James P Balhoff

List of Publications by Year
in descending order

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	The Gene Ontology resource: enriching a GOld mine. Nucleic Acids Research, 2021, 49, D325-D334.	14.5	2,416
2	Expansion of the Gene Ontology knowledgebase and resources. Nucleic Acids Research, 2017, 45, D331-D338.	14.5	1,838
3	The Evolution of Transcriptional Regulation in Eukaryotes. Molecular Biology and Evolution, 2003, 20, 1377-1419.	8.9	1,034
4	Expansion of the Human Phenotype Ontology (HPO) knowledge base and resources. Nucleic Acids Research, 2019, 47, D1018-D1027.	14.5	539
5	The Monarch Initiative: an integrative data and analytic platform connecting phenotypes to genotypes across species. Nucleic Acids Research, 2017, 45, D712-D722.	14.5	306
6	Development and application of a phylogenomic toolkit: Resolving the evolutionary history of Madagascar's lemurs. Genome Research, 2008, 18, 489-499.	5.5	191
7	Finding Our Way through Phenotypes. PLoS Biology, 2015, 13, e1002033.	5.6	178
8	The Monarch Initiative in 2019: an integrative data and analytic platform connecting phenotypes to genotypes across species. Nucleic Acids Research, 2020, 48, D704-D715.	14.5	178
9	Unification of multi-species vertebrate anatomy ontologies for comparative biology in Uberon. Journal of Biomedical Semantics, 2014, 5, 21.	1.6	121
10	Time to change how we describe biodiversity. Trends in Ecology and Evolution, 2012, 27, 78-84.	8.7	120
11	ROBOT: A Tool for Automating Ontology Workflows. BMC Bioinformatics, 2019, 20, 407.	2.6	97
12	NeXML: Rich, Extensible, and Verifiable Representation of Comparative Data and Metadata. Systematic Biology, 2012, 61, 675-689.	5.6	90
13	Evolutionary Characters, Phenotypes and Ontologies: Curating Data from the Systematic Biology Literature. PLoS ONE, 2010, 5, e10708.	2.5	83
14	Phenex: Ontological Annotation of Phenotypic Diversity. PLoS ONE, 2010, 5, e10500.	2.5	78
15	OBO Foundry in 2021: operationalizing open data principles to evaluate ontologies. Database: the Journal of Biological Databases and Curation, 2021, 2021, .	3.0	77
16	The Teleost Anatomy Ontology: Anatomical Representation for the Genomics Age. Systematic Biology, 2010, 59, 369-383.	5.6	76
17	Gene Ontology Causal Activity Modeling (GO-CAM) moves beyond GO annotations to structured descriptions of biological functions and systems. Nature Genetics, 2019, 51, 1429-1433.	21.4	76
18	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

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19	Navigating the Phenotype Frontier: The Monarch Initiative. Genetics, 2016, 203, 1491-1495.	2.9	65
20	A hymenopterists' guide to the Hymenoptera Anatomy Ontology: utility, clarification, and future directions. Journal of Hymenoptera Research, 0, 27, 67-88.	0.8	64
21	KG-COVID-19: A Framework to Produce Customized Knowledge Graphs for COVID-19 Response. Patterns, 2021, 2, 100155.	5.9	62
22	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
23	Highly Specific and Quantitative Activation of STATs in 3T3-L1 Adipocytes. Biochemical and Biophysical Research Communications, 1998, 247, 894-900.	2.1	52
24	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
25	Toward Synthesizing Our Knowledge of Morphology: Using Ontologies and Machine Reasoning to Extract Presence/Absence Evolutionary Phenotypes across Studies. Systematic Biology, 2015, 64, 936-952.	5.6	51
26	A Semantic Model for Species Description Applied to the Ensign Wasps (Hymenoptera: Evaniidae) of New Caledonia. Systematic Biology, 2013, 62, 639-659.	5.6	46
27	A Unified Anatomy Ontology of the Vertebrate Skeletal System. PLoS ONE, 2012, 7, e51070.	2.5	40
28	The vertebrate taxonomy ontology: a framework for reasoning across model organism and species phenotypes. Journal of Biomedical Semantics, 2013, 4, 34.	1.6	39
29	Dead simple OWL design patterns. Journal of Biomedical Semantics, 2017, 8, 18.	1.6	39
30	Phenoscape: Identifying Candidate Genes for Evolutionary Phenotypes. Molecular Biology and Evolution, 2016, 33, 13-24.	8.9	37
31	Folding Wings like a Cockroach: A Review of Transverse Wing Folding Ensign Wasps (Hymenoptera:) Tj ETQq1 1 0.784314 rgBT /Over	2.5	34
32	Phylotastic! Making tree-of-life knowledge accessible, reusable and convenient. BMC Bioinformatics, 2013, 14, 158.	2.6	33
33	A Simple Standard for Sharing Ontological Mappings (SSSOM). Database: the Journal of Biological Databases and Curation, 2022, 2022, .	3.0	23
34	Using the phenoscape knowledgebase to relate genetic perturbations to phenotypic evolution. Genesis, 2015, 53, 561-571.	1.6	19
35	Annotation of phenotypes using ontologies: a gold standard for the training and evaluation of natural language processing systems. Database: the Journal of Biological Databases and Curation, 2018, 2018, .	3.0	19
36	Reactome and the Gene Ontology: digital convergence of data resources. Bioinformatics, 2021, 37, 3343-3348.	4.1	19

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37	A revision of Evaniscus (Hymenoptera, Evaniidae) using ontology-based semantic phenotype annotation. ZooKeys, 2012, 223, 1-38.	1.1	17
38	Annotation of phenotypic diversity: decoupling data curation and ontology curation using Phenex. Journal of Biomedical Semantics, 2014, 5, 45.	1.6	16
39	CharaParser+EQ: Performance evaluation without gold standard. Proceedings of the Association for Information Science and Technology, 2015, 52, 1-10.	0.6	12
40	Transforming the study of organisms: Phenomic data models and knowledge bases. PLoS Computational Biology, 2020, 16, e1008376.	3.2	12
41	Visualization Environment for Federated Knowledge Graphs: Development of an Interactive Biomedical Query Language and Web Application Interface. JMIR Medical Informatics, 2020, 8, e17964.	2.6	12
42	Automated Integration of Trees and Traits: A Case Study Using Paired Fin Loss Across Teleost Fishes. Systematic Biology, 2018, 67, 559-575.	5.6	11
43	A Logical Model of Homology for Comparative Biology. Systematic Biology, 2020, 69, 345-362.	5.6	11
44	Matching arthropod anatomy ontologies to the Hymenoptera Anatomy Ontology: results from a manual alignment. Database: the Journal of Biological Databases and Curation, 2013, 2013, bas057-bas057.	3.0	8
45	Assessing Bayesian Phylogenetic Information Content of Morphological Data Using Knowledge From Anatomy Ontologies. Systematic Biology, 2022, 71, 1290-1306.	5.6	6
46	Muscle Logic: New Knowledge Resource for Anatomy Enables Comprehensive Searches of the Literature on the Feeding Muscles of Mammals. PLoS ONE, 2016, 11, e0149102.	2.5	5
47	Developing a vocabulary and ontology for modeling insect natural history data: example data, use cases, and competency questions. Biodiversity Data Journal, 2019, 7, e33303.	0.8	3
48	INVESTIGATING THE IMPORTANCE OF ANATOMICAL HOMOLOGY FOR CROSS-SPECIES PHENOTYPE COMPARISONS USING SEMANTIC SIMILARITY. , 2016, , .		2
49	A generic bioinformatics pipeline to integrate large-scale trait data with large phylogenies. , 2017, , .		1
50	Scowl: a Scala DSL for programming with the OWL API. Journal of Open Source Software, 2016, 1, 23.	4.6	1