Dennis P Wall

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/11118622/publications.pdf

Version: 2024-02-01

72	4,618	186265 28	128289 60
papers	citations	h-index	g-index

83	83	83	8179
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A framework for the interpretation of de novo mutation in human disease. Nature Genetics, 2014, 46, 944-950.	21.4	943
2	Inherited and De Novo Genetic Risk for Autism Impacts Shared Networks. Cell, 2019, 178, 850-866.e26.	28.9	326
3	Refining the role of de novo protein-truncating variants in neurodevelopmental disorders by using population reference samples. Nature Genetics, 2017, 49, 504-510.	21.4	298
4	Functional genomic analysis of the rates of protein evolution. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5483-5488.	7.1	255
5	Coevolution of gene expression among interacting proteins. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9033-9038.	7.1	221
6	A simple dependence between protein evolution rate and the number of protein-protein interactions. BMC Evolutionary Biology, 2003, 3, 11.	3.2	152
7	Use of Artificial Intelligence to Shorten the Behavioral Diagnosis of Autism. PLoS ONE, 2012, 7, e43855.	2.5	145
8	Effect of Wearable Digital Intervention for Improving Socialization in Children With Autism Spectrum Disorder. JAMA Pediatrics, 2019, 173, 446.	6.2	121
9	Machine learning approach for early detection of autism by combining questionnaire and home video screening. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 1000-1007.	4.4	111
10	Biomedical Cloud Computing With Amazon Web Services. PLoS Computational Biology, 2011, 7, e1002147.	3.2	110
11	Cloud computing for comparative genomics. BMC Bioinformatics, 2010, 11, 259.	2.6	103
12	Roundup: a multi-genome repository of orthologs and evolutionary distances. Bioinformatics, 2006, 22, 2044-2046.	4.1	96
13	Labeling images with facial emotion and the potential for pediatric healthcare. Artificial Intelligence in Medicine, 2019, 98, 77-86.	6.5	78
14	Exploratory study examining the at-home feasibility of a wearable tool for social-affective learning in children with autism. Npj Digital Medicine, 2018, 1, 32.	10.9	73
15	Sparsifying machine learning models identify stable subsets of predictive features for behavioral detection of autism. Molecular Autism, 2017, 8, 65.	4.9	71
16	Human Genome Sequencing at the Population Scale: A Primer on High-Throughput DNA Sequencing and Analysis. American Journal of Epidemiology, 2017, 186, 1000-1009.	3.4	63
17	Data-Driven Diagnostics and the Potential of Mobile Artificial Intelligence for Digital Therapeutic Phenotyping in Computational Psychiatry. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2020, 5, 759-769.	1.5	62
18	Phylogenetic Relationships Within the Haplolepideous Mosses. Bryologist, 2000, 103, 257-276.	0.6	60

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19	Adjusting for Selection on Synonymous Sites in Estimates of Evolutionary Distance. Molecular Biology and Evolution, 2005, 22, 174-177.	8.9	57
20	Clinical Evaluation of a Novel and Mobile Autism Risk Assessment. Journal of Autism and Developmental Disorders, 2016, 46, 1953-1961.	2.7	56
21	Feasibility Testing of a Wearable Behavioral Aid for Social Learning in Children with Autism. Applied Clinical Informatics, 2018, 09, 129-140.	1.7	55
22	The Potential of Accelerating Early Detection of Autism through Content Analysis of YouTube Videos. PLoS ONE, 2014, 9, e93533.	2.5	54
23	Guess What?. Journal of Healthcare Informatics Research, 2019, 3, 43-66.	7.6	50
24	A Mobile Game for Automatic Emotion-Labeling of Images. IEEE Transactions on Games, 2020, 12, 213-218.	1.4	48
25	Genotator: A disease-agnostic tool for genetic annotation of disease. BMC Medical Genomics, 2010, 3, 50.	1.5	47
26	Identification and Quantification of Gaps in Access to Autism Resources in the United States: An Infodemiological Study. Journal of Medical Internet Research, 2019, 21, e13094.	4.3	46
27	Identification of Human Neuronal Protein Complexes Reveals Biochemical Activities and Convergent Mechanisms of Action in Autism Spectrum Disorders. Cell Systems, 2015, 1, 361-374.	6.2	42
28	Cost-Effective Cloud Computing: A Case Study Using the Comparative Genomics Tool, Roundup. Evolutionary Bioinformatics, 2010, 6, EBO.S6259.	1.2	41
29	ORIGIN AND RAPID DIVERSIFICATION OF A TROPICAL MOSS. Evolution; International Journal of Organic Evolution, 2005, 59, 1413-1424.	2.3	37
30	Ortholog Detection Using the Reciprocal Smallest Distance Algorithm. Methods in Molecular Biology, 2007, 396, 95-110.	0.9	37
31	A research roadmap for next-generation sequencing informatics. Science Translational Medicine, 2016, 8, 335ps10.	12.4	37
32	Precision Telemedicine through Crowdsourced Machine Learning: Testing Variability of Crowd Workers for Video-Based Autism Feature Recognition. Journal of Personalized Medicine, 2020, 10, 86.	2.5	37
33	Superpower Glass. GetMobile (New York, N Y), 2019, 23, 35-38.	1.0	30
34	Evaluation of an artificial intelligence-based medical device for diagnosis of autism spectrum disorder. Npj Digital Medicine, 2022, 5, 57.	10.9	29
35	Toward Continuous Social Phenotyping: Analyzing Gaze Patterns in an Emotion Recognition Task for Children With Autism Through Wearable Smart Glasses. Journal of Medical Internet Research, 2020, 22, e13810.	4.3	28
36	Feature replacement methods enable reliable home video analysis for machine learning detection of autism. Scientific Reports, 2020, 10, 21245.	3.3	27

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37	Use of the nuclear gene glyceraldehyde 3-phosphate dehydrogenase for phylogeny reconstruction of recently diverged lineages in Mitthyridium (Musci: Calymperaceae). Molecular Phylogenetics and Evolution, 2002, 25, 10-26.	2.7	26
38	Crowdsourced privacy-preserved feature tagging of short home videos for machine learning ASD detection. Scientific Reports, 2021, 11, 7620.	3.3	26
39	Converging on a general model of protein evolution. Trends in Biotechnology, 2005, 23, 485-487.	9.3	25
40	Cross-disorder comparative analysis of comorbid conditions reveals novel autism candidate genes. BMC Genomics, 2017, 18, 315.	2.8	24
41	Comorbid Analysis of Genes Associated with Autism Spectrum Disorders Reveals Differential Evolutionary Constraints. PLoS ONE, 2016, 11, e0157937.	2.5	24
42	Systems Biology as a Comparative Approach to Understand Complex Gene Expression in Neurological Diseases. Behavioral Sciences (Basel, Switzerland), 2013, 3, 253-272.	2.1	23
43	COSMOS: Python library for massively parallel workflows. Bioinformatics, 2014, 30, 2956-2958.	4.1	23
44	A Mobile Game Platform for Improving Social Communication in Children with Autism: A Feasibility Study. Applied Clinical Informatics, 2021, 12, 1030-1040.	1.7	23
45	Identification of Social Engagement Indicators Associated With Autism Spectrum Disorder Using a Game-Based Mobile App: Comparative Study of Gaze Fixation and Visual Scanning Methods. Journal of Medical Internet Research, 2022, 24, e31830.	4.3	23
46	Autworks: a cross-disease network biology application for Autism and related disorders. BMC Medical Genomics, 2012, 5, 56.	1.5	22
47	Classifying Autism From Crowdsourced Semistructured Speech Recordings: Machine Learning Model Comparison Study. JMIR Pediatrics and Parenting, 2022, 5, e35406.	1.6	21
48	Personalized cloud-based bioinformatics services for research and education: use cases and the elasticHPC package. BMC Bioinformatics, 2012, 13, S22.	2.6	20
49	Scalable and cost-effective NGS genotyping in the cloud. BMC Medical Genomics, 2015, 8, 64.	1.5	19
50	Conservation of theRB1gene in human and primates. Human Mutation, 2005, 25, 396-409.	2.5	18
51	Evolutionary Patterns of Codon Usage in the Chloroplast Gene rbc L. Journal of Molecular Evolution, 2003, 56, 673-688.	1.8	17
52	Using game theory to detect genes involved in Autism Spectrum Disorder. Top, 2011, 19, 121-129.	1.6	17
53	A practical approach to real-time neutral feature subtraction for facial expression recognition. , 2016, , .		17
54	Children with Autism and Their Typically Developing Siblings Differ in Amplicon Sequence Variants and Predicted Functions of Stool-Associated Microbes. MSystems, 2021, 6, .	3.8	16

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55	Training Affective Computer Vision Models by Crowdsourcing Soft-Target Labels. Cognitive Computation, 2021, 13, 1363-1373.	5.2	16
56	The Quantified Brain: A Framework for Mobile Device-Based Assessment of Behavior and Neurological Function. Applied Clinical Informatics, 2016, 07, 290-298.	1.7	15
57	A literature search tool for intelligent extraction of disease-associated genes. Journal of the American Medical Informatics Association: JAMIA, 2014, 21, 399-405.	4.4	13
58	Phylogeny of the Calymperaceae with a rank-free systematic treatment. Bryologist, 2007, 110, 46-73.	0.6	12
59	Can we accelerate autism discoveries through crowdsourcing?. Research in Autism Spectrum Disorders, 2016, 32, 80-83.	1.5	11
60	MC-GenomeKey: a multicloud system for the detection and annotation of genomic variants. BMC Bioinformatics, 2017, 18, 49.	2.6	10
61	Feature Selection and Dimension Reduction of Social Autism Data. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2020, 25, 707-718.	0.7	10
62	Cloud Computing for Comparative Genomics with Windows Azure Platform. Evolutionary Bioinformatics, 2012, 8, EBO.S9946.	1.2	9
63	Estimating sequencing error rates using families. BioData Mining, 2021, 14, 27.	4.0	9
64	Game theoretic centrality: a novel approach to prioritize disease candidate genes by combining biological networks with the Shapley value. BMC Bioinformatics, 2020, 21, 356.	2.6	8
65	The GapMap project: a mobile surveillance system to map diagnosed autism cases and gaps in autism services globally. Molecular Autism, 2017, 8, 55.	4.9	7
66	GapMap: Enabling Comprehensive Autism Resource Epidemiology. JMIR Public Health and Surveillance, 2017, 3, e27.	2.6	6
67	Coalitional Game Theory Facilitates Identification of Non-Coding Variants Associated With Autism. Biomedical Informatics Insights, 2019, 11, 117822261983285.	4.6	4
68	Selection of trustworthy crowd workers for telemedical diagnosis of pediatric autism spectrum disorder. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2021, 26, 14-25.	0.7	4
69	Longitudinal study of stool-associated microbial taxa in sibling pairs with and without autism spectrum disorder. ISME Communications, 2021, 1, .	4.2	3
70	Rising interdisciplinary collaborations refine our understanding of autisms and give hope to more personalized solutions. Personalized Medicine, 2015, 12, 359-369.	1.5	1
71	ORIGIN AND RAPID DIVERSIFICATION OF A TROPICAL MOSS. Evolution; International Journal of Organic Evolution, 2005, 59, 1413.	2.3	0
72	Translational Meta-analytical Methods to Localize the Regulatory Patterns of Neurological Disorders in the Human Brain. AMIA ... Annual Symposium proceedings, 2015, 2015, 2073-82.	0.2	0