

Eugene W Myers

List of Articles by Year in descending order

Source: [//exaly.com/author-pdf/5544836/publications.pdf](https://exaly.com/author-pdf/5544836/publications.pdf)

Version: 2025-02-01

58

PR articles

83,668

PR citations

155871

30

PR h-index

188406

51

g-index

68

documents

92334

doc citations

169055

31

h-index

132253

citing authors

#	ARTICLE	IF	CITATIONS
1	A chromosome-level, haplotype-resolved genome assembly and annotation for the Eurasian minnow (Leuciscidae: Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 742 Td (Phoxinus phoxinus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 742 Td (3.2	3
2	Bat genomes illuminate adaptations to viral tolerance and disease resistance. <i>Nature</i> , 2025, 638, 449-458.	37.9	43
3	A Haplotype-resolved Chromosome-scale Genome Assembly and Annotation for the Leafcutter Ant, <i>Acromyrmex octospinosus</i> . <i>Genome Biology and Evolution</i> , 2025, 17, .	2.4	3
4	Evaluation of sequencing reads at scale using rdeval. <i>Bioinformatics</i> , 2025, 41, .	4.7	1
5	Comparative Genome Microsynteny Illuminates the Fast Evolution of Nuclear Mitochondrial Segments (NUMTs) in Mammals. <i>Molecular Biology and Evolution</i> , 2024, 41, .	4.7	20
6	The genomes of all lungfish inform on genome expansion and tetrapod evolution. <i>Nature</i> , 2024, 634, 96-103.	37.9	39
7	The European Reference Genome Atlas: piloting a decentralised approach to equitable biodiversity genomics. <i>npj Biodiversity</i> , 2024, 3, .	3.7	29
8	Divergent sensory and immune gene evolution in sea turtles with contrasting demographic and life histories. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2023, 120, .	7.5	41
9	Chiropterans Are a Hotspot for Horizontal Transfer of DNA Transposons in Mammalia. <i>Molecular Biology and Evolution</i> , 2023, 40, .	4.7	15
10	Neuronal migration prevents spatial competition in retinal morphogenesis. <i>Nature</i> , 2023, 620, 615-624.	37.9	16
11	Expanded olfactory system in ray-finned fishes capable of terrestrial exploration. <i>BMC Biology</i> , 2023, 21, .	3.9	18
12	Low mutation rate in epaulette sharks is consistent with a slow rate of evolution in sharks. <i>Nature Communications</i> , 2023, 14, .	13.7	28
13	The Earth BioGenome Project 2020: Starting the clock. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.5	279
14	Genome biology of the darkedged splitfin, <i>Girardinichthys multiradiatus</i> , and the evolution of sex chromosomes and placentation. <i>Genome Research</i> , 2022, 32, 583-594.	4.6	15
15	Merfin: improved variant filtering, assembly evaluation and polishing via k-mer validation. <i>Nature Methods</i> , 2022, 19, 696-704.	24.6	59
16	The complete sequence of a human genome. <i>Science</i> , 2022, 376, 44-53.	36.2	2,665
17	Contradictory Phylogenetic Signals in the Laurasiatheria Anomaly Zone. <i>Genes</i> , 2022, 13, 766.	2.5	12
18	Complete vertebrate mitogenomes reveal widespread repeats and gene duplications. <i>Genome Biology</i> , 2021, 22, .	8.1	110

#	ARTICLE	IF	CITATIONS
19	Towards complete and error-free genome assemblies of all vertebrate species. <i>Nature</i> , 2021, 592, 737-746.	37.9	2,566
20	EASI-FISH for thick tissue defines lateral hypothalamus spatio-molecular organization. <i>Cell</i> , 2021, 184, 6361-6377.e24.	33.7	180
21	Six reference-quality genomes reveal evolution of bat adaptations. <i>Nature</i> , 2020, 583, 578-584.	37.9	331
22	Contrasting signatures of genomic divergence during sympatric speciation. <i>Nature</i> , 2020, 588, 106-111.	37.9	167
23	Rapid and ongoing evolution of repetitive sequence structures in human centromeres. <i>Science Advances</i> , 2020, 6, .	10.9	42
24	Finding long tandem repeats in long noisy reads. <i>Bioinformatics</i> , 2020, 37, 612-621.	4.7	11
25	Practical sensorless aberration estimation for 3D microscopy with deep learning. <i>Optics Express</i> , 2020, 28, 29044.	3.0	58
26	Dynamic Polarization of the Multiciliated Planarian Epidermis between Body Plan Landmarks. <i>Developmental Cell</i> , 2019, 51, 526-542.e6.	7.7	31
27	CLIJ: GPU-accelerated image processing for everyone. <i>Nature Methods</i> , 2019, 17, 5-6.	24.6	231
28	The genome of <i>Schmidtea mediterranea</i> and the evolution of core cellular mechanisms. <i>Nature</i> , 2018, 554, 56-61.	37.9	228
29	The axolotl genome and the evolution of key tissue formation regulators. <i>Nature</i> , 2018, 554, 50-55.	37.9	550
30	Bat Biology, Genomes, and the Bat1K Project: To Generate Chromosome-Level Genomes for All Living Bat Species. <i>Annual Review of Animal Biosciences</i> , 2018, 6, 23-46.	7.4	230
31	Content-aware image restoration: pushing the limits of fluorescence microscopy. <i>Nature Methods</i> , 2018, 15, 1090-1097.	24.6	1,114
32	Differential lateral and basal tension drive folding of <i>Drosophila</i> wing discs through two distinct mechanisms. <i>Nature Communications</i> , 2018, 9, .	13.7	149
33	Biobeam™ Multiplexed wave-optical simulations of light-sheet microscopy. <i>PLoS Computational Biology</i> , 2018, 14, e1006079.	3.1	29
34	PreMosa: extracting 2D surfaces from 3D microscopy mosaics. <i>Bioinformatics</i> , 2017, 33, 2563-2569.	4.7	38
35	Cell dynamics underlying oriented growth of the <i>Drosophila</i> wing imaginal disc. <i>Development (Cambridge)</i> , 2017, , .	3.1	104
36	Automated detection and quantification of single RNAs at cellular resolution in zebrafish embryos. <i>Development (Cambridge)</i> , 2016, , .	3.1	34

#	ARTICLE	IF	CITATIONS
37	Adaptive light-sheet microscopy for long-term, high-resolution imaging in living organisms. <i>Nature Biotechnology</i> , 2016, 34, 1267-1278.	29.8	272
38	Constructing 5D developing gene expression patterns without live animal imaging. <i>Biomedical Engineering Letters</i> , 2015, 4, 338-346.	2.4	1
39	BlastNeuron for Automated Comparison, Retrieval and Clustering of 3D Neuron Morphologies. <i>Neuroinformatics</i> , 2015, 13, 487-499.	2.6	63
40	ClearVolume: open-source live 3D visualization for light-sheet microscopy. <i>Nature Methods</i> , 2015, 12, 480-481.	24.6	166
41	A Liquid-to-Solid Phase Transition of the ALS Protein FUS Accelerated by Disease Mutation. <i>Cell</i> , 2015, 162, 1066-1077.	33.7	2,909
42	The Balance of Prickle/Spiny-Legs Isoforms Controls the Amount of Coupling between Core and Fat PCP Systems. <i>Current Biology</i> , 2014, 24, 2111-2123.	3.6	72
43	Fast, accurate reconstruction of cell lineages from large-scale fluorescence microscopy data. <i>Nature Methods</i> , 2014, 11, 951-958.	24.6	284
44	Virtual finger boosts three-dimensional imaging and microsurgery as well as terabyte volume image visualization and analysis. <i>Nature Communications</i> , 2014, 5, .	13.7	127
45	Efficient Bayesian-based multiview deconvolution. <i>Nature Methods</i> , 2014, 11, 645-648.	24.6	271
46	Atlas-builder software and the eNeuro atlas: resources for developmental biology and neuroscience. <i>Development (Cambridge)</i> , 2014, 141, 2524-2532.	3.1	40
47	Unsupervised segmentation of noisy electron microscopy images using salient watersheds and region merging. <i>BMC Bioinformatics</i> , 2013, 14, .	3.0	12
48	Fast and robust optical flow for time-lapse microscopy using super-voxels. <i>Bioinformatics</i> , 2013, 29, 373-380.	4.7	51
49	Automated Reconstruction of Neuronal Morphology Based on Local Geometrical and Global Structural Models. <i>Neuroinformatics</i> , 2011, 9, 247-261.	2.6	114
50	Automated tracking and analysis of centrosomes in early <i>Caenorhabditis elegans</i> embryos. <i>Bioinformatics</i> , 2010, 26, i13-i20.	4.7	27
51	Evolution of genes and genomes on the <i>Drosophila</i> phylogeny. <i>Nature</i> , 2007, 450, 203-218.	37.9	1,992
52	Efficient q-Gram Filters for Finding All $\hat{\mu}$ -Matches over a Given Length. <i>Journal of Computational Biology</i> , 2006, 13, 296-308.	1.5	97
53	The fragment assembly string graph. <i>Bioinformatics</i> , 2005, 21, ii79-ii85.	4.7	371
54	Basic local alignment search tool. <i>Journal of Molecular Biology</i> , 1990, 215, 403-410.	4.1	90,426

#	ARTICLE	IF	CITATIONS
55	A platform for brain-wide imaging and reconstruction of individual neurons. <i>ELife</i> , 0, 5, .	1.6	421
56	A tunable refractive index matching medium for live imaging cells, tissues and model organisms. <i>ELife</i> , 0, 6, .	1.6	172
57	Rod nuclear architecture determines contrast transmission of the retina and behavioral sensitivity in mice. <i>ELife</i> , 0, 8, .	1.6	21
58	FastGA: fast genome alignment. <i>Bioinformatics Advances</i> , 0, 5, .	2.4	1