W Ford Doolittle

List of Publications by Year
in descending order

103 papers	10,441 citations	53794 45 h-index	33894 99 g-index
108 all docs	108 docs citations	108 times ranked	7986 citing authors

#	Article	IF	Citations
1	All about levels: transposable elements as selfish DNAs and drivers of evolution. Biology and Philosophy, 2022, 37, .	1.4	2
2	â€˜Speciesâ€™ without species. Studies in History and Philosophy of Science Part A, 2021, 87, 72-80.	1.2	15
3	The role of purifying selection in the origin and maintenance of complex function. Studies in History and Philosophy of Science Part A, 2021, 87, 125-135.	1.2	12
4	Life and life only: a radical alternative to life definitionism. SynthÃ¨se, 2020, 197, 2975-2989.	1.1	28
5	Horizontal persistence and the complexity hypothesis. Biology and Philosophy, 2020, 35, 1.	1.4	17
6	Getting clear about the F-word in genomics. PLoS Genetics, 2020, 16, e1008702.	3.5	22
7	Could this pandemic usher in evolutionâ€™s next major transition?. Current Biology, 2020, 30, R846-R848.	3.9	0
8	Evolution: Two Domains of Life or Three?. Current Biology, 2020, 30, R177-R179.	3.9	17
9	Neutral evolution of cellular phenotypes. Current Opinion in Genetics and Development, 2019, 58-59, 87-94.	3.3	17
10	How microbes â€œjeopardizeâ€•the modern synthesis. PLoS Genetics, 2019, 15, e1008166.	3.5	6
11	Making Evolutionary Sense of Gaia. Trends in Ecology and Evolution, 2019, 34, 889-894.	8.7	23
12	Mutationism, not Lamarckism, captures the novelty of CRISPRâ€“Cas. Biology and Philosophy, 2019, 34, 1.	1.4	5
13	Processes and patterns of interaction as units of selection: An introduction to ITSNTS thinking. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4006-4014.	7.1	95
14	The generality of Constructive Neutral Evolution. Biology and Philosophy, 2018, 33, 1.	1.4	20
15	We simply cannot go on being so vague about â€˜functionâ€™. Genome Biology, 2018, 19, 223.	8.8	22
16	Darwinizing Gaia. Journal of Theoretical Biology, 2017, 434, 11-19.	1.7	55
17	Making the Most of Clade Selection. Philosophy of Science, 2017, 84, 275-295.	1.0	32
18	The coupling of taxonomy and function in microbiomes. Biology and Philosophy, 2017, 32, 1225-1243.	1.4	36

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19	Itâ€™s the song, not the singer: an exploration of holobiosis and evolutionary theory. Biology and Philosophy, 2017, 32, 5-24.	1.4	155
20	On causal roles and selected effects: our genome is mostly junk. BMC Biology, 2017, 15, 116.	3.8	29
21	Microbial Evolution: Xenology (Apparently) Trumps Paralogy. Current Biology, 2016, 26, R1181-R1183.	3.9	7
22	Molecular Phylogenetics and the Perennial Problem of Homology. Journal of Molecular Evolution, 2016, 83, 184-192.	1.8	29
23	The Modern Synthesis in the Light of Microbial Genomics. Annual Review of Microbiology, 2016, 70, 279-297.	7.3	58
24	What Is the Tree of Life?. PLoS Genetics, 2016, 12, e1005912.	3.5	35
25	Microbial Diversity: A Bonanza of Phyla. Current Biology, 2015, 25, R227-R230.	3.9	18
26	Eukaryogenesis, how special really?. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10278-10285.	7.1	83
27	Archaea. Current Biology, 2015, 25, R851-R855.	3.9	45
28	Multilevel Selection Theory and the Evolutionary Functions of Transposable Elements: Fig. 1.â€". Genome Biology and Evolution, 2015, 7, 2445-2457.	2.5	36
29	Reply to Lane and Martin: Being and becoming eukaryotes. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4824-E4824.	7.1	10
30	Eukaryotes first: how could that be?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140322.	4.0	20
31	Getting â€œfunctionâ€•right. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3365.	7.1	22
32	Natural selection through survival alone, and the possibility of Gaia. Biology and Philosophy, 2014, 29, 415-423.	1.4	61
33	The trouble with (group II) introns. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6536-6537.	7.1	19
34	Distinguishing between "Function" and "Effect" in Genome Biology. Genome Biology and Evolution, 2014, 6, 1234-1237.	2.5	79
35	How Natural a Kind Is "Eukaryote?". Cold Spring Harbor Perspectives in Biology, 2014, 6, a015974-a015974.	5.5	3
36	Rhodoluna lacicola gen. nov., sp. nov., a planktonic freshwater bacterium with stream-lined genome. International Journal of Systematic and Evolutionary Microbiology, 2014, 64, 3254-3263.	1.7	66

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37	Carl R. Woese (1928â€"2012). Current Biology, 2013, 23, R183-R185.	3.9	4
38	Sixty years of genome biology. Genome Biology, 2013, 14, 113.	9.6	6
39	Microbial neopleomorphism. Biology and Philosophy, 2013, 28, 351-378.	1.4	21
40	Is junk DNA bunk? A critique of ENCODE. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5294-5300.	7.1	333
41	A ratchet for protein complexity. Nature, 2012, 481, 270-271.	27.8	34
42	Population Genomics: How Bacterial Species Form and Why They Don't Exist. Current Biology, 2012, 22, R451-R453.	3.9	36
43	Coral-mucus-associated <i>Vibrio</i> integrons in the Great Barrier Reef: genomic hotspots for environmental adaptation. ISME Journal, 2011, 5, 962-972.	9.8	37
44	How a neutral evolutionary ratchet can build cellular complexity. IUBMB Life, 2011, 63, 528-537.	3.4	160
45	Comment on â€œDoes constructive neutral evolution play an important role in the origin of cellular complexity?â€•DOI 10.1002/bies.201100010. BioEssays, 2011, 33, 427-429.	2.5	10
46	The attempt on the life of the Tree of Life: science, philosophy and politics. Biology and Philosophy, 2010, 25, 455-473.	1.4	22
47	Irremediable Complexity?. Science, 2010, 330, 920-921.	12.6	204
48	Intertwined Evolutionary Histories of Marine Synechococcus and Prochlorococcus marinus. Genome Biology and Evolution, 2009, 1, 325-339.	2.5	80
49	The practice of classification and the theory of evolution, and what the demise of Charles Darwin's tree of life hypothesis means for both of them. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 2221-2228.	4.0	63
50	On the chimeric nature, thermophilic origin, and phylogenetic placement of the Thermotogales. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5865-5870.	7.1	221
51	On the origin of prokaryotic species. Genome Research, 2009, 19, 744-756.	5.5	207
52	Microbial Evolution: Stalking the Wild Bacterial Species. Current Biology, 2008, 18, R565-R567.	3.9	15
53	The Impact of Reticulate Evolution on Genome Phylogeny. Systematic Biology, 2008, 57, 844-856.	5.6	47
54	Searching for species in haloarchaea. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14092-14097.	7.1	128

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55	Pattern pluralism and the Tree of Life hypothesis. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2043-2049.	7.1	440
56	Systematic overestimation of gene gain through false diagnosis of gene absence. Genome Biology, 2007, 8, 402.	9.6	23
57	Evolution: Reducible Complexity â€” The Case for Bacterial Flagella. Current Biology, 2007, 17, R510-R512.	3.9	15
58	Genomics and the bacterial species problem. Genome Biology, 2006, 7, 116.	9.6	200
59	Microbial rhodopsins: functional versatility and genetic mobility. Trends in Microbiology, 2006, 14, 463-469.	7.7	193
60	Environmental genomics of "Haloquadratum walsbyi" in a saltern crystallizer indicates a large pool of accessory genes in an otherwise coherent species. BMC Genomics, 2006, 7, 171.	2.8	128
61	Recombination in Thermotoga: Implications for Species Concepts and Biogeography. Genetics, 2006, 172, 759-769.	2.9	87
62	Phylogenetic analyses of cyanobacterial genomes: Quantification of horizontal gene transfer events. Genome Research, 2006, 16, 1099-1108.	5.5	278
63	Computing prokaryotic gene ubiquity: Rescuing the core from extinction. Genome Research, 2004, 14, 2469-2477.	5.5	170
64	Phylogenetic reconstruction and lateral gene transfer. Trends in Microbiology, 2004, 12, 406-411.	7.7	124
65	Diversity of bacteriorhodopsins in different hypersaline waters from a single Spanish saltern. Environmental Microbiology, 2003, 5, 1039-1045.	3.8	29
66	Lateral Gene Transfer and the Origins of Prokaryotic Groups. Annual Review of Genetics, 2003, 37, 283-328.	7.6	357
67	Some thoughts on the tree of life. Harvey Lectures, 2003, 99, 111-28.	0.2	0
68	Prokaryotic Evolution in Light of Gene Transfer. Molecular Biology and Evolution, 2002, 19, 2226-2238.	8.9	858
69	Novel syntaxin gene sequences from<i>Giardia, Trypanosoma</i>and algae: implications for the ancient evolution of the eukaryotic endomembrane system. Journal of Cell Science, 2002, 115, 1635-1642.	2.0	64
70	Defining the Core of Nontransferable Prokaryotic Genes: The Euryarchaeal Core. Journal of Molecular Evolution, 2001, 53, 340-350.	1.8	74
71	Tubulins in Trichomonas vaginalis: Molecular Characterization of alpha-Tubulin Genes, Posttranslational Modifications, and Homology Modeling of the Tubulin Dimer. Journal of Eukaryotic Microbiology, 2001, 48, 647-654.	1.7	6
72	GENOMICS: Enhanced: Are There Bugs in Our Genome?. Science, 2001, 292, 1848-1850.	12.6	79

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73	The role of lateral gene transfer in the evolution of isoprenoid biosynthesis pathways. Molecular Microbiology, 2000, 37, 703-716.	2.5	247
74	The nature of the universal ancestor and the evolution of the proteome. Current Opinion in Structural Biology, 2000, 10, 355-358.	5.7	123
75	An Updated and Comprehensive rRNA Phylogeny of (Crown) Eukaryotes Based on Rate-Calibrated Evolutionary Distances. Journal of Molecular Evolution, 2000, 51, 565-576.	1.8	136
76	Gene Descent, Duplication, and Horizontal Transfer in the Evolution of Glutamyl- and Glutaminyl-tRNA Synthetases. Journal of Molecular Evolution, 1999, 49, 485-495.	1.8	99
77	You are what you eat: a gene transfer ratchet could account for bacterial genes in eukaryotic nuclear genomes. Trends in Genetics, 1998, 14, 307-311.	6.7	571
78	Sulfolobus islandicus plasmids pRN1 and pRN2 share distant but common evolutionary ancestry. Extremophiles, 1998, 2, 391-393.	2.3	44
79	Evidence for the early divergence of tryptophanyl- and tyrosyl-tRNA synthetases. Journal of Molecular Evolution, 1997, 45, 9-16.	1.8	67
80	Archaebacterial genomics: The complete genome sequence ofMethanococcus jannaschii. BioEssays, 1997, 19, 1-4.	2.5	17
81	TheSulfolobus solfataricusP2 genome project. FEBS Letters, 1996, 389, 88-91.	2.8	21
82	Linked Genes for Calmodulin and E2 Ubiquitin-Conjugating Enzyme in Trichomonas vaginalis. Journal of Eukaryotic Microbiology, 1996, 43, 468-474.	1.7	8
83	Evidence for the Heterolobosea from Phylogenetic Analysis of Genes Encoding Glyceraldehyde-3-Phosphate Dehydrogenase. Journal of Eukaryotic Microbiology, 1996, 43, 475-485.	1.7	53
84	Why introns-in-pieces?. Nature, 1993, 364, 289-290.	27.8	40
85	Genes-in-pieces revisited. Nature, 1993, 361, 403-403.	27.8	26
86	Sol's world, the RNA world, our world.. FASEB Journal, 1993, 7, 1-2.	0.5	7
87	TRANSFORMATION OF A BOP-HOP-SOP-I-SOP-II-Halobacterium halobium MUTANT TO BOP+: EFFECTS OF BACTERIORHODOPSIN PHOTOACTIVATION ON CELLULAR PROTON FLUXES AND SWIMMING BEHAVIOR. Photochemistry and Photobiology, 1992, 56, 553-561.	2.5	16
88	Biochemical Evolution and the History of Life. Short Courses in Paleontology, 1988, 1, 138-145.	0.2	0
89	The Evolutionary Significance of the Archaebacteria. Annals of the New York Academy of Sciences, 1987, 503, 72-77.	3.8	3
90	Systematics of basidiomycetes based on 5S rRNA sequences and other data (reply). Nature, 1983, 303, 732-732.	27.8	3

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91	Unusual physical organization of the Halobacterium genome. Nature, 1982, 295, 384-389.	27.8	128
92	High-frequency genomic rearrangements involving archaebacterial repeat sequence elements. Nature, 1982, 299, 182-185.	27.8	103
93	Redividing the basidiomycetes on the basis of 5S rRNA sequences. Nature, 1982, 299, 723-724.	27.8	101
94	Selfish genes, the phenotype paradigm and genome evolution. Nature, 1980, 284, 601-603.	27.8	1,738
95	Nucleotide Sequences of Wheatâ€Embryo Cytosol 5â€S and 5.8â€S Ribosomal Ribonucleic Acids. FEBS Journal, 1980, 112, 561-576.	0.2	83
96	Genes in pieces: were they ever together?. Nature, 1978, 272, 581-582.	27.8	453
97	Transmission of Creutzfeldt-Jakob disease from man to the guinea pig. Science, 1975, 190, 571-572.	12.6	193
98	Novel Ribonucleic Acid Species Accumulated in the Dark in the Blue-Green Alga Anacystis nidulans. Journal of Bacteriology, 1974, 118, 351-357.	2.2	12
99	Mutational Analysis of Dark Endogenous Metabolism in the Blue-Green Bacterium <i>Anacystis nidulans</i>. Journal of Bacteriology, 1974, 119, 677-683.	2.2	50
100	Postmaturational Cleavage of 23 s Ribosomal Ribonucleic Acid and Its Metabolic Control in the Blue-Green Alga Anacystis nidulans. Journal of Bacteriology, 1973, 113, 1256-1263.	2.2	63
101	Ribosomal Ribonucleic Acid Synthesis and Maturation in the Blue-Green Alga Anacystis nidulans. Journal of Bacteriology, 1972, 111, 316-324.	2.2	41
102	The Root of the Tree: Lateral Gene Transfer and the Nature of the Domains. , 0, , 29-37.		1
103	A Chemostat Model for Evolution by Persistence: Clade Selection and its Explanatory Autonomy. Philosophy of Science, 0, , 1-47.	1.0	0