Eugene W Myers

List of Publications by Year
in descending order

47 papers	109,882 citations	186265 28 h-index	254184 43 g-index
65 all docs	65 docs citations	65 times ranked	107984 citing authors

#	Article	IF	Citations
1	Basic local alignment search tool. Journal of Molecular Biology, 1990, 215, 403-410.	4.2	82,180
2	The Sequence of the Human Genome. Science, 2001, 291, 1304-1351.	12.6	12,623
3	The Genome Sequence of <i>Drosophila melanogaster</i>. Science, 2000, 287, 2185-2195.	12.6	5,566
4	A Liquid-to-Solid Phase Transition of the ALS Protein FUS Accelerated by Disease Mutation. Cell, 2015, 162, 1066-1077.	28.9	2,182
5	The complete sequence of a human genome. Science, 2022, 376, 44-53.	12.6	1,222
6	Towards complete and error-free genome assemblies of all vertebrate species. Nature, 2021, 592, 737-746.	27.8	1,139
7	Content-aware image restoration: pushing the limits of fluorescence microscopy. Nature Methods, 2018, 15, 1090-1097.	19.0	758
8	The axolotl genome and the evolution of key tissue formation regulators. Nature, 2018, 554, 50-55.	27.8	463
9	A platform for brain-wide imaging and reconstruction of individual neurons. ELife, 2016, 5, e10566.	6.0	355
10	The fragment assembly string graph. Bioinformatics, 2005, 21, ii79-ii85.	4.1	317
11	Fast, accurate reconstruction of cell lineages from large-scale fluorescence microscopy data. Nature Methods, 2014, 11, 951-958.	19.0	253
12	Efficient Bayesian-based multiview deconvolution. Nature Methods, 2014, 11, 645-648.	19.0	232
13	Adaptive light-sheet microscopy for long-term, high-resolution imaging in living organisms. Nature Biotechnology, 2016, 34, 1267-1278.	17.5	211
14	Six reference-quality genomes reveal evolution of bat adaptations. Nature, 2020, 583, 578-584.	27.8	210
15	The genome of Schmidtea mediterranea and the evolution of core cellular mechanisms. Nature, 2018, 554, 56-61.	27.8	191
16	Bat Biology, Genomes, and the Bat1K Project: To Generate Chromosome-Level Genomes for All Living Bat Species. Annual Review of Animal Biosciences, 2018, 6, 23-46.	7.4	166
17	ClearVolume: open-source live 3D visualization for light-sheet microscopy. Nature Methods, 2015, 12, 480-481.	19.0	141
18	A tunable refractive index matching medium for live imaging cells, tissues and model organisms. ELife, 2017, 6, .	6.0	128

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19	The Earth BioGenome Project 2020: Starting the clock. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	124
20	CLIJ: GPU-accelerated image processing for everyone. Nature Methods, 2020, 17, 5-6.	19.0	122
21	Contrasting signatures of genomic divergence during sympatric speciation. Nature, 2020, 588, 106-111.	27.8	115
22	Virtual finger boosts three-dimensional imaging and microsurgery as well as terabyte volume image visualization and analysis. Nature Communications, 2014, 5, 4342.	12.8	109
23	Differential lateral and basal tension drive folding of Drosophila wing discs through two distinct mechanisms. Nature Communications, 2018, 9, 4620.	12.8	103
24	Cell dynamics underlying oriented growth of the *Drosophila* wing imaginal disc. Development (Cambridge), 2017, 144, 4406-4421.	2.5	84
25	EASI-FISH for thick tissue defines lateral hypothalamus spatio-molecular organization. Cell, 2021, 184, 6361-6377.e24.	28.9	72
26	Complete vertebrate mitogenomes reveal widespread repeats and gene duplications. Genome Biology, 2021, 22, 120.	8.8	69
27	The Balance of Prickle/Spiny-Legs Isoforms Controls the Amount of Coupling between Core and Fat PCP Systems. Current Biology, 2014, 24, 2111-2123.	3.9	67
28	BlastNeuron for Automated Comparison, Retrieval and Clustering of 3D Neuron Morphologies. Neuroinformatics, 2015, 13, 487-499.	2.8	55
29	Large‐scale genome sampling reveals unique immunity and metabolic adaptations in bats. Molecular Ecology, 2021, 30, 6449-6467.	3.9	40
30	Atlas-builder software and the eNeuro atlas: resources for developmental biology and neuroscience. Development (Cambridge), 2014, 141, 2524-2532.	2.5	35
31	PreMosa: extracting 2D surfaces from 3D microscopy mosaics. Bioinformatics, 2017, 33, 2563-2569.	4.1	34
32	Standards recommendations for the Earth BioGenome Project. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	33
33	Automated detection and quantification of single RNAs at cellular resolution in zebrafish embryos. Development (Cambridge), 2015, 143, 540-6.	2.5	32
34	Merfin: improved variant filtering, assembly evaluation and polishing via k-mer validation. Nature Methods, 2022, 19, 696-704.	19.0	30
35	Biobeam—Multiplexed wave-optical simulations of light-sheet microscopy. PLoS Computational Biology, 2018, 14, e1006079.	3.2	26
36	Rapid and ongoing evolution of repetitive sequence structures in human centromeres. Science Advances, 2020, 6, .	10.3	23

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37	AUTOMATIC SEGMENTATION OF NUCLEI IN 3D MICROSCOPY IMAGES OF C.ELEGANS. , 2007, , .		18
38	Rod nuclear architecture determines contrast transmission of the retina and behavioral sensitivity in mice. ELife, 2019, 8, .	6.0	16
39	DENTISTâ€"using long reads for closing assembly gaps at high accuracy. GigaScience, 2022, 11, .	6.4	13
40	Moral Lineage Tracing. , 2016, , .		10
41	3D Neuron Tip Detection in Volumetric Microscopy Images. , 2011, , .		9
42	Genome biology of the darkedged splitfin, <i>Girardinichthys multiradiatus</i>, and the evolution of sex chromosomes and placentation. Genome Research, 2022, 32, 583-594.	5.5	9
43	Contradictory Phylogenetic Signals in the Laurasiatheria Anomaly Zone. Genes, 2022, 13, 766.	2.4	7
44	Efficient Algorithms for Moral Lineage Tracing. , 2017, , .		6
45	Finding long tandem repeats in long noisy reads. Bioinformatics, 2021, 37, 612-621.	4.1	4
46	Constructing 5D developing gene expression patterns without live animal imaging. Biomedical Engineering Letters, 2014, 4, 338-346.	4.1	1
47	STRAIGHTENING WORM IMAGES. , 2007, , .		0