Eugene W Myers

List of Publications by Year
in descending order

47 papers	109,882 citations	212478 28 h-index	286692 43 g-index
65 all docs	65 docs citations	65 times ranked	119795 citing authors

#	Article	IF	Citations
1	The Earth BioGenome Project 2020: Starting the clock. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	124
2	Genome biology of the darkedged splitfin, *Girardinichthys multiradiatus*, and the evolution of sex chromosomes and placentation. Genome Research, 2022, 32, 583-594.	2.4	9
3	Standards recommendations for the Earth BioGenome Project. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	33
4	Merfin: improved variant filtering, assembly evaluation and polishing via k-mer validation. Nature Methods, 2022, 19, 696-704.	9.0	30
5	The complete sequence of a human genome. Science, 2022, 376, 44-53.	6.0	1,222
6	DENTISTâ€"using long reads for closing assembly gaps at high accuracy. GigaScience, 2022, 11, .	3.3	13
7	Contradictory Phylogenetic Signals in the Laurasiatheria Anomaly Zone. Genes, 2022, 13, 766.	1.0	7
8	Finding long tandem repeats in long noisy reads. Bioinformatics, 2021, 37, 612-621.	1.8	4
9	Complete vertebrate mitogenomes reveal widespread repeats and gene duplications. Genome Biology, 2021, 22, 120.	3.8	69
10	Towards complete and error-free genome assemblies of all vertebrate species. Nature, 2021, 592, 737-746.	13.7	1,139
11	Largeâ€scale genome sampling reveals unique immunity and metabolic adaptations in bats. Molecular Ecology, 2021, 30, 6449-6467.	2.0	40
12	EASI-FISH for thick tissue defines lateral hypothalamus spatio-molecular organization. Cell, 2021, 184, 6361-6377.e24.	13.5	72
13	CLIJ: GPU-accelerated image processing for everyone. Nature Methods, 2020, 17, 5-6.	9.0	122
14	Six reference-quality genomes reveal evolution of bat adaptations. Nature, 2020, 583, 578-584.	13.7	210
15	Contrasting signatures of genomic divergence during sympatric speciation. Nature, 2020, 588, 106-111.	13.7	115
16	Rapid and ongoing evolution of repetitive sequence structures in human centromeres. Science Advances, 2020, 6, .	4.7	23
17	Rod nuclear architecture determines contrast transmission of the retina and behavioral sensitivity in mice. ELife, 2019, 8, .	2.8	16
18	The genome of Schmidtea mediterranea and the evolution of core cellular mechanisms. Nature, 2018, 554, 56-61.	13.7	191

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19	The axolotl genome and the evolution of key tissue formation regulators. Nature, 2018, 554, 50-55.	13.7	463
20	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.	3.6	166
21	Content-aware image restoration: pushing the limits of fluorescence microscopy. Nature Methods, 2018, 15, 1090-1097.	9.0	758
22	Differential lateral and basal tension drive folding of Drosophila wing discs through two distinct mechanisms. Nature Communications, 2018, 9, 4620.	5.8	103
23	Biobeamâ€"Multiplexed wave-optical simulations of light-sheet microscopy. PLoS Computational Biology, 2018, 14, e1006079.	1.5	26
24	PreMosa: extracting 2D surfaces from 3D microscopy mosaics. Bioinformatics, 2017, 33, 2563-2569.	1.8	34
25	Cell dynamics underlying oriented growth of the<i>Drosophila</i>wing imaginal disc. Development (Cambridge), 2017, 144, 4406-4421.	1.2	84
26	Efficient Algorithms for Moral Lineage Tracing. , 2017, , .		6
27	A tunable refractive index matching medium for live imaging cells, tissues and model organisms. ELife, 2017, 6, .	2.8	128
28	Moral Lineage Tracing. , 2016, , .		10
29	Adaptive light-sheet microscopy for long-term, high-resolution imaging in living organisms. Nature Biotechnology, 2016, 34, 1267-1278.	9.4	211
30	A platform for brain-wide imaging and reconstruction of individual neurons. ELife, 2016, 5, e10566.	2.8	355
31	BlastNeuron for Automated Comparison, Retrieval and Clustering of 3D Neuron Morphologies. Neuroinformatics, 2015, 13, 487-499.	1.5	55
32	ClearVolume: open-source live 3D visualization for light-sheet microscopy. Nature Methods, 2015, 12, 480-481.	9.0	141
33	Automated detection and quantification of single RNAs at cellular resolution in zebrafish embryos. Development (Cambridge), 2015, 143, 540-6.	1.2	32
34	A Liquid-to-Solid Phase Transition of the ALS Protein FUS Accelerated by Disease Mutation. Cell, 2015, 162, 1066-1077.	13.5	2,182
35	Constructing 5D developing gene expression patterns without live animal imaging. Biomedical Engineering Letters, 2014, 4, 338-346.	2.1	1
36	The Balance of Prickle/Spiny-Legs Isoforms Controls the Amount of Coupling between Core and Fat PCP Systems. Current Biology, 2014, 24, 2111-2123.	1.8	67

#	ARTICLE	IF	CITATIONS
37	Fast, accurate reconstruction of cell lineages from large-scale fluorescence microscopy data. Nature Methods, 2014, 11, 951-958.	9.0	253
38	Virtual finger boosts three-dimensional imaging and microsurgery as well as terabyte volume image visualization and analysis. Nature Communications, 2014, 5, 4342.	5.8	109
39	Efficient Bayesian-based multiview deconvolution. Nature Methods, 2014, 11, 645-648.	9.0	232
40	Atlas-builder software and the eNeuro atlas: resources for developmental biology and neuroscience. Development (Cambridge), 2014, 141, 2524-2532.	1.2	35
41	3D Neuron Tip Detection in Volumetric Microscopy Images. , 2011, , .		9
42	STRAIGHTENING WORM IMAGES. , 2007, , .		0
43	AUTOMATIC SEGMENTATION OF NUCLEI IN 3D MICROSCOPY IMAGES OF C.ELEGANS. , 2007, , .		18
44	The fragment assembly string graph. Bioinformatics, 2005, 21, ii79-ii85.	1.8	317
45	The Sequence of the Human Genome. Science, 2001, 291, 1304-1351.	6.0	12,623
46	The Genome Sequence of Drosophila melanogaster. Science, 2000, 287, 2185-2195.	6.0	5,566
47	Basic local alignment search tool. Journal of Molecular Biology, 1990, 215, 403-410.	2.0	82,180