

James P Balhoff

List of Publications by Year in descending order

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50
papers

8,472
citations

186265

28
h-index

223800

46
g-index

65
all docs

65
docs citations

65
times ranked

15167
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing Bayesian Phylogenetic Information Content of Morphological Data Using Knowledge From Anatomy Ontologies. <i>Systematic Biology</i> , 2022, 71, 1290-1306.	5.6	6
2	A Simple Standard for Sharing Ontological Mappings (SSSOM). <i>Database: the Journal of Biological Databases and Curation</i> , 2022, 2022, .	3.0	23
3	KG-COVID-19: A Framework to Produce Customized Knowledge Graphs for COVID-19 Response. <i>Patterns</i> , 2021, 2, 100155.	5.9	62
4	Reactome and the Gene Ontology: digital convergence of data resources. <i>Bioinformatics</i> , 2021, 37, 3343-3348.	4.1	19
5	The Gene Ontology resource: enriching a GOld mine. <i>Nucleic Acids Research</i> , 2021, 49, D325-D334.	14.5	2,416
6	OBO Foundry in 2021: operationalizing open data principles to evaluate ontologies. <i>Database: the Journal of Biological Databases and Curation</i> , 2021, 2021, .	3.0	77
7	A Logical Model of Homology for Comparative Biology. <i>Systematic Biology</i> , 2020, 69, 345-362.	5.6	11
8	The Monarch Initiative in 2019: an integrative data and analytic platform connecting phenotypes to genotypes across species. <i>Nucleic Acids Research</i> , 2020, 48, D704-D715.	14.5	178
9	Transforming the study of organisms: Phenomic data models and knowledge bases. <i>PLoS Computational Biology</i> , 2020, 16, e1008376.	3.2	12
10	Visualization Environment for Federated Knowledge Graphs: Development of an Interactive Biomedical Query Language and Web Application Interface. <i>JMIR Medical Informatics</i> , 2020, 8, e17964.	2.6	12
11	ROBOT: A Tool for Automating Ontology Workflows. <i>BMC Bioinformatics</i> , 2019, 20, 407.	2.6	97
12	Gene Ontology Causal Activity Modeling (GO-CAM) moves beyond GO annotations to structured descriptions of biological functions and systems. <i>Nature Genetics</i> , 2019, 51, 1429-1433.	21.4	76
13	Developing a vocabulary and ontology for modeling insect natural history data: example data, use cases, and competency questions. <i>Biodiversity Data Journal</i> , 2019, 7, e33303.	0.8	3
14	Expansion of the Human Phenotype Ontology (HPO) knowledge base and resources. <i>Nucleic Acids Research</i> , 2019, 47, D1018-D1027.	14.5	539
15	Automated Integration of Trees and Traits: A Case Study Using Paired Fin Loss Across Teleost Fishes. <i>Systematic Biology</i> , 2018, 67, 559-575.	5.6	11
16	Annotation of phenotypes using ontologies: a gold standard for the training and evaluation of natural language processing systems. <i>Database: the Journal of Biological Databases and Curation</i> , 2018, 2018, .	3.0	19
17	Expansion of the Gene Ontology knowledgebase and resources. <i>Nucleic Acids Research</i> , 2017, 45, D331-D338.	14.5	1,838
18	The Monarch Initiative: an integrative data and analytic platform connecting phenotypes to genotypes across species. <i>Nucleic Acids Research</i> , 2017, 45, D712-D722.	14.5	306

#	ARTICLE	IF	CITATIONS
19	Dead simple OWL design patterns. <i>Journal of Biomedical Semantics</i> , 2017, 8, 18.	1.6	39
20	A generic bioinformatics pipeline to integrate large-scale trait data with large phylogenies. , 2017, , .		1
21	Navigating the Phenotype Frontier: The Monarch Initiative. <i>Genetics</i> , 2016, 203, 1491-1495.	2.9	65
22	Phenoscape: Identifying Candidate Genes for Evolutionary Phenotypes. <i>Molecular Biology and Evolution</i> , 2016, 33, 13-24.	8.9	37
23	Muscle Logic: New Knowledge Resource for Anatomy Enables Comprehensive Searches of the Literature on the Feeding Muscles of Mammals. <i>PLoS ONE</i> , 2016, 11, e0149102.	2.5	5
24	INVESTIGATING THE IMPORTANCE OF ANATOMICAL HOMOLOGY FOR CROSS-SPECIES PHENOTYPE COMPARISONS USING SEMANTIC SIMILARITY. , 2016, , .		2
25	Scowl: a Scala DSL for programming with the OWL API. <i>Journal of Open Source Software</i> , 2016, 1, 23.	4.6	1
26	Using the phenoscape knowledgebase to relate genetic perturbations to phenotypic evolution. <i>Genesis</i> , 2015, 53, 561-571.	1.6	19
27	CharaParser+EQ: Performance evaluation without gold standard. <i>Proceedings of the Association for Information Science and Technology</i> , 2015, 52, 1-10.	0.6	12
28	Toward Synthesizing Our Knowledge of Morphology: Using Ontologies and Machine Reasoning to Extract Presence/Absence Evolutionary Phenotypes across Studies. <i>Systematic Biology</i> , 2015, 64, 936-952.	5.6	51
29	Finding Our Way through Phenotypes. <i>PLoS Biology</i> , 2015, 13, e1002033.	5.6	178
30	Folding Wings like a Cockroach: A Review of Transverse Wing Folding Ensign Wasps (Hymenoptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.5	34
31	Annotation of phenotypic diversity: decoupling data curation and ontology curation using Phenex. <i>Journal of Biomedical Semantics</i> , 2014, 5, 45.	1.6	16
32	Unification of multi-species vertebrate anatomy ontologies for comparative biology in Uberon. <i>Journal of Biomedical Semantics</i> , 2014, 5, 21.	1.6	121
33	Phylotastic! Making tree-of-life knowledge accessible, reusable and convenient. <i>BMC Bioinformatics</i> , 2013, 14, 158.	2.6	33
34	The vertebrate taxonomy ontology: a framework for reasoning across model organism and species phenotypes. <i>Journal of Biomedical Semantics</i> , 2013, 4, 34.	1.6	39
35	A Semantic Model for Species Description Applied to the Ensign Wasps (Hymenoptera: Evaniidae) of New Caledonia. <i>Systematic Biology</i> , 2013, 62, 639-659.	5.6	46
36	Matching arthropod anatomy ontologies to the Hymenoptera Anatomy Ontology: results from a manual alignment. <i>Database: the Journal of Biological Databases and Curation</i> , 2013, 2013, bas057-bas057.	3.0	8

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37	An overview of the BioCreative 2012 Workshop Track III: interactive text mining task. Database: the Journal of Biological Databases and Curation, 2013, 2013, bas056-bas056.	3.0	68
38	NeXML: Rich, Extensible, and Verifiable Representation of Comparative Data and Metadata. Systematic Biology, 2012, 61, 675-689.	5.6	90
39	A revision of <i>Evaniscus</i> (Hymenoptera, Evaniidae) using ontology-based semantic phenotype annotation. ZooKeys, 2012, 223, 1-38.	1.1	17
40	Time to change how we describe biodiversity. Trends in Ecology and Evolution, 2012, 27, 78-84.	8.7	120
41	500,000 fish phenotypes: The new informatics landscape for evolutionary and developmental biology of the vertebrate skeleton. Journal of Applied Ichthyology, 2012, 28, 300-305.	0.7	52
42	A Unified Anatomy Ontology of the Vertebrate Skeletal System. PLoS ONE, 2012, 7, e51070.	2.5	40
43	Phenex: Ontological Annotation of Phenotypic Diversity. PLoS ONE, 2010, 5, e10500.	2.5	78
44	Evolutionary Characters, Phenotypes and Ontologies: Curating Data from the Systematic Biology Literature. PLoS ONE, 2010, 5, e10708.	2.5	83
45	The Teleost Anatomy Ontology: Anatomical Representation for the Genomics Age. Systematic Biology, 2010, 59, 369-383.	5.6	76
46	Development and application of a phylogenomic toolkit: Resolving the evolutionary history of Madagascar's lemurs. Genome Research, 2008, 18, 489-499.	5.5	191
47	Evolutionary analysis of the well characterized endo16 promoter reveals substantial variation within functional sites. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8591-8596.	7.1	60
48	The Evolution of Transcriptional Regulation in Eukaryotes. Molecular Biology and Evolution, 2003, 20, 1377-1419.	8.9	1,034
49	Highly Specific and Quantitative Activation of STATs in 3T3-L1 Adipocytes. Biochemical and Biophysical Research Communications, 1998, 247, 894-900.	2.1	52
50	A hymenopterists' guide to the Hymenoptera Anatomy Ontology: utility, clarification, and future directions. Journal of Hymenoptera Research, 0, 27, 67-88.	0.8	64