS IN RNA SECONDARY STRUCTURE FOLDING. Evolution; International Journal of Organic Evolution, 2001, 55, 2412-2420.	1.1	73
43	The look-ahead effect of phenotypic mutations. Biology Direct, 2008, 3, 18.	1.9	73
44	Single-Cell Virology: On-Chip Investigation of Viral Infection Dynamics. Cell Reports, 2017, 21, 1692-1704.	2.9	71
45	PeptideBuilder: A simple Python library to generate model peptides. PeerJ, 2013, 1, e80.	0.9	70
46	The Stochastic Edge in Adaptive Evolution. Genetics, 2008, 179, 603-620.	1.2	68
47	Limits on Replenishment of the Resting CD4+ T Cell Reservoir for HIV in Patients on HAART. PLoS Pathogens, 2007, 3, e122.	2.1	67
48	Limitations of alignment-free tools in total RNA-seq quantification. BMC Genomics, 2018, 19, 510.	1.2	64
49	Detecting Positive and Purifying Selection at Synonymous Sites in Yeast and Worm. Molecular Biology and Evolution, 2010, 27, 1912-1922.	3.5	62
50	Bringing Molecules Back into Molecular Evolution. PLoS Computational Biology, 2012, 8, e1002572.	1.5	62
51	Compensatory mutations cause excess of antagonistic epistasis in RNA secondary structure folding. BMC Evolutionary Biology, 2003, 3, 3.	3.2	61
52	EFFECTS OF POPULATION SIZE AND MUTATION RATE ON THE EVOLUTION OF MUTATIONAL ROBUSTNESS. Evolution; International Journal of Organic Evolution, 2007, 61, 666-674.	1.1	58
53	Phenotypic mixing and hiding may contribute to memory in viral quasispecies. BMC Microbiology, 2003, 3, 11.	1.3	57
54	T Cell Dynamics and the Response to HAART in a Cohort of HIVâ€1–Infected Elite Suppressors. Clinical Infectious Diseases, 2009, 49, 1763-1766.	2.9	57

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55	Large-scale analysis of post-translational modifications in E. coli under glucose-limiting conditions. BMC Genomics, 2017, 18, 301.	1.2	55
56	Slow Fitness Recovery in a Codon-Modified Viral Genome. Molecular Biology and Evolution, 2012, 29, 2997-3004.	3.5	54
57	Socioeconomic disparities in the presentation of acute bacterial sinusitis complications in children. Laryngoscope, 2014, 124, 1700-1706.	1.1	54
58	Contact Density Affects Protein Evolutionary Rate from Bacteria to Animals. Journal of Molecular Evolution, 2008, 66, 395-404.	0.8	53
59	Low-level HIV-1 replication and the dynamics of the resting CD4+T cell reservoir for HIV-1 in the setting of HAART. BMC Infectious Diseases, 2008, 8, 2.	1.3	51
60	Population Genetics of Translational Robustness. Genetics, 2006, 173, 473-481.	1.2	50
61	Risk factors for development of chronic rhinosinusitis in patients with allergic rhinitis. International Forum of Allergy and Rhinology, 2012, 2, 370-375.	1.5	49
62	Relationship between protein thermodynamic constraints and variation of evolutionary rates among sites. Physical Biology, 2015, 12, 025002.	0.8	49
63	Integrating Sequence Variation and Protein Structure to Identify Sites under Selection. Molecular Biology and Evolution, 2013, 30, 36-44.	3.5	47
64	Molecular clock in neutral protein evolution. , 2004, 5, 25.		46
65	The E. coli molecular phenotype under different growth conditions. Scientific Reports, 2017, 7, 45303.	1.6	46
66	Sicegar: R package for sigmoidal and double-sigmoidal curve fitting. PeerJ, 2018, 6, e4251.	0.9	46
67	Viral evolution under the pressure of an adaptive immune system: Optimal mutation rates for viral escape. Complexity, 2002, 8, 28-33.	0.9	44
68	Predicting Evolutionary Site Variability from Structure in Viral Proteins: Buriedness, Packing, Flexibility, and Design. Journal of Molecular Evolution, 2014, 79, 130-142.	0.8	43
69	Signatures of protein biophysics in coding sequence evolution. Current Opinion in Structural Biology, 2010, 20, 385-389.	2.6	42
70	Sinonasal anatomic variants and asthma are associated with faster development of chronic rhinosinusitis in patients with allergic rhinitis. International Forum of Allergy and Rhinology, 2013, 3, 755-761.	1.5	42
71	Controlled Measurement and Comparative Analysis of Cellular Components in E. coli Reveals Broad Regulatory Changes in Response to Glucose Starvation. PLoS Computational Biology, 2015, 11, e1004400.	1.5	42
72	Geometric Constraints Dominate the Antigenic Evolution of Influenza H3N2 Hemagglutinin. PLoS Pathogens, 2015, 11, e1004940.	2.1	41

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73	Predicting the Tolerance of Proteins to Random Amino Acid Substitution. Biophysical Journal, 2005, 89, 3714-3720.	0.2	40
74	Lethal Mutagenesis of Bacteria. Genetics, 2008, 180, 1061-1070.	1.2	40
75	Translationally optimal codons associate with aggregationâ€prone sites in proteins. Proteomics, 2010, 10, 4163-4171.	1.3	40
76	Modeling coding-sequence evolution within the context of residue solvent accessibility. BMC Evolutionary Biology, 2012, 12, 179.	3.2	38
77	Metagenomic discovery of CRISPR-associated transposons. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	38
78	Humanization of yeast genes with multiple human orthologs reveals functional divergence between paralogs. PLoS Biology, 2020, 18, e3000627.	2.6	37
79	Probability of Fixation of an Advantageous Mutant in a Viral Quasispecies. Genetics, 2003, 163, 467-474.	1.2	37
80	Selection for mutational robustness in finite populations. Journal of Theoretical Biology, 2006, 243, 181-190.	0.8	35
81	Breaking proteins with mutations: threads and thresholds in evolution. Molecular Systems Biology, 2007, 3, 76.	3.2	35
82	The Phenotype-Fitness Map in Experimental Evolution of Phages. PLoS ONE, 2011, 6, e27796.	1.1	35
83	Sequence amplification via cell passaging creates spurious signals of positive adaptation in influenza virus H3N2 hemagglutinin. Virus Evolution, 2016, 2, vew026.	2.2	35
84	Reduced mRNA Secondary-Structure Stability Near the Start Codon Indicates Functional Genes in Prokaryotes. Genome Biology and Evolution, 2012, 4, 80-88.	1.1	33
85	Avian Influenza Virus PB1 Gene in H3N2 Viruses Evolved in Humans To Reduce Interferon Inhibition by Skewing Codon Usage toward Interferon-Altered tRNA Pools. MBio, 2018, 9, .	1.8	33
86	REPLICATION AT PERIODICALLY CHANGING MULTIPLICITY OF INFECTION PROMOTES STABLE COEXISTENCE OF COMPETING VIRAL POPULATIONS. Evolution; International Journal of Organic Evolution, 2004, 58, 900-905.	1.1	32
87	Predicting an epidemic trajectory is difficult. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 28549-28551.	3.3	31
88	Time dependence of evolutionary metrics during the 2009 pandemic influenza virus outbreak. Virus Evolution, 2015, 1, vev006.	2.2	30
89	Avida. , 2009, , 3-35.		30
90	Constraints on the dominant mechanism for HIV viral dynamics in patients on raltegravir. Antiviral Therapy, 2009, 14, 263-271.	0.6	30

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91	Membrane Environment Imposes Unique Selection Pressures on Transmembrane Domains of G Protein-Coupled Receptors. Journal of Molecular Evolution, 2013, 76, 172-182.	0.8	29
92	Optimal adaptive performance and delocalization in NK fitness landscapes. Physica A: Statistical Mechanics and Its Applications, 2002, 304, 495-506.	1.2	28
93	Cross-species comparison of site-specific evolutionary-rate variation in influenza haemagglutinin. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120334.	1.8	28
94	Methods of modelling viral disease dynamics across the within- and between-host scales: the impact of virus dose on host population immunity. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 1931-1941.	1.8	27
95	The Many Nuanced Evolutionary Consequences of Duplicated Genes. Molecular Biology and Evolution, 2019, 36, 304-314.	3.5	26
96	Constraints on the dominant mechanism for HIV viral dynamics in patients on raltegravir. Antiviral Therapy, 2009, 14, 263-71.	0.6	26
97	Specific and Nonspecific Host Adaptation during Arboviral Experimental Evolution. Journal of Molecular Microbiology and Biotechnology, 2011, 21, 71-81.	1.0	25
98	Incongruent fitness landscapes, not tradeoffs, dominate the adaptation of vesicular stomatitis virus to novel host types. Journal of General Virology, 2010, 91, 1484-1493.	1.3	24
99	Phenotypic differences in viral immune escape explained by linking within-host dynamics to host-population immunity. Journal of Theoretical Biology, 2010, 265, 501-510.	0.8	23
100	Short Communication: Dynamic Constraints on the Second Phase Compartment of HIV-Infected Cells. AIDS Research and Human Retroviruses, 2011, 27, 759-761.	0.5	23
101	Accelerated simulation of evolutionary trajectories in origin-fixation models. Journal of the Royal Society Interface, 2017, 14, 20160906.	1.5	22
102	Fitting outbreak models to data from many small norovirus outbreaks. Epidemics, 2014, 6, 18-29.	1.5	21
103	Extensively Parameterized Mutation–Selection Models Reliably Capture Site-Specific Selective Constraint. Molecular Biology and Evolution, 2016, 33, 2990-3002.	3.5	21
104	Reduced Protein Expression in a Virus Attenuated by Codon Deoptimization. G3: Genes, Genomes, Genetics, 2017, 7, 2957-2968.	0.8	21
105	Reduced stability of mRNA secondary structure near the translation-initiation site in dsDNA viruses. BMC Evolutionary Biology, 2011, 11, 59.	3.2	20
106	Contact Heterogeneity and Phylodynamics: How Contact Networks Shape Parasite Evolutionary Trees. Interdisciplinary Perspectives on Infectious Diseases, 2011, 2011, 1-9.	0.6	20
107	Comprehensive, structurally-informed alignment and phylogeny of vertebrate biogenic amine receptors. PeerJ, 2015, 3, e773.	0.9	20
108	Rapid Adaptive Amplification of Preexisting Variation in an RNA Virus. Journal of Virology, 2008, 82, 4354-4362.	1.5	19

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109	Simple model of evolution with variable system size. Physical Review E, 1997, 56, 7128-7131.	0.8	18
110	Genomic Evolution of Vesicular Stomatitis Virus Strains with Differences in Adaptability. Journal of Virology, 2010, 84, 4960-4968.	1.5	18
111	Does Mutational Robustness Inhibit Extinction by Lethal Mutagenesis in Viral Populations?. PLoS Computational Biology, 2010, 6, e1000811.	1.5	18
112	Amino-acid site variability among natural and designed proteins. PeerJ, 2013, 1, e211.	0.9	18
113	Predicting Growth Conditions from Internal Metabolic Fluxes in an In-Silico Model of E. coli. PLoS ONE, 2014, 9, e114608.	1.1	17
114	A Comparison of One-Rate and Two-Rate Inference Frameworks for Site-Specific <i>dN/ dS</i> Estimation. Genetics, 2016, 204, 499-511.	1.2	17
115	Dissecting the roles of local packing density and longerâ€range effects in protein sequence evolution. Proteins: Structure, Function and Bioinformatics, 2016, 84, 841-854.	1.5	17
116	Axion cyclotron emissivity of magnetized white dwarfs and neutron stars. Physical Review D, 1997, 56, 1313-1319.	1.6	16
117	Congruent Evolution of Fitness and Genetic Robustness in Vesicular Stomatitis Virus. Journal of Virology, 2013, 87, 4923-4928.	1.5	16
118	Within-Gene Shine–Dalgarno Sequences Are Not Selected for Function. Molecular Biology and Evolution, 2018, 35, 2487-2498.	3.5	16
119	More than efficacy revealed by single-cell analysis of antiviral therapeutics. Science Advances, 2019, 5, eaax4761.	4.7	16
120	A systematic analysis of the beta hairpin motif in the Protein Data Bank. Protein Science, 2021, 30, 613-623.	3.1	16
121	Aftershocks in coherent-noise models. Physica D: Nonlinear Phenomena, 1998, 120, 401-417.	1.3	15
122	Maternal Effects in Molecular Evolution. Physical Review Letters, 2002, 88, 078101.	2.9	15
123	Quasispecies in Time-Dependent Environments. , 2006, 299, 33-50.		15
124	RNasellI and T4 Polynucleotide Kinase sequence biases and solutions during RNA-seq library construction. Biology Direct, 2013, 8, 16.	1.9	15
125	Computational and Functional Analysis of the Virus-Receptor Interface Reveals Host Range Trade-Offs in New World Arenaviruses. Journal of Virology, 2015, 89, 11643-11653.	1.5	15
126	Computational prediction of the tolerance to amino-acid deletion in green-fluorescent protein. PLoS ONE, 2017, 12, e0164905.	1.1	15

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127	Calculating site-specific evolutionary rates at the amino-acid or codon level yields similar rate estimates. PeerJ, 2017, 5, e3391.	0.9	15
128	Adaptive walks on time-dependent fitness landscapes. Physical Review E, 1999, 60, 2154-2159.	0.8	14
129	Measuring evolutionary rates of proteins in a structural context. F1000Research, 2017, 6, 1845.	0.8	14
130	Genealogical process on a correlated fitness landscape. The Journal of Experimental Zoology, 2002, 294, 274-284.	1.4	13
131	Temporal and spatial alterations in mutant swarm size of St. Louis encephalitis virus in mosquito hosts. Infection, Genetics and Evolution, 2011, 11, 460-468.	1.0	13
132	Beyond Thermodynamic Constraints: Evolutionary Sampling Generates Realistic Protein Sequence Variation. Genetics, 2018, 208, 1387-1395.	1.2	13
133	Phylogenetic Weighting Does Little to Improve the Accuracy of Evolutionary Coupling Analyses. Entropy, 2019, 21, 1000.	1.1	13
134	Transcript degradation and codon usage regulate gene expression in a lytic phageâ€. Virus Evolution, 2019, 5, vez055.	2.2	13
135	Learning the local landscape of protein structures with convolutional neural networks. Journal of Biological Physics, 2021, 47, 435-454.	0.7	13
136	Digital Evolution in Time-Dependent Fitness Landscapes. Artificial Life, 2004, 10, 123-134.	1.0	12
137	Detecting Clusters of Mutations. PLoS ONE, 2008, 3, e3765.	1.1	12
138	Using the Mutation-Selection Framework to Characterize Selection on Protein Sequences. Genes, 2018, 9, 409.	1.0	12
139	Evolutionary couplings detect side-chain interactions. PeerJ, 2019, 7, e7280.	0.9	12
140	Lethal mutagenesis in a structured environment. Journal of Theoretical Biology, 2009, 261, 67-73.	0.8	11
141	Dynamic fitness landscapes: expansions for small mutation rates. Physica A: Statistical Mechanics and Its Applications, 2001, 290, 475-490.	1.2	10
142	Evolution of Resource Competition between Mutually Dependent Digital Organisms. Artificial Life, 2004, 10, 145-156.	1.0	10
143	Measuring evolutionary rates of proteins in a structural context. F1000Research, 2017, 6, 1845.	0.8	10
144	SELECTION FOR FITNESS VERSUS SELECTION FOR ROBUSTNESS IN RNA SECONDARY STRUCTURE FOLDING. Evolution; International Journal of Organic Evolution, 2001, 55, 2412.	1.1	9

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145	A Linear Relationship between Fitness and the Logarithm of the Critical Bottleneck Size in Vesicular Stomatitis Virus Populations. Journal of Virology, 2008, 82, 12589-12590.	1.5	9
146	Lethal Mutagenesis. , 2008, , 207-218.		9
147	Limited Utility of Residue Masking for Positive-Selection Inference. Molecular Biology and Evolution, 2014, 31, 2496-2500.	3.5	9
148	The utility of protein structure as a predictor of site-wise d N /d S varies widely among HIV-1 proteins. Journal of the Royal Society Interface, 2015, 12, 20150579.	1.5	9
149	Assessment of Raman Spectroscopy for Reducing Unnecessary Biopsies for Melanoma Screening. Molecules, 2020, 25, 2852.	1.7	9
150	At the mercy of viruses. ELife, 2016, 5, .	2.8	9
151	Analyzing machupo virus-receptor binding by molecular dynamics simulations. PeerJ, 2014, 2, e266.	0.9	9
152	Influenza passaging annotations: what they tell us and why we should listen. Virus Evolution, 2019, 5, vez016.	2.2	8
153	Experiments in Digital Evolution (Editors' Introduction to the Special Issue). Artificial Life, 2004, 10, 117-122.	1.0	7
154	Transcriptional Robustness Complements Nonsense-Mediated Decay in Humans. PLoS Genetics, 2011, 7, e1002296.	1.5	7
155	Intermediate divergence levels maximize the strength of structure–sequence correlations in enzymes and viral proteins. Protein Science, 2016, 25, 1341-1353.	3.1	7
156	Principal-Oscillation-Pattern Analysis of Gene Expression. PLoS ONE, 2012, 7, e28805.	1.1	7
157	Kinetics of the viral cycle influence pharmacodynamics of antiretroviral therapy. Biology Direct, 2011, 6, 42.	1.9	6
158	Evolutionary paths of least resistance. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12553-12554.	3.3	6
159	Predicting bacterial growth conditions from mRNA and protein abundances. PLoS ONE, 2018, 13, e0206634.	1.1	6
160	Pinetree: a step-wise gene expression simulator with codon-specific translation rates. Bioinformatics, 2019, 35, 4176-4178.	1.8	6
161	Moderate Amounts of Epistasis are Not Evolutionarily Stable in Small Populations. Journal of Molecular Evolution, 2020, 88, 435-444.	0.8	6
162	Modelling Stochastic Clonal Interference. Natural Computing Series, 2004, , 21-38.	2.2	6

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163	Robustness and Evolvability in Living Systems. BioScience, 2006, 56, 695.	2.2	5
164	A Comprehensive Coexpression Network Analysis in Vibrio cholerae. MSystems, 2020, 5, .	1.7	5
165	The evolution of logic circuits for the purpose of protein contact map prediction. PeerJ, 2017, 5, e3139.	0.9	5
166	Tradeoff between short-term and long-term adaptation in a changing environment. Physical Review E, 2005, 72, 041922.	0.8	4
167	INTERACTIONS BETWEEN EVOLUTIONARY PROCESSES AT HIGH MUTATION RATES. Evolution; International Journal of Organic Evolution, 2012, 66, 2303-2314.	1.1	4
168	A new twist in measuring mutation rates. ELife, 2017, 6, .	2.8	4
169	Combinatorial Approaches to Viral Attenuation. MSystems, 2018, 3, .	1.7	4
170	Site-Specific Amino Acid Distributions Follow a Universal Shape. Journal of Molecular Evolution, 2020, 88, 731-741.	0.8	4
171	REPLICATION AT PERIODICALLY CHANGING MULTIPLICITY OF INFECTION PROMOTES STABLE COEXISTENCE OF COMPETING VIRAL POPULATIONS. Evolution; International Journal of Organic Evolution, 2004, 58, 900.	1.1	3
172	Eigen-Genomic System Dynamic-Pattern Analysis (ESDA): Modeling mRNA Degradation and Self-Regulation. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 430-437.	1.9	3
173	The role of environmental factors on the evolution of phenotypic diversity in vesicular stomatitis virus populations. Journal of General Virology, 2013, 94, 860-868.	1.3	3
174	Modeling poliovirus replication dynamics from live time-lapse single-cell imaging data. Scientific Reports, 2021, 11, 9622.	1.6	3
175	Avida: Evolution Experiments with Self-Replicating Computer Programs. , 2005, , 3-35.		3
176	Reproducibility of SNV-calling in multiple sequencing runs from single tumors. PeerJ, 2016, 4, e1508.	0.9	3
177	What does sex have to do with it: tracking the fate of deleterious mutations in sexual populations , 0, , .		3
178	Reply to Torre. Clinical Infectious Diseases, 2010, 50, 1425-1426.	2.9	2
179	Long-Term Control of Viral Replication in a Group O, Human Immunodeficiency Virus Type 1-Infected Individual. AIDS Research and Human Retroviruses, 2014, 30, 511-513.	0.5	2
180	TsrA Regulates Virulence and Intestinal Colonization in <i>Vibrio cholerae</i> . MSphere, 2020, 5, .	1.3	2

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181	Opfi: A Python package for identifying gene clusters in large genomics and metagenomics data sets. Journal of Open Source Software, 2021, 6, 3678.	2.0	2
182	Hierarchical noise in large systems of independent agents. Physical Review E, 1998, 58, 7101-7108.	0.8	1
183	Lifetimes of agents under external stress. Physical Review E, 1999, 59, R2512-R2515.	0.8	1
184	Does the Red Queen Reign in the Kingdom of Digital Organisms?. Lecture Notes in Computer Science, 2003, , 405-414.	1.0	1
185	Frequency-dependent selection in a periodic environment. Physica A: Statistical Mechanics and Its Applications, 2007, 381, 255-264.	1.2	1
186	Molecular Evolution in Time-Dependent Environments. Lecture Notes in Computer Science, 1999, , 417-421.	1.0	1
187	Supplementary materials need the right format. Nature, 2004, 430, 291-291.	13.7	0
188	Molecular clocks: The heavy, the cold, and the slow. Heredity, 2005, 95, 115-115.	1.2	0
189	Generating dynamic gene expression patterns without the need for regulatory circuits. PLoS ONE, 2022, 17, e0268883.	1.1	Ο