Chung-I Wu

List of Publications by Year
in descending order

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Version: 2024-02-01

65 papers	6,308 citations	257357 24 h-index	98753 67 g-index
71 all docs	71 docs citations	71 times ranked	8431 citing authors

#	Article	IF	Citations
1	Hitchhiking Under Positive Darwinian Selection. Genetics, 2000, 155, 1405-1413.	1.2	1,602
2	The genic view of the process of speciation. Journal of Evolutionary Biology, 2001, 14, 851-865.	0.8	1,092
3	Positive and Negative Selection on the Human Genome. Genetics, 2001, 158, 1227-1234.	1.2	565
4	Genes and speciation. Nature Reviews Genetics, 2004, 5, 114-122.	7.7	456
5	Extremely high genetic diversity in a single tumor points to prevalence of non-Darwinian cell evolution. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6496-505.	3.3	313
6	Classifying the evolutionary and ecological features of neoplasms. Nature Reviews Cancer, 2017, 17, 605-619.	12.8	303
7	Out of southern East Asia: the natural history of domestic dogs across the world. Cell Research, 2016, 26, 21-33.	5.7	271
8	Evolution under canalization and the dual roles of microRNAsâ€"A hypothesis. Genome Research, 2009, 19, 734-743.	2.4	160
9	Genetic Convergence in the Adaptation of Dogs and Humans to the High-Altitude Environment of the Tibetan Plateau. Genome Biology and Evolution, 2014, 6, 2122-2128.	1.1	146
10	The origin, diversification and adaptation of a major mangrove clade (Rhizophoreae) revealed by whole-genome sequencing. National Science Review, 2017, 4, 721-734.	4.6	118
11	Speciation with gene flow via cycles of isolation and migration: insights from multiple mangrove taxa. National Science Review, 2019, 6, 275-288.	4.6	97
12	INCIPIENT SPECIATION BY SEXUAL ISOLATION INDROSOPHILA MELANOGASTER: VARIATION IN MATING PREFERENCE AND CORRELATION BETWEEN SEXES. Evolution; International Journal of Organic Evolution, 1997, 51, 1175-1181.	1.1	95
13	The Ecology and Evolution of Cancer: The Ultra-Microevolutionary Process. Annual Review of Genetics, 2016, 50, 347-369.	3.2	86
14	A test of reciprocal Xâ€"Y interactions as a cause of hybrid sterility in Drosophila. Nature, 1992, 358, 751-753.	13.7	74
15	New MicroRNAs in Drosophilaâ€"Birth, Death and Cycles of Adaptive Evolution. PLoS Genetics, 2014, 10, e1004096.	1.5	53
16	Comment on "Chromosomal Speciation and Molecular Divergence-Accelerated Evolution in Rearranged Chromosomes". Science, 2003, 302, 988b-988.	6.0	44
17	Genome-Wide Convergence during Evolution of Mangroves from Woody Plants. Molecular Biology and Evolution, 2017, 34, msw277.	3.5	43
18	Can genomic data alone tell us whether speciation happened with gene flow?. Molecular Ecology, 2017, 26, 2845-2849.	2.0	43

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19	Functional Conservation of Both CDS- and 3â€²-UTR-Located MicroRNA Binding Sites between Species. Molecular Biology and Evolution, 2015, 32, 623-628.	3.5	42
20	Evolution of coastal forests based on a full set of mangrove genomes. Nature Ecology and Evolution, 2022, 6, 738-749.	3.4	41
21	Redundant and incoherent regulations of multiple phenotypes suggest microRNAsâ€™ role in stability control. Genome Research, 2017, 27, 1665-1673.	2.4	40
22	On the low reproducibility of cancer studies. National Science Review, 2018, 5, 619-624.	4.6	38
23	Genes and speciation: is it time to abandon the biological species concept?. National Science Review, 2020, 7, 1387-1397.	4.6	34
24	Free-living human cells reconfigure their chromosomes in the evolution back to uni-cellularity. ELife, 2017, 6, .	2.8	31
25	Weak Regulation of Many Targets Is Cumulatively Powerfulâ€”An Evolutionary Perspective on microRNA Functionality. Molecular Biology and Evolution, 2017, 34, 3041-3046.	3.5	28
26	Reply to â€œEvolutionary flux of canonical microRNAs and mirtrons in Drosophilaâ€• Nature Genetics, 2010, 42, 9-10.	9.4	27
27	On the founder effect in COVID-19 outbreaks: how many infected travelers may have started them all?. National Science Review, 2021, 8, nwaa246.	4.6	27
28	Reminder to deposit DNA sequences. Science, 2016, 352, 780-780.	6.0	24
29	Genes and speciation. Journal of Evolutionary Biology, 2001, 14, 889-891.	0.8	23
30	The twin-beginnings of COVID-19 in Asia and Europeâ€”one prevails quickly. National Science Review, 2022, 9, nwab223.	4.6	22
31	Ultrasensitive and high-efficiency screen of de novo low-frequency mutations by o2n-seq. Nature Communications, 2017, 8, 15335.	5.8	20
32	Small RNA transcriptomes of mangroves evolve adaptively in extreme environments. Scientific Reports, 2016, 6, 27551.	1.6	18
33	A theoretical exploration of the origin and early evolution of a pandemic. Science Bulletin, 2021, 66, 1022-1029.	4.3	18
34	On the origin of SARS-CoV-2â€”The blind watchmaker argument. Science China Life Sciences, 2021, 64, 1560-1563.	2.3	18
35	A New Formulation of Random Genetic Drift and Its Application to the Evolution of Cell Populations. Molecular Biology and Evolution, 2017, 34, 2057-2064.	3.5	17
36	Tumorigenesis as the Paradigm of Quasi-neutral Molecular Evolution. Molecular Biology and Evolution, 2019, 36, 1430-1441.	3.5	17

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37	PROPER CONTROL OF GENETIC BACKGROUND WITH PRECISE ALLELE SUBSTITUTION: A COMMENT ON COYNE AND ELWYN. Evolution; International Journal of Organic Evolution, 2006, 60, 623-625.	1.1	16
38	The Genotypeâ€“Phenotype Relationships in the Light of Natural Selection. Molecular Biology and Evolution, 2018, 35, 525-542.	3.5	16
39	Molecular Evolution in Large Stepsâ€”Codon Substitutions under Positive Selection. Molecular Biology and Evolution, 2019, 36, 1862-1873.	3.5	16
40	The heterogeneity of plasma miRNA profiles in hepatocellular carcinoma patients and the exploration of diagnostic circulating miRNAs for hepatocellular carcinoma. PLoS ONE, 2019, 14, e0211581.	1.1	15
41	The Runaway Evolution of SARS-CoV-2 Leading to the Highly Evolved Delta Strain. Molecular Biology and Evolution, 2022, 39, .	3.5	14
42	Regulation of Large Number of Weak Targetsâ€”New Insights from Twin-microRNAs. Genome Biology and Evolution, 2018, 10, 1255-1264.	1.1	13
43	A case for conservation. Nature, 2004, 428, 213-214.	13.7	12
44	Ultra-precise detection of mutations by droplet-based amplification of circularized DNA. BMC Genomics, 2016, 17, 214.	1.2	11
45	Death of new microRNA genes inDrosophilavia gradual loss of fitness advantages. Genome Research, 2018, 28, 1309-1318.	2.4	11
46	Using ultra-sensitive next generation sequencing to dissect DNA damage-induced mutagenesis. Scientific Reports, 2016, 6, 25310.	1.6	10
47	Molecular Evolution in Small Steps under Prevailing Negative Selection: A Nearly Universal Rule of Codon Substitution. Genome Biology and Evolution, 2019, 11, 2702-2712.	1.1	10
48	Mutations Beget More Mutationsâ€”Rapid Evolution of Mutation Rate in Response to the Risk of Runaway Accumulation. Molecular Biology and Evolution, 2020, 37, 1007-1019.	3.5	10
49	Two decades of suspect evidence for adaptive molecular evolutionâ€”negative selection confounding positive-selection signals. National Science Review, 2022, 9, .	4.6	10
50	A Direct Test of Selection in Cell Populations Using the Diversity in Gene Expression within Tumors. Molecular Biology and Evolution, 2017, 34, 1730-1742.	3.5	9
51	Direct measurement of pervasive weak repression by microRNAs and their role at the network level. BMC Genomics, 2018, 19, 362.	1.2	9
52	A proposal for clinical trials of COVID-19 treatment using homo-harringtonine. National Science Review, 2021, 8, nwaa257.	4.6	9
53	Genetic Complexity Underlying Hybrid Male Sterility in Drosophila. Genetics, 2004, 166, 789-796.	1.2	8
54	Modeling Linkage Disequilibrium Between a Polymorphic Marker Locus and a Locus Affecting Complex Dichotomous Traits in Natural Populations. Genetics, 2001, 158, 1785-1800.	1.2	8

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55	Heightened protein-translation activities in mammalian cells and the disease/treatment implications. National Science Review, 2020, 7, 1851-1855.	4.6	7
56	Homo-harringtonine, highly effective against coronaviruses, is safe in treating COVID-19 by nebulization. Science China Life Sciences, 2022, 65, 1263-1266.	2.3	7
57	On the possibility of death of new genes â€“ evidence from the deletion of de novo microRNAs. BMC Genomics, 2018, 19, 388.	1.2	6
58	siRNAs with decreased off-target effect facilitate the identification of essential genes in cancer cells. Oncotarget, 2015, 6, 21603-21613.	0.8	6
59	Now blows the east wind. Nature, 1996, 380, 105-107.	13.7	4
60	Replies to the commentaries on the question of â€˜Is it time to abandon the biological species concept?â€™. National Science Review, 2020, 7, 1407-1409.	4.6	4
61	Convergent adaptive evolutionâ€”how common, or how rare?. National Science Review, 2020, 7, 945-946.	4.6	4
62	Weak Regulation of Many Targets Is Cumulatively Powerfulâ€”A Reply to Seitz on microRNA Functionality. Molecular Biology and Evolution, 2019, 36, 1598-1599.	3.5	3
63	What went wrong in science publishing?. National Science Review, 2017, 4, 518-519.	4.6	2
64	Small Segmental Duplications inDrosophilaâ€”High Rate of Emergence and Elimination. Genome Biology and Evolution, 2019, 11, 486-496.	1.1	1
65	Genomic sequencing identifies a few mutations driving the independent origin of primary liver tumors in a chronic hepatitis murine model. PLoS ONE, 2017, 12, e0187551.	1.1	1