Asher D Cutter

List of Publications by Year
in descending order

92	5,414	66343	106344
papers	citations	42 h-index	65 g-index

115	115	115	5158
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Genomic signatures of selection at linked sites: unifying the disparity among species. Nature Reviews Genetics, 2013, 14, 262-274.	16.3	435
2	Divergence Times in Caenorhabditis and Drosophila Inferred from Direct Estimates of the Neutral Mutation Rate. Molecular Biology and Evolution, 2008, 25, 778-786.	8.9	220
3	INBREEDING AND OUTBREEDING DEPRESSION IN CAENORHABDITIS NEMATODES. Evolution; International Journal of Organic Evolution, 2007, 61, 1339-1352.	2.3	179
4	The polymorphic prelude to Batesonâ€“Dobzhanskyâ€“Muller incompatibilities. Trends in Ecology and Evolution, 2012, 27, 209-218.	8.7	163
5	Nucleotide Polymorphism and Linkage Disequilibrium in Wild Populations of the Partial Selfer Caenorhabditis elegans. Genetics, 2006, 172, 171-184.	2.9	154
6	Comparative validation of the D. melanogaster modENCODE transcriptome annotation. Genome Research, 2014, 24, 1209-1223.	5.5	147
7	A Streamlined System for Species Diagnosis in Caenorhabditis (Nematoda: Rhabditidae) with Name Designations for 15 Distinct Biological Species. PLoS ONE, 2014, 9, e94723.	2.5	140
8	Insect herbivory, plant defense, and early Cenozoic climate change. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 6221-6226.	7.1	135
9	Selection at Linked Sites in the Partial Selfer Caenorhabditis elegans. Molecular Biology and Evolution, 2003, 20, 665-673.	8.9	125
10	Ants as bioindicators of habitat disturbance: validation of the functional group model for Australia's humid tropics. Biodiversity and Conservation, 1998, 7, 1627-1638.	2.6	120
11	High Nucleotide Polymorphism and Rapid Decay of Linkage Disequilibrium in Wild Populations of Caenorhabditis remanei. Genetics, 2006, 174, 901-913.	2.9	112
12	Evolution of the Caenorhabditis elegans Genome. Molecular Biology and Evolution, 2009, 26, 1199-1234.	8.9	109
13	Fossil leaf economics quantified: calibration, Eocene case study, and implications. Paleobiology, 2007, 33, 574-589.	2.0	107
14	Sexual and Temporal Dynamics of Molecular Evolution in C. elegans Development. Molecular Biology and Evolution, 2005, 22, 178-188.	8.9	103
15	Reproductive Mode and the Evolution of Genome Size and Structure in Caenorhabditis Nematodes. PLoS Genetics, 2015, 11, e1005323.	3.5	102
16	Rapid genome shrinkage in a self-fertile nematode reveals sperm competition proteins. Science, 2018, 359, 55-61.	12.6	102
17	Patterns of Nucleotide Polymorphism Distinguish Temperate and Tropical Wild Isolates of Caenorhabditis briggsae. Genetics, 2006, 173, 2021-2031.	2.9	100
18	Full-genome evolutionary histories of selfing, splitting, and selection in Caenorhabditis. Genome Research, 2015, 25, 667-678.	5.5	92

#	Article	IF	Citations
19	Molecular hyperdiversity defines populations of the nematode Caenorhabditis brenneri. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11056-11060.	7.1	90
20	Searching for Evidence of Positive Selection in the Human Genome Using Patterns of Microsatellite Variability. Molecular Biology and Evolution, 2002, 19, 1143-1153.	8.9	89
21	Patterns of Molecular Evolution in Caenorhabditis Preclude Ancient Origins of Selfing. Genetics, 2008, 178, 2093-2104.	2.9	87
22	The Evolution of Biased Codon and Amino Acid Usage in Nematode Genomes. Molecular Biology and Evolution, 2006, 23, 2303-2315.	8.9	84
23	Natural selection shapes nucleotide polymorphism across the genome of the nematode Caenorhabditis briggsae. Genome Research, 2010, 20, 1103-1111.	5.5	78
24	Hakuna Nematoda: genetic and phenotypic diversity in African isolates of Caenorhabditis elegans and C. briggsae. Heredity, 2008, 100, 304-315.	2.6	77
25	Reproductive transitions in plants and animals: selfing syndrome, sexual selection and speciation. New Phytologist, 2019, 224, 1080-1094.	7.3	74
26	Species richness, distribution and genetic diversity of Caenorhabditis nematodes in a remote tropical rainforest. BMC Evolutionary Biology, 2013, 13, 10.	3.2	71
27	TEMPERATURE-DEPENDENT FECUNDITY ASSOCIATES WITH LATITUDE IN CAENORHABDITIS BRIGGSAE. Evolution; International Journal of Organic Evolution, 2011, 65, 52-63.	2.3	69
28	Molecular hyperdiversity and evolution in very large populations. Molecular Ecology, 2013, 22, 2074-2095.	3.9	67
29	Ephemeral ecological speciation and the latitudinal biodiversity gradient. Evolution; International Journal of Organic Evolution, 2016, 70, 2171-2185.	2.3	65
30	Integrating phylogenetics, phylogeography and population genetics through genomes and evolutionary theory. Molecular Phylogenetics and Evolution, 2013, 69, 1172-1185.	2.7	63
31	Intense Sperm-Mediated Sexual Conflict Promotes Reproductive Isolation in Caenorhabditis Nematodes. PLoS Biology, 2014, 12, e1001915.	5.6	61
32	Caenorhabditis evolution in the wild. BioEssays, 2015, 37, 983-995.	2.5	59
33	GENETIC VARIATION FOR POSTZYGOTIC REPRODUCTIVE ISOLATION BETWEEN CAENORHABDITIS BRIGGSAE AND CAENORHABDITIS SP. 9. Evolution; International Journal of Organic Evolution, 2012, 66, 1180-1195.	2.3	58
34	The Kin Composition of Social Groups: Trading Group Size for Degree of Altruism. American Naturalist, 2004, 164, 132-144.	2.1	55
35	OUTBREEDING DEPRESSION WITH LOW GENETIC VARIATION IN SELFINGCAENORHABDITISNEMATODES. Evolution; International Journal of Organic Evolution, 2013, 67, 3087-3101.	2.3	55
36	Global Population Genetic Structure of Caenorhabditis remanei Reveals Incipient Speciation. Genetics, 2012, 191, 1257-1269.	2.9	53

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37	Mutation and the experimental evolution of outcrossing in Caenorhabditis elegans. Journal of Evolutionary Biology, 2005, 18, 27-34.	1.7	52
38	MainstreamingCaenorhabditis elegansin experimental evolution. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20133055.	2.6	52
39	Specialist versus generalist life histories and nucleotide diversity inCaenorhabditisnematodes. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20132858.	2.6	51
40	Precise, highly femaleâ€“biased sex ratios in a social spider. Proceedings of the Royal Society B: Biological Sciences, 2000, 267, 1445-1449.	2.6	50
41	Population frequencies of transposable elements in selfing and outcrossingCaenorhabditisnematodes. Genetical Research, 2008, 90, 317-329.	0.9	50
42	Males, Outcrossing, and Sexual Selection in Caenorhabditis Nematodes. Genetics, 2019, 213, 27-57.	2.9	49
43	Selection Intensity on Preferred Codons Correlates with Overall Codon Usage Bias in Caenorhabditis remanei. Current Biology, 2006, 16, 2053-2057.	3.9	48
44	Clustered Organization of Reproductive Genes in the C. elegans Genome. Current Biology, 2004, 14, 1284-1290.	3.9	47
45	GENE DUPLICATION IN THE EVOLUTION OF SEXUAL DIMORPHISM. Evolution; International Journal of Organic Evolution, 2012, 66, 1556-1566.	2.3	47
46	SPERM-LIMITED FECUNDITY IN NEMATODES: HOW MANY SPERM ARE ENOUGH?. Evolution; International Journal of Organic Evolution, 2004, 58, 651-655.	2.3	46
47	Integrating patterns of polymorphism at SNPs and STRs. Trends in Genetics, 2006, 22, 424-429.	6.7	45
48	Germline Expression Influences Operon Organization in theCaenorhabditis elegansGenome. Genetics, 2009, 181, 1219-1228.	2.9	40
49	On the potential for extinction by Muller's Ratchet in Caenorhabditis elegans. BMC Evolutionary Biology, 2008, 8, 125.	3.2	38
50	Comparative functional characterization of the CSR-1 22G-RNA pathway in Caenorhabditis nematodes. Nucleic Acids Research, 2015, 43, 208-224.	14.5	38
51	Molecular population genetics and phenotypic sensitivity to ethanol for a globally diverse sample of the nematodeCaenorhabditis briggsae. Molecular Ecology, 2010, 19, 798-809.	3.9	37
52	Rates of deleterious mutation and the evolution of sex in Caenorhabditis. Journal of Evolutionary Biology, 2003, 16, 812-822.	1.7	36
53	The proximate determinants of sex ratio in C. elegans populations. Genetical Research, 2003, 81, 91-102.	0.9	36
54	Polymorphism, Divergence, and the Role of Recombination in Saccharomyces cerevisiae Genome Evolution. Molecular Biology and Evolution, 2011, 28, 1745-1754.	8.9	36

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55	Population Ecology, Nonlinear Dynamics, and Social Evolution. I. Associations among Nonrelatives. American Naturalist, 2002, 159, 115-127.	2.1	35
56	Reproductive Evolution: Symptom of a Selfing Syndrome. Current Biology, 2008, 18, R1056-R1058.	3.9	34
57	Ephemeral-habitat colonization and neotropical species richness of Caenorhabditis nematodes. BMC Ecology, 2017, 17, 43.	3.0	34
58	Gametic selection, developmental trajectories, and extrinsic heterogeneity in Haldane's rule. Evolution; International Journal of Organic Evolution, 2015, 69, 2005-2017.	2.3	32
59	Widespread misregulation of inter-species hybrid transcriptomes due to sex-specific and sex-chromosome regulatory evolution. PLoS Genetics, 2021, 17, e1009409.	3.5	31
60	Heritable determinants of male fertilization success in the nematode Caenorhabditis elegans. BMC Evolutionary Biology, 2011, 11, 99.	3.2	30
61	Molecular Correlates of Genes Exhibiting RNAi Phenotypes in Caenorhabditis elegans. Genome Research, 2003, 13, 2651-2657.	5.5	28
62	SPERM-LIMITED FECUNDITY IN NEMATODES: HOW MANY SPERM ARE ENOUGH?. Evolution; International Journal of Organic Evolution, 2004, 58, 651.	2.3	26
63	Multilocus Patterns of Polymorphism and Selection Across the X Chromosome of Caenorhabditis remanei. Genetics, 2008, 178, 1661-1672.	2.9	25
64	Speciation and the developmental alarm clock. ELife, 2020, 9, .	6.0	25
65	Sperm-limited fecundity in nematodes: how many sperm are enough?. Evolution; International Journal of Organic Evolution, 2004, 58, 651-5.	2.3	25
66	Influence of finiteâ€sites mutation, population subdivision and sampling schemes on patterns of nucleotide polymorphism for species with molecular hyperdiversity. Molecular Ecology, 2012, 21, 1345-1359.	3.9	24
67	Genetic basis to hybrid inviability is more complex than hybrid male sterility in Caenorhabditis nematodes. Heredity, 2018, 121, 169-182.	2.6	24
68	Gonad morphogenesis defects drive hybrid male sterility in asymmetric hybrid breakdown of Caenorhabditis nematodes. Evolution & Development, 2014, 16, 362-372.	2.0	23
69	Convergent evolution of sperm gigantism and the developmental origins of sperm size variability inCaenorhabditisnematodes. Evolution; International Journal of Organic Evolution, 2016, 70, 2485-2503.	2.3	23
70	Experimental evolution of sperm count in protandrous self-fertilizing hermaphrodites. Journal of Experimental Biology, 2011, 214, 1740-1747.	1.7	21
71	Transposable Element Orientation Bias in the Drosophila melanogaster Genome. Journal of Molecular Evolution, 2005, 61, 733-741.	1.8	18
72	Extremely high molecular diversity within the East Asian nematode Caenorhabditis sp. 5. Molecular Ecology, 2010, 19, 5022-5029.	3.9	18

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73	X exceptionalism in Caenorhabditis speciation. Molecular Ecology, 2018, 27, 3925-3934.	3.9	18
74	Fine-Scale Signatures of Molecular Evolution Reconcile Models of Indel-Associated Mutation. Genome Biology and Evolution, 2013, 5, 978-986.	2.5	17
75	When natural selection gives gene function the cold shoulder. BioEssays, 2015, 37, 1169-1173.	2.5	17
76	The Evolutionary Dynamics of Operon Distributions in Eukaryote Genomes. Genetics, 2010, 185, 685-693.	2.9	16
77	MicroRNA Sequence Variation Potentially Contributes to Within-Species Functional Divergence in the Nematode Caenorhabditis briggsae. Genetics, 2011, 189, 967-976.	2.9	16
78	Temperature-dependent behaviours are genetically variable in the nematode Caenorhabditis briggsae. Journal of Experimental Biology, 2013, 216, 850-8.	1.7	16
79	Molecular evolution across developmental time reveals rapid divergence in early embryogenesis. Evolution Letters, 2019, 3, 359-373.	3.3	16
80	Neuro-genetic plasticity of Caenorhabditis elegans behavioral thermal tolerance. BMC Neuroscience, 2019, 20, 26.	1.9	16
81	Microevolution of Nematode miRNAs Reveals Diverse Modes of Selection. Genome Biology and Evolution, 2014, 6, 3049-3063.	2.5	15
82	A Recent Global Selective Sweep on theage-1Phosphatidylinositol 3-OH Kinase Regulator of the Insulin-Like Signaling Pathway WithinCaenorhabditis remanei. G3: Genes, Genomes, Genetics, 2014, 4, 1123-1133.	1.8	12
83	Postcopulatory Sexual Selection Reduces Genetic Diversity in Experimental Populations of Caenorhabditis elegans. Journal of Heredity, 2006, 98, 67-72.	2.4	10
84	Genome structure predicts modular transcriptome responses to genetic and environmental conditions. Molecular Ecology, 2019, 28, 3681-3697.	3.9	10
85	Demographic consequences of reproductive interference in multi-species communities. BMC Ecology, 2018, 18, 46.	3.0	9
86	The distribution of mutational effects on fitness in Caenorhabditis elegans inferred from standing genetic variation. Genetics, 2022, 220, .	2.9	9
87	Genetically Distinct Behavioral Modules Underlie Natural Variation in Thermal Performance Curves. G3: Genes, Genomes, Genetics, 2019, 9, 2135-2151.	1.8	8
88	Genetic Contributions to Ectopic Sperm Cell Migration in Caenorhabditis Nematodes. G3: Genes, Genomes, Genetics, 2018, 8, 3891-3902.	1.8	7
89	Hitting two birds with one stone: The unforeseen consequences of nested gene knockouts inCaenorhabditis elegans. Worm, 2016, 5, e1156835.	1.0	3
90	Repeatability, ephemerality and inconvenient truths in the speciation process. Molecular Ecology, 2015, 24, 1643-1644.	3.9	2

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91	Comparative genomic analysis of upstream miRNA regulatory motifs in Caenorhabditis. Rna, 2016, 22, 968-978.	3.5	2
92	Molecular evolution inferences from the C. elegans genome. WormBook, 2010, , 1-14.	5.3	2