Christopher G Knight

List of Publications by Year
in descending order

40 papers	2,195 citations	361045 20 h-index	344852 36 g-index
43 all docs	43 docs citations	43 times ranked	3504 citing authors

#	Article	IF	Citations
1	Harnessing rhizosphere microbiomes for drought-resilient crop production. Science, 2020, 368, 270-274.	6.0	442
2	Genomic and genetic analyses of diversity and plant interactions of Pseudomonas fluorescens. Genome Biology, 2009, 10, R51.	13.9	370
3	Adaptive Divergence in Experimental Populations of Pseudomonas fluorescens. III. Mutational Origins of Wrinkly Spreader Diversity. Genetics, 2007, 176, 441-453.	1.2	150
4	Detecting macroecological patterns in bacterial communities across independent studies of global soils. Nature Microbiology, 2018, 3, 189-196.	5.9	136
5	Array-based evolution of DNA aptamers allows modelling of an explicit sequence-fitness landscape. Nucleic Acids Research, 2009, 37, e6-e6.	6.5	96
6	Linkage disequilibrium network analysis (<scp>LD</scp>na) gives a global view of chromosomal inversions, local adaptation and geographic structure. Molecular Ecology Resources, 2015, 15, 1031-1045.	2.2	85
7	A novel mode of ecdysozoan growth in Caenorhabditis elegans. Evolution & Development, 2002, 4, 16-27.	1.1	82
8	Absolute Quantification of the Glycolytic Pathway in Yeast:. Molecular and Cellular Proteomics, 2011, 10, M111.007633.	2.5	70
9	Mutation rate plasticity in rifampicin resistance depends on Escherichia coli cellâ€"cell interactions. Nature Communications, 2014, 5, 3742.	5.8	69
10	Unraveling adaptive evolution: how a single point mutation affects the protein coregulation network. Nature Genetics, 2006, 38, 1015-1022.	9.4	68
11	Association of parameter, software, and hardware variation with large-scale behavior across 57,000 climate models. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12259-12264.	3.3	65
12	From The Cover: Global analysis of predicted proteomes: Functional adaptation of physical properties. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8390-8395.	3.3	63
13	Spontaneous mutation rate is a plastic trait associated with population density across domains of life. PLoS Biology, 2017, 15, e2002731.	2.6	58
14	Whole Genome Sequencing,<i>de Novo</i>Assembly and Phenotypic Profiling for the New Budding Yeast Species<i>Saccharomyces jurei</i>. G3: Genes, Genomes, Genetics, 2018, 8, 2967-2977.	0.8	46
15	The lexicon of antimicrobial peptides: a complete set of arginine and tryptophan sequences. Communications Biology, 2021, 4, 605.	2.0	45
16	Evolution of germ-line signals that regulate growth and aging in nematodes. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 769-774.	3.3	43
17	TESTING LIFE-HISTORY PLEIOTROPY IN CAENORHABDITIS ELEGANS. Evolution; International Journal of Organic Evolution, 2001, 55, 1795-1804.	1.1	37
18	Integrated bioinformatic and phenotypic analysis of RpoN-dependent traits in the plant growth-promoting bacterium Pseudomonas fluorescens SBW25. Environmental Microbiology, 2007, 9, 3046-3064.	1.8	30

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19	Gut eosinophils and their impact on the mucus‐resident microbiota. Immunology, 2019, 158, 194-205.	2.0	29
20	Morphological Phylogenetics Evaluated Using Novel Evolutionary Simulations. Systematic Biology, 2020, 69, 897-912.	2.7	26
21	Making the right connections: biological networks in the light of evolution. BioEssays, 2009, 31, 1080-1090.	1.2	21
22	Variable Effects of Exposure to Formulated Microbicides on Antibiotic Susceptibility in Firmicutes and Proteobacteria. Applied and Environmental Microbiology, 2016, 82, 3591-3598.	1.4	21
23	Cage and maternal effects on the bacterial communities of the murine gut. Scientific Reports, 2021, 11, 9841.	1.6	21
24	Effect of summer daylight exposure and genetic background on growth in growth hormone-deficient children. Pharmacogenomics Journal, 2016, 16, 540-550.	0.9	18
25	Function-valued traits in evolution. Journal of the Royal Society Interface, 2013, 10, 20121032.	1.5	16
26	Does the Microbiome Affect the Outcome of Renal Transplantation?. Frontiers in Cellular and Infection Microbiology, 2020, 10, 558644.	1.8	13
27	Measuring Microbial Mutation Rates with the Fluctuation Assay. Journal of Visualized Experiments, 2019, , .	0.2	9
28	Opposing effects of final population density and stress on *Escherichia coli* mutation rate. ISME Journal, 2018, 12, 2981-2987.	4.4	8
29	Environmental pleiotropy and demographic history direct adaptation under antibiotic selection. Heredity, 2018, 121, 438-448.	1.2	7
30	Where antibiotic resistance mutations meet quorum-sensing. Microbial Cell, 2014, 1, 250-252.	1.4	7
31	Pale Rock Sparrow Carpospiza brachydactyla in the Mount Lebanon range: modelling breeding habitat. Ibis, 2005, 147, 324-333.	1.0	6
32	Monotonicity of fitness landscapes and mutation rate control. Journal of Mathematical Biology, 2016, 73, 1491-1524.	0.8	6
33	TESTING LIFE-HISTORY PLEIOTROPY IN CAENORHABDITIS ELEGANS. Evolution; International Journal of Organic Evolution, 2001, 55, 1795.	1.1	5
34	Testing temperature‐induced proteomic changes in the plant‐associated bacterium *Pseudomonas fluorescens* SBW25. Environmental Microbiology Reports, 2010, 2, 396-402.	1.0	5
35	Critical Mutation Rate has an Exponential Dependence on Population Size for Eukaryotic-length Genomes with Crossover. Scientific Reports, 2017, 7, 15519.	1.6	5
36	The genetics of phenotypic innovation. , 0, , 91-104.		4

#	Article	IF	Citations
37	Critical Mutation Rate Has an Exponential Dependence on Population Size in Haploid and Diploid Populations. PLoS ONE, 2013, 8, e83438.	1.1	4
38	Critical mutation rate in a population with horizontal gene transfer. , 2017, , .		1
39	Elements of Computational Systems Biology. Eds. H. M. Lodhi & S. Muggleton. Wiley-Blackwell. 2010. 412 pages. ISBN 9780470180938. Price $115 (hardback).. Genetical Research, 2010, 92, 324-325.	0.3	0
40	Optimal Mutation Rate Control under Selection in Hamming Spaces. , 0, , .		0