J Spencer Johnston

List of Publications by Year in descending order

63 papers	7,789 citations	101543 36 h-index	114465 63 g-index
68 all docs	68 docs citations	68 times ranked	10209 citing authors

#	Article	IF	Citations
1	Genome Sequence of Aedes aegypti, a Major Arbovirus Vector. Science, 2007, 316, 1718-1723.	12.6	1,025
2	Natural variation in genome architecture among 205 Drosophila melanogaster Genetic Reference Panel lines. Genome Research, 2014, 24, 1193-1208.	5.5	565
3	Genome sequences of the human body louse and its primary endosymbiont provide insights into the permanent parasitic lifestyle. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12168-12173.	7.1	482
4	Improved reference genome of Aedes aegypti informs arbovirus vector control. Nature, 2018, 563, 501-507.	27.8	426
5	Stick Insect Genomes Reveal Natural Selectionâ€™s Role in Parallel Speciation. Science, 2014, 344, 738-742.	12.6	386
6	Evolution of Genome Size in Brassicaceae. Annals of Botany, 2005, 95, 229-235.	2.9	383
7	Comparisons with Caenorhabditis (100 Mb) and Drosophila (175 Mb) Using Flow Cytometry Show Genome Size in Arabidopsis to be 157 Mb and thus 25 % Larger than the Arabidopsis Genome Initiative Estimate of 125 Mb. Annals of Botany, 2003, 91, 547-557.	2.9	363
8	Evidence for DNA Loss as a Determinant of Genome Size. Science, 2000, 287, 1060-1062.	12.6	345
9	Thrice Out of Africa: Ancient and Recent Expansions of the Honey Bee, Apis mellifera. Science, 2006, 314, 642-645.	12.6	333
10	Linkage Mapping and Comparative Genomics Using Next-Generation RAD Sequencing of a Non-Model Organism. PLoS ONE, 2011, 6, e19315.	2.5	270
11	Reference standards for determination of DNA content of plant nuclei. American Journal of Botany, 1999, 86, 609-613.	1.7	247
12	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.	8.8	244
13	Unique features of a global human ectoparasite identified through sequencing of the bed bug genome. Nature Communications, 2016, 7, 10165.	12.8	184
14	Genome Evolution in the Genus Sorghum (Poaceae). Annals of Botany, 2005, 95, 219-227.	2.9	167
15	Feast and famine in plant genomes. Genetica, 2002, 115, 37-47.	1.1	135
16	Compact genome of the Antarctic midge is likely an adaptation to an extreme environment. Nature Communications, 2014, 5, 4611.	12.8	128
17	Genome size and environmental factors in the genus Pinus. American Journal of Botany, 1993, 80, 1235-1241.	1.7	124
18	COMPARISON OF PLANT DNA CONTENTS DETERMINED BY FEULGEN MICROSPECTROPHOTOMETRY AND LASER FLOW CYTOMETRY. American Journal of Botany, 1991, 78, 183-188.	1.7	120

#	Article	IF	Citations
19	New genome size estimates of 134 species of arthropods. Chromosome Research, 2011, 19, 809-823.	2.2	119
20	Molecular evolutionary trends and feeding ecology diversification in the Hemiptera, anchored by the milkweed bug genome. Genome Biology, 2019, 20, 64.	8.8	114
21	A Genetic Linkage Map of the Mimetic Butterfly Heliconius melpomene. Genetics, 2005, 171, 557-570.	2.9	111
22	Genome Size Determination Using Flow Cytometry of Propidium Iodide-Stained Nuclei. Methods in Molecular Biology, 2012, 772, 3-12.	0.9	104
23	Whole genome sequence of the soybean aphid, Aphis glycines. Insect Biochemistry and Molecular Biology, 2020, 123, 102917.	2.7	91
24	Measuring Genome Sizes Using Read-Depth, k-mers, and Flow Cytometry: Methodological Comparisons in Beetles (Coleoptera). G3: Genes, Genomes, Genetics, 2020, 10, 3047-3060.	1.8	78
25	DNA content of heterochromatin and euchromatin in tomato (Lycopersicon esculentum) pachytene chromosomes. Genome, 1996, 39, 77-82.	2.0	72
26	Anthocyanin Inhibits Propidium Iodide DNA Fluorescence in Euphorbia pulcherrima: Implications for Genome Size Variation and Flow Cytometry. Annals of Botany, 2008, 101, 777-790.	2.9	71
27	The evolution of genome size in ants. BMC Evolutionary Biology, 2008, 8, 64.	3.2	70
28	Variation in genome size of argasid and ixodid ticks. Insect Biochemistry and Molecular Biology, 2007, 37, 399-408.	2.7	66
29	Improved reference genome of the arboviral vector Aedes albopictus. Genome Biology, 2020, 21, 215.	8.8	65
30	Intrapopulation Genome Size Variation in D. melanogaster Reflects Life History Variation and Plasticity. PLoS Genetics, 2014, 10, e1004522.	3.5	64
31	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.	2.8	60
32	Signatures of selection in the <scp>I</scp>berian honey bee (<scp>A</scp>pis mellifera) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 T Ecology, 2013, 22, 5890-5907.	3.9	47
33	Reduced SNP Panels for Genetic Identification and Introgression Analysis in the Dark Honey Bee (Apis) Tj ETQq1 1 0.784314 rgBT /Ov	2.5	46
34	The genome of pest Rhynchophorus ferrugineus reveals gene families important at the plant-beetle interface. Communications Biology, 2020, 3, 323.	4.4	44
35	Genome Size in North American Fireflies: Substantial Variation Likely Driven by Neutral Processes. Genome Biology and Evolution, 2017, 9, 1499-1512.	2.5	41
36	<scp>SNP</scp>s selected by information content outperform randomly selected microsatellite loci for delineating genetic identification and introgression in the endangered dark European honeybee (Apis mellifera mellifera). Molecular Ecology Resources, 2017, 17, 783-795.	4.8	40

#	Article	IF	Citations
37	Preparation of Samples for Comparative Studies of Arthropod Chromosomes: Visualization, In Situ Hybridization, and Genome Size Estimation. Methods in Enzymology, 2005, 395, 460-488.	1.0	39
38	PHYLOGENETIC PLACEMENT, GENOME SIZE, AND GC CONTENT OF THE LIQUIDâ€HYDROCARBONâ€PRODUCING GREEN MICROALGA BOTRYOCOCCUS BRAUNII STRAIN BERKELEY (SHOWA) (CHLOROPHYTA)¹. Journal of Phycology, 2010, 46, 534-540.	2.3	37
39	The canine hookworm genome: Analysis and classification of Ancylostoma caninum survey sequences. Molecular and Biochemical Parasitology, 2008, 157, 187-192.	1.1	36
40	Genome Size Estimation and Quantitative Cytogenetics in Insects. Methods in Molecular Biology, 2019, 1858, 15-26.	0.9	36
41	VARIATION OF NUCLEAR DNA CONTENT IN HELIANTHUS ANNUUS (ASTERACEAE). American Journal of Botany, 1991, 78, 1238-1243.	1.7	33
42	Revisiting the <scp>I</scp>berian honey bee (<scp>A</scp>pis mellifera iberiensis) contact zone: maternal and genomeâ€wide nuclear variations provide support for secondary contact from historical refugia. Molecular Ecology, 2015, 24, 2973-2992.	3.9	31
43	Genome size and phylogenetic analysis of the A and L races of Botryococcus braunii. Journal of Applied Phycology, 2011, 23, 833-839.	2.8	29
44	Body Lice and Head Lice (Anoplura: Pediculidae) Have the Smallest Genomes of Any Hemimetabolous Insect Reported to Date. Journal of Medical Entomology, 2007, 44, 1009-1012.	1.8	27
45	Comparison of long-read sequencing technologies in interrogating bacteria and fly genomes. G3: Genes, Genomes, Genetics, 2021, 11, .	1.8	26
46	Genome size correlates with reproductive fitness in seed beetles. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20151421.	2.6	25
47	Increasing Precision in Development-Based Postmortem Interval Estimates: What's Sex Got to Do With It?. Journal of Medical Entomology, 2013, 50, 425-431.	1.8	23
48	Extremely small genomes in two unrelated dipteran insects with shared early developmental traits. Development Genes and Evolution, 2009, 219, 207-210.	0.9	22
49	Body Lice and Head Lice (Anoplura: Pediculidae) Have the Smallest Genomes of Any Hemimetabolous Insect Reported to Date. Journal of Medical Entomology, 2007, 44, 1009-1012.	1.8	22
50	Environmentally induced nuclear 2C DNA content instability in Helianthus annuus (Asteraceae). American Journal of Botany, 1996, 83, 1113-1120.	1.7	19
51	Lineage-specific patterns of chromosome evolution are the rule not the exception in Polyneoptera insects. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20201388.	2.6	19
52	Endopolyploidy Changes with Age-Related Polyethism in the Honey Bee, Apis mellifera. PLoS ONE, 2015, 10, e0122208.	2.5	18
53	DNA content for Asian pines parallels New World relatives. Canadian Journal of Botany, 2001, 79, 192-196.	1.1	15
54	Comparison of life history and genetic properties of cowpea bruchid strains and their response to hypoxia. Journal of Insect Physiology, 2015, 75, 5-11.	2.0	13

#	Article	IF	Citations
55	The mode and tempo of genome size evolution in the subgenus Sophophora. PLoS ONE, 2017, 12, e0173505.	2.5	13
56	The Genome of Rhyzopertha dominica (Fab.) (Coleoptera: Bostrichidae): Adaptation for Success. Genes, 2022, 13, 446.	2.4	10
57	Genome Size Evolution Differs BetweenDrosophilaSubgenera with Striking Differences in Male and Female Genome Size inSophophora. G3: Genes, Genomes, Genetics, 2019, 9, 3167-3179.	1.8	8
58	DNA Underreplication in the Majority of Nuclei in the Drosophila Melanogaster Thorax: Evidence from Suur and Flow Cytometry. Journal of Molecular Biology Research, 2013, 3, .	0.1	7
59	Inheritance, distribution and genetic differentiation of a color polymorphism in Panamanian populations of the tortoise beetle, Chelymorpha alternans (Coleoptera: Chrysomelidae). Heredity, 2019, 122, 558-569.	2.6	7
60	Effect of Phenotype Selection on Genome Size Variation in Two Species of Diptera. Genes, 2020, 11, 218.	2.4	6
61	Genome Size Evolution within and between the Sexes. Journal of Heredity, 2019, 110, 219-228.	2.4	4
62	Flying Highâ€”Muscle-Specific Underreplication in Drosophila. Genes, 2020, 11, 246.	2.4	4
63	Rapid genomic expansion and purging associated with habitat transitions in a clade of beach crustaceans (Amphipoda: Haustoriidae). Journal of Crustacean Biology, 2021, 41, .	0.8	3