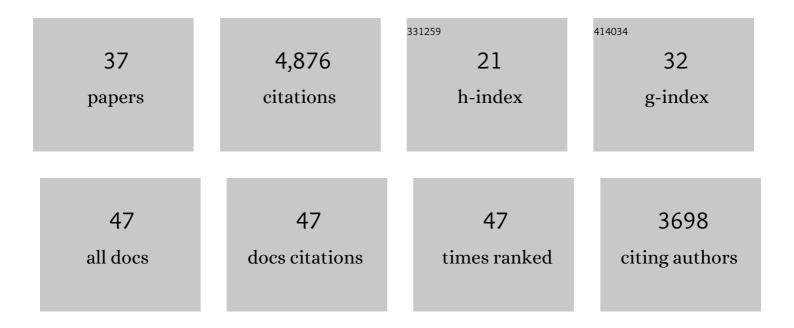
Daniel M Weinreich

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Darwinian Evolution Can Follow Only Very Few Mutational Paths to Fitter Proteins. Science, 2006, 312, 111-114.	6.0	1,266
2	Missense meanderings in sequence space: a biophysical view of protein evolution. Nature Reviews Genetics, 2005, 6, 678-687.	7.7	586
3	Empirical fitness landscapes reveal accessible evolutionary paths. Nature, 2007, 445, 383-386.	13.7	510
4	Perspective: Sign epistasis and genetic constraint on evolutionary trajectories. Evolution; International Journal of Organic Evolution, 2005, 59, 1165-74.	1.1	401
5	PERSPECTIVE: SIGN EPISTASIS AND GENETIC COSTRAINT ON EVOLUTIONARY TRAJECTORIES. Evolution; International Journal of Organic Evolution, 2005, 59, 1165-1174.	1.1	384
6	Stepwise acquisition of pyrimethamine resistance in the malaria parasite. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12025-12030.	3.3	241
7	Should evolutionary geneticists worry about higher-order epistasis?. Current Opinion in Genetics and Development, 2013, 23, 700-707.	1.5	236
8	PERSPECTIVE:SIGN EPISTASIS AND GENETIC CONSTRAINT ON EVOLUTIONARY TRAJECTORIES. Evolution; International Journal of Organic Evolution, 2005, 59, 1165.	1.1	227
9	RAPID EVOLUTIONARY ESCAPE BY LARGE POPULATIONS FROM LOCAL FITNESS PEAKS IS LIKELY IN NATURE. Evolution; International Journal of Organic Evolution, 2005, 59, 1175-1182.	1.1	201
10	Contrasting Patterns of Nonneutral Evolution in Proteins Encoded in Nuclear and Mitochondrial Genomes. Genetics, 2000, 156, 385-399.	1.2	111
11	Rapid evolutionary escape by large populations from local fitness peaks is likely in nature. Evolution; International Journal of Organic Evolution, 2005, 59, 1175-82.	1.1	91
12	Adaptive Landscape by Environment Interactions Dictate Evolutionary Dynamics in Models of Drug Resistance. PLoS Computational Biology, 2016, 12, e1004710.	1.5	71
13	The Influence of Higher-Order Epistasis on Biological Fitness Landscape Topography. Journal of Statistical Physics, 2018, 172, 208-225.	0.5	64
14	RAPID EVOLUTIONARY ESCAPE BY LARGE POPULATIONS FROM LOCAL FITNESS PEAKS IS LIKELY IN NATURE. Evolution; International Journal of Organic Evolution, 2005, 59, 1175.	1.1	58
15	Quantitative Description of a Protein Fitness Landscape Based on Molecular Features. Molecular Biology and Evolution, 2015, 32, 1774-1787.	3.5	57
16	Measuring epistasis in fitness landscapes: The correlation of fitness effects of mutations. Journal of Theoretical Biology, 2016, 396, 132-143.	0.8	55
17	Enzyme efficiency but not thermostability drives cefotaxime resistance evolution in TEM-1 β-lactamase. Molecular Biology and Evolution, 2017, 34, msx053.	3.5	48
18	GENOME STRUCTURE AND THE BENEFIT OF SEX. Evolution; International Journal of Organic Evolution, 2011, 65, 523-536.	1.1	38

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#	Article	IF	CITATIONS
19	Sign of selection on mutation rate modifiers depends on population size. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3422-3427.	3.3	36
20	The Rank Ordering of Genotypic Fitness Values Predicts Genetic Constraint on Natural Selection on Landscapes Lacking Sign Epistasis. Genetics, 2005, 171, 1397-1405.	1.2	34
21	FISHER'S GEOMETRIC MODEL OF ADAPTATION MEETS THE FUNCTIONAL SYNTHESIS: DATA ON PAIRWISE EPISTASIS FOR FITNESS YIELDS INSIGHTS INTO THE SHAPE AND SIZE OF PHENOTYPE SPACE. Evolution; International Journal of Organic Evolution, 2013, 67, 2957-2972.	1.1	32
22	Evolutionary constraints in fitness landscapes. Heredity, 2018, 121, 466-481.	1.2	26
23	Predicting the viability of beta-lactamase: How folding and binding free energies correlate with beta-lactamase fitness. PLoS ONE, 2020, 15, e0233509.	1.1	26
24	Variability in Fitness Effects Can Preclude Selection of the Fittest. Annual Review of Ecology, Evolution, and Systematics, 2017, 48, 399-417.	3.8	18
25	Temporal Constraints on the Incorporation of Regulatory Mutants in Evolutionary Pathways. Molecular Biology and Evolution, 2009, 26, 2455-2462.	3.5	12
26	Patterns of musculoskeletal growth and dimensional changes associated with selection and developmental plasticity in domestic and wild strain turkeys. Ecology and Evolution, 2018, 8, 3229-3239.	0.8	9
27	Genetically Determined Variation in Lysis Time Variance in the Bacteriophage φX174. G3: Genes, Genomes, Genetics, 2016, 6, 939-955.	0.8	8
28	High-throughput identification of genetic interactions in HIV-1. Nature Genetics, 2011, 43, 398-400.	9.4	7
29	Selection on mutators is not frequency-dependent. ELife, 2019, 8, .	2.8	6
30	Herding an evolving biological population with quantum control tools. Nature Physics, 2021, 17, 17-19.	6.5	5
31	Migration promotes mutator alleles in subdivided populations. Evolution; International Journal of Organic Evolution, 2019, 73, 600-608.	1.1	4
32	Density fluctuations, homeostasis, and reproduction effects in bacteria. Communications Biology, 2022, 5, 397.	2.0	2
33	Title is missing!. , 2020, 15, e0233509.		0
34	Title is missing!. , 2020, 15, e0233509.		0
35	Title is missing!. , 2020, 15, e0233509.		0

36 Title is missing!. , 2020, 15, e0233509.

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#	Article	IF	CITATIONS
37	Covalent docking and molecular dynamics simulations reveal the specificity-shifting mutations Ala237Arg and Ala237Lys in TEM beta-lactamase. PLoS Computational Biology, 2022, 18, e1009944.	1.5	0