

Paul M Sharp

List of Publications by Year in descending order

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109
papers

28,257
citations

13099

68
h-index

26613

107
g-index

110
all docs

110
docs citations

110
times ranked

17863
citing authors

#	ARTICLE	IF	CITATIONS
1	CLUSTAL: a package for performing multiple sequence alignment on a microcomputer. <i>Gene</i> , 1988, 73, 237-244.	2.2	3,454
2	The codon adaptation index-a measure of directional synonymous codon usage bias, and its potential applications. <i>Nucleic Acids Research</i> , 1987, 15, 1281-1295.	14.5	3,290
3	Origin of HIV-1 in the chimpanzee <i>Pan troglodytes troglodytes</i> . <i>Nature</i> , 1999, 397, 436-441.	27.8	1,405
4	Codon usage in yeast: cluster analysis clearly differentiates highly and lowly expressed genes. <i>Nucleic Acids Research</i> , 1986, 14, 5125-5143.	14.5	1,073
5	AIDS as a Zoonosis: Scientific and Public Health Implications. <i>Science</i> , 2000, 287, 607-614.	12.6	1,012
6	Origins of HIV and the AIDS Pandemic. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2011, 1, a006841-a006841.	6.2	937
7	An evolutionary perspective on synonymous codon usage in unicellular organisms. <i>Journal of Molecular Evolution</i> , 1986, 24, 28-38.	1.8	801
8	Fast and sensitive multiple sequence alignments on a microcomputer. <i>Bioinformatics</i> , 1989, 5, 151-153.	4.1	799
9	Chimpanzee Reservoirs of Pandemic and Nonpandemic HIV-1. <i>Science</i> , 2006, 313, 523-526.	12.6	723
10	Mutation rates differ among regions of the mammalian genome. <i>Nature</i> , 1989, 337, 283-285.	27.8	599
11	Recombination in HIV-1. <i>Nature</i> , 1995, 374, 124-126.	27.8	589
12	Codon usage patterns in <i>Escherichia coli</i> , <i>Bacillus subtilis</i> , <i>Saccharomyces cerevisiae</i> , <i>Schizosaccharomyces pombe</i> , <i>Drosophila melanogaster</i> and <i>Homo sapiens</i> ; a review of the considerable within-species diversity. <i>Nucleic Acids Research</i> , 1988, 16, 8207-8211.	14.5	569
13	Deciphering Human Immunodeficiency Virus Type 1 Transmission and Early Envelope Diversification by Single-Genome Amplification and Sequencing. <i>Journal of Virology</i> , 2008, 82, 3952-3970.	3.4	540
14	Human infection by genetically diverse SIVSM-related HIV-2 in West Africa. <i>Nature</i> , 1992, 358, 495-499.	27.8	486
15	An African HIV-1 sequence from 1959 and implications for the origin of the epidemic. <i>Nature</i> , 1998, 391, 594-597.	27.8	479
16	An evaluation of the molecular clock hypothesis using mammalian DNA sequences. <i>Journal of Molecular Evolution</i> , 1987, 25, 330-342.	1.8	456
17	Origin of the human malaria parasite <i>Plasmodium falciparum</i> in gorillas. <i>Nature</i> , 2010, 467, 420-425.	27.8	445
18	Recombination in AIDS viruses. <i>Journal of Molecular Evolution</i> , 1995, 40, 249-259.	1.8	408

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19	Tetherin-Driven Adaptation of Vpu and Nef Function and the Evolution of Pandemic and Nonpandemic HIV-1 Strains. <i>Cell Host and Microbe</i> , 2009, 6, 409-421.	11.0	391
20	Nef-Mediated Suppression of T Cell Activation Was Lost in a Lentiviral Lineage that Gave Rise to HIV-1. <i>Cell</i> , 2006, 125, 1055-1067.	28.9	359
21	Variation in the strength of selected codon usage bias among bacteria. <i>Nucleic Acids Research</i> , 2005, 33, 1141-1153.	14.5	348
22	Hybrid Origin of SIV in Chimpanzees. <i>Science</i> , 2003, 300, 1713-1713.	12.6	337
23	SIV infection in wild gorillas. <i>Nature</i> , 2006, 444, 164-164.	27.8	315
24	Increased mortality and AIDS-like immunopathology in wild chimpanzees infected with SIVcpz. <i>Nature</i> , 2009, 460, 515-519.	27.8	315
25	Forces that influence the evolution of codon bias. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 1203-1212.	4.0	301
26	Codon usage in <i>Caenorhabditis elegans</i> : delineation of translational selection and mutational biases. <i>Nucleic Acids Research</i> , 1994, 22, 2437-2446.	14.5	282
27	Codon usage: mutational bias, translational selection, or both?. <i>Biochemical Society Transactions</i> , 1993, 21, 835-841.	3.4	280
28	Synonymous codon usage in <i>Bacillus subtilis</i> reflects both translational selection and mutational biases. <i>Nucleic Acids Research</i> , 1987, 15, 8023-8040.	14.5	277
29	Simian Immunodeficiency Virus Infection in Free-Ranging Sooty Mangabeys (<i>Cercocebus atys atys</i>) from the Taï Forest, Côte d'Ivoire: Implications for the Origin of Epidemic Human Immunodeficiency Virus Type 2. <i>Journal of Virology</i> , 2005, 79, 12515-12527.	3.4	274
30	A Comprehensive Panel of Near-Full-Length Clones and Reference Sequences for Non-Subtype B Isolates of Human Immunodeficiency Virus Type 1. <i>Journal of Virology</i> , 1998, 72, 5680-5698.	3.4	270
31	Synonymous codon usage in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 1991, 7, 657-678.	1.7	263
32	The origins of acquired immune deficiency syndrome viruses: where and when?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2001, 356, 867-876.	4.0	263
33	The evolution of HIV-1 and the origin of AIDS. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 2487-2494.	4.0	241
34	Determinants of DNA sequence divergence between <i>Escherichia coli</i> and <i>Salmonella typhimurium</i> : Codon usage, map position, and concerted evolution. <i>Journal of Molecular Evolution</i> , 1991, 33, 23-33.	1.8	239
35	Codon usage and genome evolution. <i>Current Opinion in Genetics and Development</i> , 1994, 4, 851-860.	3.3	232
36	SIVcpz in Wild Chimpanzees. <i>Science</i> , 2002, 295, 465-465.	12.6	207

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37	Rates of synonymous substitution in plant nuclear genes. <i>Journal of Molecular Evolution</i> , 1989, 29, 208-211.	1.8	179
38	Simian Immunodeficiency Virus Infection of Chimpanzees. <i>Journal of Virology</i> , 2005, 79, 3891-3902.	3.4	173
39	Codon usage and gene expression level in <i>Dictyostelium discoideum</i> : highly expressed genes do [prefer] optimal codons. <i>Nucleic Acids Research</i> , 1989, 17, 5029-5040.	14.5	170
40	African origin of the malaria parasite <i>Plasmodium vivax</i> . <i>Nature Communications</i> , 2014, 5, 3346.	12.8	167
41	Resistance to type 1 interferons is a major determinant of HIV-1 transmission fitness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E590-E599.	7.1	137
42	Origin of the HIV-1 group O epidemic in western lowland gorillas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1343-52.	7.1	136
43	Proteome composition and codon usage in spirochaetes: species-specific and DNA strand-specific mutational biases. <i>Nucleic Acids Research</i> , 1999, 27, 1642-1649.	14.5	130
44	Chromosomal location effects on gene sequence evolution in mammals. <i>Current Biology</i> , 1999, 9, 786-791.	3.9	123
45	Molecular Ecology and Natural History of Simian Foamy Virus Infection in Wild-Living Chimpanzees. <i>PLoS Pathogens</i> , 2008, 4, e1000097.	4.7	122
46	New Simian Immunodeficiency Virus Infecting De Brazza's Monkeys (<i>Cercopithecus neglectus</i>): Evidence for a <i>Cercopithecus</i> Monkey Virus Clade. <i>Journal of Virology</i> , 2004, 78, 7748-7762.	3.4	121
47	Evolution of codon usage patterns: the extent and nature of divergence between <i>Candida albicans</i> and <i>Saccharomyces cerevisiae</i> . <i>Nucleic Acids Research</i> , 1992, 20, 5289-5295.	14.5	119
48	Genetic diversity and phylogeographic clustering of SIVcpzPtt in wild chimpanzees in Cameroon. <i>Virology</i> , 2007, 368, 155-171.	2.4	118
49	Foci of Endemic Simian Immunodeficiency Virus Infection in Wild-Living Eastern Chimpanzees (<i>Pan</i>) Tj ETQq1 1 0.784314 rgBT / Over 116	3.4	116
50	Regional base composition variation along yeast chromosome III: evolution of chromosome primary structure. <i>Nucleic Acids Research</i> , 1993, 21, 179-183.	14.5	114
51	Enterobacterial Repetitive Intergenic Consensus (ERIC) Sequences in <i>Escherichia coli</i> : Evolution and Implications for ERIC-PCR. <i>Molecular Biology and Evolution</i> , 2006, 23, 1156-1168.	8.9	106
52	Origin and Biology of Simian Immunodeficiency Virus in Wild-Living Western Gorillas. <i>Journal of Virology</i> , 2009, 83, 1635-1648.	3.4	106
53	Codon usage in the <i>Mycobacterium tuberculosis</i> complex. <i>Microbiology (United Kingdom)</i> , 1996, 142, 915-925.	1.8	102
54	Adaptation of HIV-1 to Its Human Host. <i>Molecular Biology and Evolution</i> , 2007, 24, 1853-1860.	8.9	100

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55	Sequence Analysis of a Highly Divergent HIV-1-Related Lentivirus Isolated from a Wild Captured Chimpanzee. <i>Virology</i> , 1996, 221, 346-350.	2.4	94
56	High Prevalence of Simian Immunodeficiency Virus Infection in a Community of Savanna Chimpanzees. <i>Journal of Virology</i> , 2011, 85, 9918-9928.	3.4	94
57	Gene Loss and Adaptation to Hominids Underlie the Ancient Origin of HIV-1. <i>Cell Host and Microbe</i> , 2013, 14, 85-92.	11.0	93
58	An Isolate of Human Immunodeficiency Virus Type 1 Originally Classified as Subtype I Represents a Complex Mosaic Comprising Three Different Group M Subtypes (A, G, and I). <i>Journal of Virology</i> , 1998, 72, 10234-10241.	3.4	90
59	Simian Immunodeficiency Virus (SIV) from Sun-Tailed Monkeys (<i>Cercopithecus solatus</i>): Evidence for Host-Dependent Evolution of SIV within the <i>C. lhoesti</i> Superspecies. <i>Journal of Virology</i> , 1999, 73, 7734-7744.	3.4	87
60	Origins of Human Virus Diversity. <i>Cell</i> , 2002, 108, 305-312.	28.9	86
61	Absence of translationally selected synonymous codon usage bias in <i>Helicobacter pylori</i> . <i>Microbiology (United Kingdom)</i> , 2000, 146, 851-860.	1.8	86
62	Evaluating the evidence for virus/host co-evolution. <i>Current Opinion in Virology</i> , 2011, 1, 436-441.	5.4	84
63	Codon usage and base composition in <i>Rickettsia prowazekii</i> . <i>Journal of Molecular Evolution</i> , 1996, 42, 525-536.	1.8	82
64	Amplification of a Complete Simian Immunodeficiency Virus Genome from Fecal RNA of a Wild Chimpanzee. <i>Journal of Virology</i> , 2003, 77, 2233-2242.	3.4	80
65	Characterization of a Novel Simian Immunodeficiency Virus (SIV) from L ^â ™Hoest Monkeys () Tj ETQq1 1 0.784314 rgBT /Overlock 107 <i>Journal of Virology</i> , 1999, 73, 1036-1045.	3.4	80
66	Nef Proteins of Epidemic HIV-1 Group O Strains Antagonize Human Tetherin. <i>Cell Host and Microbe</i> , 2014, 16, 639-650.	11.0	77
67	Contaminated polio vaccine theory refuted. <i>Nature</i> , 2004, 428, 820-820.	27.8	74
68	Eastern Chimpanzees, but Not Bonobos, Represent a Simian Immunodeficiency Virus Reservoir. <i>Journal of Virology</i> , 2012, 86, 10776-10791.	3.4	73
69	Synonymous codon usage in <i>Pseudomonas aeruginosa</i> PA01. <i>Gene</i> , 2002, 289, 131-139.	2.2	71
70	Codon usage in <i>Aspergillus nidulans</i> . <i>Molecular Genetics and Genomics</i> , 1991, 230, 288-294.	2.4	70
71	Understanding the origins of AIDS viruses. <i>Nature</i> , 1988, 336, 315-315.	27.8	66
72	Selective differences among translation termination codons. <i>Gene</i> , 1988, 63, 141-145.	2.2	65

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73	Predicting Gene Expression Level from Codon Usage Bias. <i>Molecular Biology and Evolution</i> , 2007, 24, 10-12.	8.9	62
74	Generation of Infectious Molecular Clones of Simian Immunodeficiency Virus from Fecal Consensus Sequences of Wild Chimpanzees. <i>Journal of Virology</i> , 2007, 81, 7463-7475.	3.4	62
75	Selection pressures on codon usage in the complete genome of bacteriophage T7. <i>Journal of Molecular Evolution</i> , 1985, 21, 150-160.	1.8	60
76	Malarial proteinase?. <i>Nature</i> , 1989, 340, 604-604.	27.8	60
77	Conservation of motifs within the unusually variable polypeptide sequences of type I restriction and modification enzymes. <i>Molecular Microbiology</i> , 1993, 9, 133-143.	2.5	59
78	Heightened resistance to host type 1 interferons characterizes HIV-1 at transmission and after antiretroviral therapy interruption. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	54
79	<i>Plasmodium falciparum</i> -like parasites infecting wild apes in southern Cameroon do not represent a recurrent source of human malaria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7020-7025.	7.1	53
80	Structure, Expression, and Evolution of Guinea Pig Serum Amyloid P Component and C-Reactive Protein1. <i>Journal of Biochemistry</i> , 1993, 113, 277-284.	1.7	52
81	Intercompartmental Recombination of HIV-1 Contributes to <i>env</i> Intrahost Diversity and Modulates Viral Tropism and Sensitivity to Entry Inhibitors. <i>Journal of Virology</i> , 2011, 85, 6024-6037.	3.4	50
82	Simian Immunodeficiency Virus Infection in Wild-Caught Chimpanzees from Cameroon. <i>Journal of Virology</i> , 2005, 79, 1312-1319.	3.4	45
83	Efficient SIVcpz replication in human lymphoid tissue requires viral matrix protein adaptation. <i>Journal of Clinical Investigation</i> , 2012, 122, 1644-1652.	8.2	44
84	Full-length sequence analysis of SIVmus in wild populations of mustached monkeys (<i>Cercopithecus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 407-418.	2.4	43
85	Patterns of Genomic Sequence Diversity among Their Simian Immunodeficiency Viruses Suggest that L'Hoest Monkeys (<i>Cercopithecus lhoesti</i>) Are a Natural Lentivirus Reservoir. <i>Journal of Virology</i> , 2000, 74, 3892-3898.	3.4	42
86	Molecular evolution of ubiquitin genes. <i>Trends in Ecology and Evolution</i> , 1987, 2, 328-332.	8.7	41
87	Noninvasive Detection of Simian Immunodeficiency Virus Infection in a Wild-Living L'Hoest's Monkey (<i>Cercopithecus lhoesti</i>). <i>AIDS Research and Human Retroviruses</i> , 2003, 19, 1163-1166.	1.1	40
88	The salmon gene encoding apolipoprotein A-I: cDNA sequence, tissue expression and evolution. <i>Gene</i> , 1991, 104, 155-161.	2.2	39
89	Multigenomic Delineation of <i>Plasmodium</i> Species of the <i>Laverania</i> Subgenus Infecting Wild-Living Chimpanzees and Gorillas. <i>Genome Biology and Evolution</i> , 2016, 8, 1929-1939.	2.5	38
90	Prehistory of HIV-1. <i>Nature</i> , 2008, 455, 605-606.	27.8	33

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91	What can AIDS virus codon usage tell us?. <i>Nature</i> , 1986, 324, 114-114.	27.8	31
92	Synonymous codon usage in <i>Kluyveromyces lactis</i> . <i>Yeast</i> , 1993, 9, 1219-1228.	1.7	31
93	Synonymous codon usage in <i>Cryptosporidium parvum</i> : identification of two distinct trends among genes. <i>International Journal for Parasitology</i> , 2001, 31, 402-412.	3.1	31
94	Great Apes and Zoonoses. <i>Science</i> , 2013, 340, 284-286.	12.6	27
95	Evidence that mutation patterns vary among <i>Drosophila</i> transposable elements. <i>Journal of Molecular Biology</i> , 1989, 207, 843-846.	4.2	24
96	Does the "non-coding" strand code?. <i>Nucleic Acids Research</i> , 1985, 13, 1389-1397.	14.5	22
97	Complete Genome Analysis of One of the Earliest SIVcpzPtt Strains from Gabon (SIVcpzGAB2). <i>AIDS Research and Human Retroviruses</i> , 2004, 20, 1377-1381.	1.1	22
98	CD4 receptor diversity in chimpanzees protects against SIV infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3229-3238.	7.1	21
99	Coelacanth's relationships. <i>Nature</i> , 1991, 353, 218-219.	27.8	18
100	The Malagarasi River Does Not Form an Absolute Barrier to Chimpanzee Movement in Western Tanzania. <i>PLoS ONE</i> , 2013, 8, e58965.	2.5	18
101	Molecular evolution of bacteriophages: Discrete patterns of codon usage in T4 genes are related to the time of gene expression. <i>Journal of Molecular Evolution</i> , 1991, 33, 13-22.	1.8	17
102	Impact of translational selection on codon usage bias in the archaeon <i>Methanococcus maripaludis</i> . <i>Biology Letters</i> , 2011, 7, 131-135.	2.3	12
103	Effective treatment of SIVcpz-induced immunodeficiency in a captive western chimpanzee. <i>Retrovirology</i> , 2017, 14, 35.	2.0	12
104	The Evolution of Primate Lentiviruses and the Origins of AIDS. , 2002, , 65-96.		10
105	Investigating zoonotic infection barriers to ape <i>Plasmodium</i> parasites using faecal DNA analysis. <i>International Journal for Parasitology</i> , 2018, 48, 531-542.	3.1	9
106	CD4 receptor diversity represents an ancient protection mechanism against primate lentiviruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	9
107	Genetic Typing of HIV-2 from a Senegalese/German Heterosexual Transmission. <i>AIDS Research and Human Retroviruses</i> , 1993, 9, 703-704.	1.1	8
108	The evolution of infectious agents in relation to sex in animals and humans: brief discussions of some individual organisms. <i>Annals of the New York Academy of Sciences</i> , 2011, 1230, 74-107.	3.8	5

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109	The molecular evolution of the human immunodeficiency viruses. , 1995, , 438-454.		2