Stephen Richards

List of Publications by Year in descending order

70 papers	19,712 citations	61857 43 h-index	74018 75 g-index
84 all docs	84 docs citations	84 times ranked	21685 citing authors

#	Article	IF	Citations
1	The Genome Sequence of Drosophila melanogaster. Science, 2000, 287, 2185-2195.	6.0	5,566
2	The Drosophila melanogaster Genetic Reference Panel. Nature, 2012, 482, 173-178.	13.7	1,756
3	The genome of the model beetle and pest Tribolium castaneum. Nature, 2008, 452, 949-955.	13.7	1,255
4	Butterfly genome reveals promiscuous exchange of mimicry adaptations among species. Nature, 2012, 487, 94-98.	13.7	1,086
5	Mind the Gap: Upgrading Genomes with Pacific Biosciences RS Long-Read Sequencing Technology. PLoS ONE, 2012, 7, e47768.	1.1	896
6	Widespread Lateral Gene Transfer from Intracellular Bacteria to Multicellular Eukaryotes. Science, 2007, 317, 1753-1756.	6.0	693
7	Earth BioGenome Project: Sequencing life for the future of life. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4325-4333.	3.3	652
8	Assemblathon 2: evaluating de novo methods of genome assembly in three vertebrate species. GigaScience, 2013, 2, 10.	3.3	582
9	Natural variation in genome architecture among 205 Drosophila melanogaster Genetic Reference Panel lines. Genome Research, 2014, 24, 1193-1208.	2.4	565
10	Comparative genome sequencing of Drosophila pseudoobscura: Chromosomal, gene, and cis-element evolution. Genome Research, 2005, 15, 1-18.	2.4	453
11	Epistasis dominates the genetic architecture of Drosophila quantitative traits. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15553-15559.	3.3	348
12	The genomes of two key bumblebee species with primitive eusocial organization. Genome Biology, 2015, 16, 76.	3.8	330
13	The house spider genome reveals an ancient whole-genome duplication during arachnid evolution. BMC Biology, 2017, 15, 62.	1.7	286
14	Genome of the Asian longhorned beetle (Anoplophora glabripennis), a globally significant invasive species, reveals key functional and evolutionary innovations at the beetleâ€“plant interface. Genome Biology, 2016, 17, 227.	3.8	244
15	Genomic innovations, transcriptional plasticity and gene loss underlying the evolution and divergence of two highly polyphagous and invasive Helicoverpa pest species. BMC Biology, 2017, 15, 63.	1.7	238
16	Phylogenomic analysis reveals bees and wasps (Hymenoptera) at the base of the radiation of Holometabolous insects. Genome Research, 2006, 16, 1334-1338.	2.4	233
17	Hemimetabolous genomes reveal molecular basis of termite eusociality. Nature Ecology and Evolution, 2018, 2, 557-566.	3.4	223
18	The First Myriapod Genome Sequence Reveals Conservative Arthropod Gene Content and Genome Organisation in the Centipede Strigamia maritima. PLoS Biology, 2014, 12, e1002005.	2.6	221

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19	Hemichordate genomes and deuterostome origins. Nature, 2015, 527, 459-465.	13.7	217
20	A model species for agricultural pest genomics: the genome of the Colorado potato beetle, Leptinotarsa decemlineata (Coleoptera: Chrysomelidae). Scientific Reports, 2018, 8, 1931.	1.6	215
21	Polytene Chromosomal Maps of 11 Drosophila Species: The Order of Genomic Scaffolds Inferred From Genetic and Physical Maps. Genetics, 2008, 179, 1601-1655.	1.2	191
22	Using Whole-Genome Sequence Data to Predict Quantitative Trait Phenotypes in Drosophila melanogaster. PLoS Genetics, 2012, 8, e1002685.	1.5	191
23	Unique features of a global human ectoparasite identified through sequencing of the bed bug genome. Nature Communications, 2016, 7, 10165.	5.8	184
24	Parallel Histories of Horizontal Gene Transfer Facilitated Extreme Reduction of Endosymbiont Genomes in Sap-Feeding Insects. Molecular Biology and Evolution, 2014, 31, 857-871.	3.5	180
25	Fine structure of the human FMR1 gene. Human Molecular Genetics, 1993, 2, 1147-1153.	1.4	171
26	A Massive Expansion of Effector Genes Underlies Gall-Formation in the Wheat Pest Mayetiola destructor. Current Biology, 2015, 25, 613-620.	1.8	171
27	Evolutionary History of Chemosensory-Related Gene Families across the Arthropoda. Molecular Biology and Evolution, 2017, 34, 1838-1862.	3.5	157
28	Multifaceted biological insights from a draft genome sequence of the tobacco hornworm moth, Manduca sexta. Insect Biochemistry and Molecular Biology, 2016, 76, 118-147.	1.2	154
29	Gene content evolution in the arthropods. Genome Biology, 2020, 21, 15.	3.8	150
30	Comparative validation of the D. melanogaster modENCODE transcriptome annotation. Genome Research, 2014, 24, 1209-1223.	2.4	147
31	The whole genome sequence of the Mediterranean fruit fly, Ceratitis capitata (Wiedemann), reveals insights into the biology and adaptive evolution of a highly invasive pest species. Genome Biology, 2016, 17, 192.	3.8	130
32	Diversity and evolution of the transposable element repertoire in arthropods with particular reference to insects. Bmc Ecology and Evolution, 2019, 19, 11.	0.7	129
33	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
34	Molecular evolutionary trends and feeding ecology diversification in the Hemiptera, anchored by the milkweed bug genome. Genome Biology, 2019, 20, 64.	3.8	114
35	Genome Sequencing of the Phytoseiid Predatory MiteMetaseiulus occidentalisReveals Completely AtomizedHoxGenes and Superdynamic Intron Evolution. Genome Biology and Evolution, 2016, 8, 1762-1775.	1.1	102
36	Are feeding preferences and insecticide resistance associated with the size of detoxifying enzyme families in insect herbivores?. Current Opinion in Insect Science, 2016, 13, 70-76.	2.2	80

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37	The Toxicogenome of Hyalella azteca: A Model for Sediment Ecotoxicology and Evolutionary Toxicology. Environmental Science & Technology, 2018, 52, 6009-6022.	4.6	79
38	Lucilia cuprina genome unlocks parasitic fly biology to underpin future interventions. Nature Communications, 2015, 6, 7344.	5.8	67
39	Best practices in insect genome sequencing: what works and what doesnâ€™t. Current Opinion in Insect Science, 2015, 7, 1-7.	2.2	65
40	Improved annotation of the insect vector of citrus greening disease: biocuration by a diverse genomics community. Database: the Journal of Biological Databases and Curation, 2017, 2017, .	1.4	62
41	Genomics of Natural Populations: How Differentially Expressed Genes Shape the Evolution of Chromosomal Inversions in Drosophila pseudoobscura. Genetics, 2016, 204, 287-301.	1.2	61
42	Brown marmorated stink bug, Halyomorpha halys (StÃ¥l), genome: putative underpinnings of polyphagy, insecticide resistance potential and biology of a top worldwide pest. BMC Genomics, 2020, 21, 227.	1.2	60
43	House spider genome uncovers evolutionary shifts in the diversity and expression of black widow venom proteins associated with extreme toxicity. BMC Genomics, 2017, 18, 178.	1.2	57
44	Comparative genomics of the miniature wasp and pest control agent Trichogramma pretiosum. BMC Biology, 2018, 16, 54.	1.7	57
45	Comparative Genomics of a Parthenogenesis-Inducing Wolbachia Symbiont. G3: Genes, Genomes, Genetics, 2016, 6, 2113-2123.	0.8	56
46	Genome-enabled insights into the biology of thrips as crop pests. BMC Biology, 2020, 18, 142.	1.7	54
47	Genomic Signatures of Cooperation and Conflict in the Social Amoeba. Current Biology, 2015, 25, 1661-1665.	1.8	51
48	The genome of the water strider Gerris buenoi reveals expansions of gene repertoires associated with adaptations to life on the water. BMC Genomics, 2018, 19, 832.	1.2	47
49	The maternal-effect, selfish genetic element Medea is associated with a composite Tc1 transposon. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10085-10089.	3.3	43
50	Avirulence gene mapping in the Hessian fly (Mayetiola destructor) reveals a protein phosphatase 2C effector gene family. Journal of Insect Physiology, 2016, 84, 22-31.	0.9	43
51	It's more than stamp collecting: how genome sequencing can unify biological research. Trends in Genetics, 2015, 31, 411-421.	2.9	37
52	Genomics of natural populations: Evolutionary forces that establish and maintain gene arrangements in Drosophila pseudoobscura. Molecular Ecology, 2017, 26, 6539-6562.	2.0	37
53	Comparative Genomics of Two Closely RelatedWolbachiawith Different Reproductive Effects on Hosts. Genome Biology and Evolution, 2016, 8, 1526-1542.	1.1	35
54	Comparative genomic study of arachnid immune systems indicates loss of betaâ€1,3â€glucanaseâ€related proteins and theÂimmune deficiency pathway. Journal of Evolutionary Biology, 2016, 29, 277-291.	0.8	34

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55	Fine-Scale Mapping of the Nasonia Genome to Chromosomes Using a High-Density Genotyping Microarray. G3: Genes, Genomes, Genetics, 2013, 3, 205-215.	0.8	33
56	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
57	Genomes of Diptera. Current Opinion in Insect Science, 2018, 25, 116-124.	2.2	26
58	A blow to the fly â€" Lucilia cuprina draft genome and transcriptome to support advances in biology and biotechnology. Biotechnology Advances, 2016, 34, 605-620.	6.0	23
59	The value of new genome references. Experimental Cell Research, 2017, 358, 433-438.	1.2	19
60	Deep sequencing and genome-wide analysis reveals the expansion of MicroRNA genes in the gall midge Mayetiola destructor. BMC Genomics, 2013, 14, 187.	1.2	17
61	Evidence for Stabilizing Selection on Codon Usage in Chromosomal Rearrangements ofDrosophila pseudoobscura. G3: Genes, Genomes, Genetics, 2014, 4, 2433-2449.	0.8	17
62	Extensive Recombination Suppression and Epistatic Selection Causes Chromosome-Wide Differentiation of a Selfish Sex Chromosome in Drosophila pseudoobscura. Genetics, 2020, 216, 205-226.	1.2	17
63	Sawfly Genomes Reveal Evolutionary Acquisitions That Fostered the Mega-Radiation of Parasitoid and Eusocial Hymenoptera. Genome Biology and Evolution, 2020, 12, 1099-1188.	1.1	17
64	Full disclosure: Genome assembly is still hard. PLoS Biology, 2018, 16, e2005894.	2.6	16
65	Expansions of key protein families in the German cockroach highlight the molecular basis of its remarkable success as a global indoor pest. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2018, 330, 254-264.	0.6	15
66	Editorial overview: Insect genomics: Arthropod genomic resources for the 21st century. Current Opinion in Insect Science, 2018, 25, iv-vii.	2.2	9
67	Loss of the Polyketide Synthase StlB Results in Stalk Cell Overproduction in Polysphondylium violaceum. Genome Biology and Evolution, 2020, 12, 674-683.	1.1	8
68	Arthropod Genome Sequencing and Assembly Strategies. Methods in Molecular Biology, 2019, 1858, 1-14.	0.4	7
69	The Battle Against Flystrike â€" Past Research and New Prospects Through Genomics. Advances in Parasitology, 2017, 98, 227-281.	1.4	6
70	The mitogenome of the bed bug Cimex lectularius (Hemiptera: Cimicidae). Mitochondrial DNA Part B: Resources, 2016, 1, 425-427.	0.2	5