Stephen C Barker

List of Publications by Year
in descending order

76 papers	5,076 citations	109321 35 h-index	91884 69 g-index
77 all docs	77 docs citations	77 times ranked	4218 citing authors

#	Article	IF	Citations
1	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
2	Genomic insights into the Ixodes scapularis tick vector of Lyme disease. Nature Communications, 2016, 7, 10507.	12.8	450
3	Ticks of Australia. The species that infest domestic animals and humans . Zootaxa, 2014, 3816, 1.	0.5	233
4	A mitochondrial genome phylogeny of Diptera: whole genome sequence data accurately resolve relationships over broad timescales with high precision. Systematic Entomology, 2007, 32, 40-59.	3.9	231
5	The Highly Rearranged Mitochondrial Genome of the Plague Thrips, Thrips imaginis (Insecta:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf rRNA Genes. Molecular Biology and Evolution, 2003, 20, 362-370.	8.9	186
6	Phylogenetic analysis of mitochondrial genome sequences indicates that the cattle tick, Rhipicephalus (Boophilus) microplus, contains a cryptic species. Molecular Phylogenetics and Evolution, 2014, 76, 241-253.	2.7	180
7	Numerous Gene Rearrangements in the Mitochondrial Genome of the Wallaby Louse, Heterodoxus macropus (Phthiraptera). Molecular Biology and Evolution, 2001, 18, 858-865.	8.9	167
8	The single mitochondrial chromosome typical of animals has evolved into 18 minichromosomes in the human body louse, Pediculus humanus. Genome Research, 2009, 19, 904-912.	5.5	155
9	Rates of Gene Rearrangement and Nucleotide Substitution Are Correlated in the Mitochondrial Genomes of Insects. Molecular Biology and Evolution, 2003, 20, 1612-1619.	8.9	145
10	Mitochondrial genomics and the new insect order Mantophasmatodea. Molecular Phylogenetics and Evolution, 2006, 38, 274-279.	2.7	138
11	Evolution of Duplicate Control Regions in the Mitochondrial Genomes of Metazoa: A Case Study with Australasian Ixodes Ticks. Molecular Biology and Evolution, 2005, 22, 620-629.	8.9	129
12	Mitochondrial genome data alone are not enough to unambiguously resolve the relationships of Entognatha, Insecta and Crustacea sensu lato (Arthropoda). Cladistics, 2004, 20, 534-557.	3.3	122
13	Increased Rate of Gene Rearrangement in the Mitochondrial Genomes of Three Orders of Hemipteroid Insects. Molecular Biology and Evolution, 2001, 18, 1828-1832.	8.9	98
14	Phylogeny of the Hard Ticks (Ixodidae) Inferred from 18S rRNA Indicates That the GenusAponommals Paraphyletic. Molecular Phylogenetics and Evolution, 1999, 11, 288-295.	2.7	97
15	Synonymy of Boophilus Curtice, 1891 with Rhipicephalus Koch, 1844 (Acari: Ixodidae). Systematic Parasitology, 2003, 56, 169-172.	1.1	96
16	A Total-Evidence Phylogeny of Ticks Provides Insights into the Evolution of Life Cycles and Biogeography. Molecular Phylogenetics and Evolution, 2001, 21, 244-258.	2.7	95
17	Molecular phylogeny of soft ticks (Ixodida: Argasidae) inferred from mitochondrial genome and nuclear rRNA sequences. Ticks and Tick-borne Diseases, 2014, 5, 195-207.	2.7	95
18	Phylogenetic analysis of ticks (Acari: Ixodida) using mitochondrial genomes and nuclear rRNA genes indicates that the genus Amblyomma is polyphyletic. Molecular Phylogenetics and Evolution, 2012, 64, 45-55.	2.7	91

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19	Evolution of Extensively Fragmented Mitochondrial Genomes in the Lice of Humans. Genome Biology and Evolution, 2012, 4, 1088-1101.	2.5	86
20	Phylogenetic analysis of the mitochondrial genomes and nuclear rRNA genes of ticks reveals a deep phylogenetic structure within the genus Haemaphysalis and further elucidates the polyphyly of the genus Amblyomma with respect to Amblyomma sphenodonti and Amblyomma elaphense. Ticks and Tick-borne Diseases, 2013, 4, 265-274.	2.7	85
21	Phylogenetic Analyses of the Rhipicephaline Ticks Indicate That the Genus Rhipicephalus Is Paraphyletic. Molecular Phylogenetics and Evolution, 2000, 16, 1-7.	2.7	79
22	Sequencing a New Target Genome: The Boophilus microplus (Acari: Ixodidae) Genome Project. Journal of Medical Entomology, 2006, 43, 9-16.	1.8	74
23	Novel Mitochondrial Gene Content and Gene Arrangement Indicate Illegitimate Inter-mtDNA Recombination in the Chigger Mite, Leptotrombidium pallidum. Journal of Molecular Evolution, 2005, 60, 764-773.	1.8	72
24	A list of the 70 species of Australian ticks; diagnostic guides to and species accounts of Ixodes holocyclus (paralysis tick), Ixodes cornuatus (southern paralysis tick) and Rhipicephalus australis (Australian cattle tick); and consideration of the place of Australia in the evolution of ticks with comments on four controversial ideas. International Journal for Parasitology, 2014, 44, 941-953.	3.1	71
25	Phylogeny and classification, origins, and evolution of host associations of lice. International Journal for Parasitology, 1994, 24, 1285-1291.	3.1	68
26	Molecular Mechanisms for the Variation of Mitochondrial Gene Content and Gene Arrangement Among Chigger Mites of the Genus Leptotrombidium (Acari: Acariformes). Journal of Molecular Evolution, 2006, 63, 251-261.	1.8	65
27	A new subfamily, Bothriocrotoninae n. subfam., for the genus Bothriocroton Keirans, King & Sharrad, 1994 status amend. (Ixodida: Ixodidae), and the synonymy of Aponomma Neumann, 1899 with Amblyomma Koch, 1844. Systematic Parasitology, 2002, 53, 101-107.	1.1	64
28	The Multipartite Mitochondrial Genome of Liposcelis bostrychophila: Insights into the Evolution of Mitochondrial Genomes in Bilateral Animals. PLoS ONE, 2012, 7, e33973.	2.5	64
29	Distinguishing Species and Populations of Rhipicephaline Ticks with ITS 2 Ribosomal RNA. Journal of Parasitology, 1998, 84, 887.	0.7	61
30	V4 region of small subunit rDNA indicates polyphyly of the Fellodistomidae (Digenea) which is supported by morphology and life-cycle data. Systematic Parasitology, 1999, 43, 81-92.	1.1	57
31	Sequencing a New Target Genome: The <I>Boophilus microplus</I> (Acari: Ixodidae) Genome Project. Journal of Medical Entomology, 2006, 43, 9-16.	1.8	54
32	Phylogeny, Evolution and Historical Zoogeography of Ticks: A Review of Recent Progress. Experimental and Applied Acarology, 2002, 28, 55-68.	1.6	53
33	Phylogeny of the lice (Insecta, Phthiraptera) inferred from small subunit rRNA. Zoologica Scripta, 2003, 32, 407-414.	1.7	52
34	A randomised, assessor blind, parallel group comparative efficacy trial of three products for the treatment of head lice in children - melaleuca oil and lavender oil, pyrethrins and piperonyl butoxide, and a "suffocation" product. BMC Dermatology, 2010, 10, 6.	2.1	46
35	Substantial Variation in the Extent of Mitochondrial Genome Fragmentation among Blood-Sucking Lice of Mammals. Genome Biology and Evolution, 2013, 5, 1298-1308.	2.5	42
36	Phylogenies from mitochondrial genomes of 120 species of ticks: Insights into the evolution of the families of ticks and of the genus Amblyomma. Ticks and Tick-borne Diseases, 2021, 12, 101577.	2.7	38

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37	Fragmented mitochondrial genomes in two suborders of parasitic lice of eutherian mammals (Anoplura and Rhynchophthirina, Insecta). Scientific Reports, 2015, 5, 17389.	3.3	37
38	Nuclear (18S-28S rRNA) and mitochondrial genome markers of Carios (Carios) vespertilionis (Argasidae) support Carios Latreille, 1796 as a lineage embedded in the Ornithodorinae: re-classification of the Carios sensu Klompen and Oliver (1993) clade into its respective subgenera. Ticks and Tick-borne Diseases, 2021, 12, 101688.	2.7	37
39	Relationships among the three major lineages of the Acari (Arthropoda:Arachnida) inferred from small subunit rRNA: paraphyly of the Parasitiformes with respect to the Opilioacariformes and relative rates of nucleotide substitution. Invertebrate Systematics, 2005, 19, 383.	1.3	36
40	LETTER TO THE EDITOR. Molecular Phylogenetics and Evolution, 1999, 12, 83-86.	2.7	33
41	The mitochondrial genome of the chimpanzee louse, Pediculus schaeffi: insights into the process of mitochondrial genome fragmentation in the blood-sucking lice of great apes. BMC Genomics, 2015, 16, 661.	2.8	32
42	Two new genera of hard ticks, Robertsicus n. gen. and Archaeocroton n. gen., and the solution to the mystery of Hoogstraalâ€™s and Kaufmanâ€™s â€œprimitiveâ€•tick from the Carpathian Mountains. Zootaxa, 2018, 4500, 543-552.	0.5	32
43	Heteroplasmy in the Mitochondrial Genomes of Human Lice and Ticks Revealed by High Throughput Sequencing. PLoS ONE, 2013, 8, e73329.	2.5	32
44	An ex vivo, assessor blind, randomised, parallel group, comparative efficacy trial of the ovicidal activity of three pediculicides after a single application - melaleuca oil and lavender oil, eucalyptus oil and lemon tea tree oil, and a "suffocation" pediculicide. BMC Dermatology, 2011, 11, 14.	2.1	30
45	A transcriptome-based phylogenetic study of hard ticks (Ixodidae). Scientific Reports, 2019, 9, 12923.	3.3	30
46	International guidelines for clinical trials with pediculicides. International Journal of Dermatology, 2012, 51, 853-858.	1.0	28
47	The Hemiuroidea (Digenea) of pomacentrid fishes (Perciformes) from Heron Island, Queensland, Australia. Systematic Parasitology, 1993, 24, 159-184.	1.1	27
48	Fragmented mitochondrial genomes are present in both major clades of the blood-sucking lice (suborder Anoplura): evidence from two Hoplopleura rodent lice (family Hoplopleuridae). BMC Genomics, 2014, 15, 751.	2.8	27
49	The Mitochondrial Genome of the Guanaco Louse, Microthoracius praelongiceps: Insights into the Ancestral Mitochondrial Karyotype of Sucking Lice (Anoplura, Insecta). Genome Biology and Evolution, 2017, 9, 431-445.	2.5	27
50	The Value of Idiosyncratic Markers and Changes to Conserved tRNA Sequences from the Mitochondrial Genome of Hard Ticks (Acari: Ixodida: Ixodidae) for Phylogenetic Inference. Systematic Biology, 2003, 52, 296-310.	5.6	26
51	Distribution and phylogenetic analyses of an endangered tick, Amblyomma sphenodonti. New Zealand Journal of Zoology, 2007, 34, 97-105.	1.1	26
52	Variation in mitochondrial minichromosome composition between blood-sucking lice of the genus Haematopinus that infest horses and pigs. Parasites and Vectors, 2014, 7, 144.	2.5	26
53	Chimeric mitochondrial minichromosomes of the human body louse, Pediculus humanus: Evidence for homologous and non-homologous recombination. Gene, 2011, 473, 36-43.	2.2	25
54	International recommendations for an effective control of head louse infestations. International Journal of Dermatology, 2021, 60, 272-280.	1.0	25

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55	Discovery of a novel iflavirus sequence in the eastern paralysis tick Ixodes holocyclus. Archives of Virology, 2018, 163, 2451-2457.	2.1	24
56	Microsatellite loci of the cattle tick Boophilus microplus (Acari: Ixodidae). Experimental and Applied Acarology, 2000, 24, 951-956.	1.6	20
57	Precise annotation of tick mitochondrial genomes reveals multiple copy number variation of short tandem repeats and one transposon-like element. BMC Genomics, 2020, 21, 488.	2.8	18
58	Identification of small juvenile scombrids from northwest tropical Australia using mitochondrial DNA cytochrome b sequences. Ichthyological Research, 2007, 54, 246-252.	0.8	15
59	The Lepocreadiidae (Digenea) of pomacentrid fishes (Perciformes) from Heron Island, Queensland, Australia. Systematic Parasitology, 1993, 26, 189-200.	1.1	14
60	Rickettsia fournieri sp. nov., a novel spotted fever group rickettsia from Argas lagenoplastis ticks in Australia. International Journal of Systematic and Evolutionary Microbiology, 2018, 68, 3781-3784.	1.7	14
61	Host switching of human lice to new world monkeys in South America. Infection, Genetics and Evolution, 2016, 39, 225-231.	2.3	13
62	Ovicidal Efficacy of Abametapir Against Eggs of Human Head and Body Lice (Anoplura: Pediculidae). Journal of Medical Entomology, 2017, 54, 167-172.	1.8	13
63	Climatic requirements of the eastern paralysis tick, Ixodes holocyclus, with a consideration of its possible geographic range up to 2090. International Journal for Parasitology, 2021, 51, 241-249.	3.1	13
64	Four species of Lepidapedoides Yamaguti, 1970 (Digenea: Lepocreadiidae) from fishes of the southern Great Barrier Reef, with a tabulation of host-parasite data on the group. Systematic Parasitology, 1996, 34, 179-195.	1.1	12
65	Large mitochondrial repeats multiplied during the polymerase chain reaction. Molecular Ecology Notes, 2001, 1, 336-340.	1.7	12
66	Full-length genome sequence of segmented RNA virus from ticks was obtained using small RNA sequencing data. BMC Genomics, 2020, 21, 641.	2.8	12
67	Preptetos cannoni n. sp. (Digenea: Lepocreadiidae) from Siganus lineatus (Teleostei: Siganidae) from the southern Great Barrier Reef, Australia. Systematic Parasitology, 1993, 26, 151-155.	1.1	5
68	Precise annotation of human, chimpanzee, rhesus macaque and mouse mitochondrial genomes leads to insight into mitochondrial transcription in mammals. RNA Biology, 2020, 17, 395-402.	3.1	5
69	Climatic requirements of the southern paralysis tick, Ixodes cornuatus, with a consideration of its host, Vombatus ursinus, and the possible geographic range of the tick up to 2090. Ticks and Tick-borne Diseases, 2021, 12, 101758.	2.7	5
70	Ticks in Australia: endemics; exotics; which ticks bite humans?. Microbiology Australia, 2018, 39, 194.	0.4	5
71	Postlepidapedon Zdzitowiecki, 1993 and Gibsonivermis n. g. (Digenea: Lepocreadiidae) from fishes of the southern Great Barrier Reef, Australia, and their relationship to Intusatrium Durio & Manter, 1968. Systematic Parasitology, 1997, 36, 143-155.	1.1	4
72	Reconstruction of mitochondrial genomes from raw sequencing data provides insights on the phylogeny of Ixodes ticks and cautions for species misidentification. Ticks and Tick-borne Diseases, 2022, 13, 101832.	2.7	4

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73	Description of the female, nymph and larva and mitochondrial genome, and redescription of the male of Ixodes barkeri Barker, 2019 (Acari: Ixodidae), from the short-beaked echidna, Tachyglossus aculeatus, with a consideration of the most suitable subgenus for this tick. Parasites and Vectors, 2022, 15, 117.	2.5	4
74	Phylogeny, evolution and historical zoogeography of ticks: a review of recent progress. , 2003, , 55-68.		2
75	Rediscovery of Ixodes confusus in Australia with the first description of the male from Australia, a redescription of the female and the mitochondrial (mt) genomes of five species of Ixodes. International Journal for Parasitology: Parasites and Wildlife, 2022, 18, 1-11.	1.5	2
76	Dermacentor kamshadalus (Acari: Ixodidae), a Tick of Mountain Goats and Sheep in Western United States, Canada, and Russia, Is a Valid Species. Journal of Medical Entomology, 2021, 58, 499-501.	1.8	1