Joseph P Bielawski

List of Publications by Year in descending order

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72 papers

6,828 citations

33 h-index 98622 67 g-index

73 all docs

73 docs citations

times ranked

73

8176 citing authors

#	Article	IF	CITATIONS
1	Evolution of amino acid propensities under stability-mediated epistasis. Molecular Biology and Evolution, 2022, , .	3.5	7
2	Novel application of survival models for predicting microbial community transitions with variable selection for eDNA. Applied and Environmental Microbiology, 2022, , AEM0214621.	1.4	0
3	Investigating the gut microbial community and genes in children with differing levels of change in serum asparaginase activity during pegaspargase treatment for acute lymphoblastic leukemia. Leukemia and Lymphoma, 2021, 62, 927-936.	0.6	4
4	The role of purifying selection in the origin and maintenance of complex function. Studies in History and Philosophy of Science Part A, 2021, 87, 125-135.	0.6	12
5	Gut bacterial gene changes following pegaspargase treatment in pediatric patients with acute lymphoblastic leukemia. Leukemia and Lymphoma, 2021, 62, 1-12.	0.6	2
6	Shifts in amino acid preferences as proteins evolve: A synthesis of experimental and theoretical work. Protein Science, 2021, 30, 2009-2028.	3.1	5
7	A Phenotype–Genotype Codon Model for Detecting Adaptive Evolution. Systematic Biology, 2020, 69, 722-738.	2.7	12
8	The relationship between fecal bile acids and microbiome community structure in pediatric Crohn's disease. ISME Journal, 2020, 14, 702-713.	4.4	59
9	Re-evaluating the relationship between missing heritability and the microbiome. Microbiome, 2020, 8, 87.	4.9	17
10	Consequences of Stability-Induced Epistasis for Substitution Rates. Molecular Biology and Evolution, 2020, 37, 3131-3148.	3.5	7
11	Bacterial Taxa and Functions Are Predictive of Sustained Remission Following Exclusive Enteral Nutrition in Pediatric Crohn's Disease. Inflammatory Bowel Diseases, 2020, 26, 1026-1037.	0.9	35
12	Crohn's Disease Exclusion Diet Plus Partial Enteral Nutrition Induces Sustained Remission in a Randomized Controlled Trial. Gastroenterology, 2019, 157, 440-450.e8.	0.6	378
13	Introduction to Genome Biology and Diversity. Methods in Molecular Biology, 2019, 1910, 3-31.	0.4	8
14	ModL: exploring and restoring regularity when testing for positive selection. Bioinformatics, 2019, 35, 2545-2554.	1.8	3
15	Improved inference of site-specific positive selection under a generalized parametric codon model when there are multinucleotide mutations and multiple nonsynonymous rates. BMC Evolutionary Biology, 2019, 19, 22.	3.2	11
16	Looking for Darwin in Genomic Sequences: Validity and Success Depends on the Relationship Between Model and Data. Methods in Molecular Biology, 2019, 1910, 399-426.	0.4	4
17	Multi-omics differentially classify disease state and treatment outcome in pediatric Crohn's disease. Microbiome, 2018, 6, 13.	4.9	94
18	Phenomenological Load on Model Parameters Can Lead to False Biological Conclusions. Molecular Biology and Evolution, 2018, 35, 1473-1488.	3.5	23

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19	Bayesian Inference of Microbial Community Structure from Metagenomic Data Using BioMiCo. Methods in Molecular Biology, 2018, 1849, 267-289.	0.4	O
20	Novel Strategies for Applied Metagenomics. Inflammatory Bowel Diseases, 2016, 22, 709-718.	0.9	25
21	Inference of Episodic Changes in Natural Selection Acting on Protein Coding Sequences via CODEML. Current Protocols in Bioinformatics, 2016, 54, 6.15.1-6.15.32.	25.8	13
22	Early Changes in Microbial Community Structure Are Associated with Sustained Remission After Nutritional Treatment of Pediatric Crohn's Disease. Inflammatory Bowel Diseases, 2016, 22, 2853-2862.	0.9	69
23	Smoothed Bootstrap Aggregation for Assessing Selection Pressure at Amino Acid Sites. Molecular Biology and Evolution, 2016, 33, 2976-2989.	3.5	6
24	Shifting Balance on a Static Mutation–Selection Landscape: A Novel Scenario of Positive Selection. Molecular Biology and Evolution, 2016, 34, msw237.	3.5	24
25	The Gut Microbiome of Pediatric Crohn $\hat{E}^{1}/4$ s Disease Patients Differs from Healthy Controls in Genes That Can Influence the Balance Between a Healthy and Dysregulated Immune Response. Inflammatory Bowel Diseases, 2016, 22, 2607-2618.	0.9	33
26	Functional Divergence of the Nuclear Receptor <i>NR2C1</i> as a Modulator of Pluripotentiality During Hominid Evolution. Genetics, 2016, 203, 905-922.	1.2	33
27	Seasonal assemblages and shortâ€lived blooms in coastal northâ€west <scp>A</scp> tlantic <scp>O</scp> cean bacterioplankton. Environmental Microbiology, 2015, 17, 3642-3661.	1.8	51
28	BioMiCo: a supervised Bayesian model for inference of microbial community structure. Microbiome, 2015, 3, 8.	4.9	43
29	Review and meta-analysis of natural selection in mitochondrial complex I in metazoans. Journal of Zoological Systematics and Evolutionary Research, 2015, 53, 1-17.	0.6	70
30	BiomeNet: A Bayesian Model for Inference of Metabolic Divergence among Microbial Communities. PLoS Computational Biology, 2014, 10, e1003918.	1.5	30
31	Molecular Evolutionary Characterization of a V1R Subfamily Unique to Strepsirrhine Primates. Genome Biology and Evolution, 2014, 6, 213-227.	1.1	71
32	Detecting the Signatures of Adaptive Evolution in Proteinâ€Coding Genes. Current Protocols in Molecular Biology, 2013, 101, Unit 19.1	2.9	12
33	Inference of Functional Divergence Among Proteins When the Evolutionary Process is Non-stationary. Journal of Molecular Evolution, 2013, 76, 205-215.	0.8	7
34	Improving Evolutionary Models for Mitochondrial Protein Data with Site-Class Specific Amino Acid Exchangeability Matrices. PLoS ONE, 2013, 8, e55816.	1.1	11
35	Likelihood-based clustering (LiBaC) for codon models. , 2012, , 60-72.		0
36	Portal protein diversity and phage ecology. Environmental Microbiology, 2011, 13, 2832-2832.	1.8	0

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37	Recombination Detection Under Evolutionary Scenarios Relevant to Functional Divergence. Journal of Molecular Evolution, 2011, 73, 273-286.	0.8	49
38	Positive Darwinian Selection in the Piston That Powers Proton Pumps in Complex I of the Mitochondria of Pacific Salmon. PLoS ONE, 2011, 6, e24127.	1.1	84
39	Reconciling Ecological and Genomic Divergence among Lineages of Listeria under an "Extended Mosaic Genome Concept". Molecular Biology and Evolution, 2009, 26, 2605-2615.	3 . 5	23
40	Trade-Offs Between Efficiency and Robustness in Bacterial Metabolic Networks Are Associated with Niche Breadth. Journal of Molecular Evolution, 2009, 68, 506-515.	0.8	9
41	Portal protein diversity and phage ecology. Environmental Microbiology, 2008, 10, 2810-2823.	1.8	100
42	Multilocus Genotyping Assays for Single Nucleotide Polymorphism-Based Subtyping of <i>Listeria monocytogenes</i> Isolates. Applied and Environmental Microbiology, 2008, 74, 7629-7642.	1.4	173
43	Likelihood-Based Clustering (LiBaC) for Codon Models, a Method for Grouping Sites according to Similarities in the Underlying Process of Evolution. Molecular Biology and Evolution, 2008, 25, 1995-2007.	3.5	13
44	Methods for selecting fixed-effect models for heterogeneous codon evolution, with comments on their application to gene and genome data. BMC Evolutionary Biology, 2007, 7, S5.	3.2	15
45	Evolutionary rate variation among vertebrate \hat{l}^2 globin genes: Implications for dating gene family duplication events. Gene, 2006, 380, 21-29.	1.0	29
46	Large-scale analyses of synonymous substitution rates can be sensitive to assumptions about the process of mutation. Gene, 2006, 378, 58-64.	1.0	21
47	Proposed standard nomenclature for the .ALPHA and .BETAglobin gene families. Genes and Genetic Systems, 2006, 81, 367-371.	0.2	20
48	Adaptive Evolution of Multicolored Fluorescent Proteins in Reef-Building Corals. Journal of Molecular Evolution, 2006, 62, 332-339.	0.8	90
49	Evolutionary Rates and Expression Level in Chlamydomonas. Genetics, 2006, 172, 1567-1576.	1.2	37
50	Prevalence and Evolution of Core Photosystem II Genes in Marine Cyanobacterial Viruses and Their Hosts. PLoS Biology, 2006, 4, e234.	2.6	394
51	Potential photosynthesis gene recombination between Prochlorococcus and Synechococcus via viral intermediates. Environmental Microbiology, 2005, 7, 1505-1513.	1.8	149
52	Adaptive Diversification of Vomeronasal Receptor 1 Genes in Rodents. Journal of Molecular Evolution, 2005, 60, 566-576.	0.8	56
53	Maximum Likelihood Methods for Detecting Adaptive Protein Evolution. , 2005, , 103-124.		32
54	Darwinian adaptation of proteorhodopsin to different light intensities in the marine environment. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 14824-14829.	3.3	96

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55	The origin and evolution of geminivirus-related DNA sequences in Nicotiana. Heredity, 2004, 92, 352-358.	1.2	65
56	A Maximum Likelihood Method for Detecting Functional Divergence at Individual Codon Sites, with Application to Gene Family Evolution. Journal of Molecular Evolution, 2004, 59, 121-32.	0.8	267
57	Gene Conversion and Functional Divergence in the ?-Globin Gene Family. Journal of Molecular Evolution, 2004, 59, 177-189.	0.8	34
58	Maximum likelihood methods for detecting adaptive evolution after gene duplication. Journal of Structural and Functional Genomics, 2003, 3, 201-212.	1.2	152
59	Widespread Adaptive Evolution in the Human Immunodeficiency Virus Type 1 Genome. Journal of Molecular Evolution, 2003, 57, 212-221.	0.8	98
60	Novel Proteorhodopsin variants from the Mediterranean and Red Seas. Environmental Microbiology, 2003, 5, 842-849.	1.8	109
61	Maximum likelihood methods for detecting adaptive evolution after gene duplication. Journal of Structural and Functional Genomics, 2003, 3, 201-12.	1.2	90
62	Ancestral polymorphism and adaptive evolution in the trichothecene mycotoxin gene cluster of phytopathogenic Fusarium. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 9278-9283.	3.3	489
63	Accuracy and Power of Bayes Prediction of Amino Acid Sites Under Positive Selection. Molecular Biology and Evolution, 2002, 19, 950-958.	3.5	388
64	Phylogenetic relationships within the genus Pimephales as inferred from ND4 and ND4L nucleotide sequences. Journal of Fish Biology, 2002, 61, 293-297.	0.7	6
65	Mutation Patterns of Mitochondrial H- and L-Strand DNA in Closely Related Cyprinid Fishes. Genetics, 2002, 161, 1589-1597.	1.2	52
66	Accuracy and Power of the Likelihood Ratio Test in Detecting Adaptive Molecular Evolution. Molecular Biology and Evolution, 2001, 18, 1585-1592.	3.5	658
67	Positive and Negative Selection in the DAZ Gene Family. Molecular Biology and Evolution, 2001, 18, 523-529.	3.5	100
68	Substitution Rates in Drosophila Nuclear Genes: Implications for Translational Selection. Genetics, 2001, 157, 295-305.	1.2	74
69	Statistical methods for detecting molecular adaptation. Trends in Ecology and Evolution, 2000, 15, 496-503.	4.2	1,532
70	Rates of Nucleotide Substitution and Mammalian Nuclear Gene Evolution: Approximate and Maximum-Likelihood Methods Lead to Different Conclusions. Genetics, 2000, 156, 1299-1308.	1.2	75
71	Randomly amplified polymorphic DNA (RAPD) analysis of Atlantic Coast striped bass. Heredity, 1997, 78, 32-40.	1.2	57
72	Randomly amplified polymorphic DNA (RAPD) analysis of Atlantic Coast striped bass. Heredity, 1997, 78, 32-40.	1.2	13