

Itay Mayrose

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67
papers

9,884
citations

33
h-index

75
g-index

75
ext. papers

13,072
ext. citations

8.4
avg, IF

6.27
L-index

#	Paper	IF	Citations
67	Clumpak: a program for identifying clustering modes and packaging population structure inferences across K. <i>Molecular Ecology Resources</i> , 2015 , 15, 1179-91	8.4	1526
66	ConSurf 2016: an improved methodology to estimate and visualize evolutionary conservation in macromolecules. <i>Nucleic Acids Research</i> , 2016 , 44, W344-50	20.1	1295
65	ConSurf 2005: the projection of evolutionary conservation scores of residues on protein structures. <i>Nucleic Acids Research</i> , 2005 , 33, W299-302	20.1	1043
64	The frequency of polyploid speciation in vascular plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 13875-9	11.5	847
63	Sex determination: why so many ways of doing it?. <i>PLoS Biology</i> , 2014 , 12, e1001899	9.7	606
62	Rate4Site: an algorithmic tool for the identification of functional regions in proteins by surface mapping of evolutionary determinants within their homologues. <i>Bioinformatics</i> , 2002 , 18 Suppl 1, S71-7	7.2	436
61	TRY plant trait database - enhanced coverage and open access. <i>Global Change Biology</i> , 2020 , 26, 119-188	11.4	399
60	Comparison of site-specific rate-inference methods for protein sequences: empirical Bayesian methods are superior. <i>Molecular Biology and Evolution</i> , 2004 , 21, 1781-91	8.3	336
59	The Chromosome Counts Database (CCDB) - a community resource of plant chromosome numbers. <i>New Phytologist</i> , 2015 , 206, 19-26	9.8	326
58	ConSurf: Using Evolutionary Data to Raise Testable Hypotheses about Protein Function. <i>Israel Journal of Chemistry</i> , 2013 , 53, 199-206	3.4	325
57	Recently formed polyploid plants diversify at lower rates. <i>Science</i> , 2011 , 333, 1257	33.3	308
56	Computational characterization of B-cell epitopes. <i>Molecular Immunology</i> , 2008 , 45, 3477-89	4.3	156
55	Probabilistic models of chromosome number evolution and the inference of polyploidy. <i>Systematic Biology</i> , 2010 , 59, 132-44	8.4	148
54	Epitopia: a web-server for predicting B-cell epitopes. <i>BMC Bioinformatics</i> , 2009 , 10, 287	3.6	138
53	Model selection may not be a mandatory step for phylogeny reconstruction. <i>Nature Communications</i> , 2019 , 10, 934	17.4	136
52	Whole-genome duplication as a key factor in crop domestication. <i>Nature Plants</i> , 2016 , 2, 16115	11.5	119
51	Pepitope: epitope mapping from affinity-selected peptides. <i>Bioinformatics</i> , 2007 , 23, 3244-6	7.2	115

50	Selecton: a server for detecting evolutionary forces at a single amino-acid site. <i>Bioinformatics</i> , 2005 , 21, 2101-3	7.2	114
49	ChromEvol: assessing the pattern of chromosome number evolution and the inference of polyploidy along a phylogeny. <i>Molecular Biology and Evolution</i> , 2014 , 31, 1914-22	8.3	94
48	Body sizes and diversification rates of lizards, snakes, amphisbaenians and the tuatara. <i>Global Ecology and Biogeography</i> , 2016 , 25, 187-197	6.1	92
47	A machine-learning approach for predicting B-cell epitopes. <i>Molecular Immunology</i> , 2009 , 46, 840-7	4.3	89
46	Epitope mapping using combinatorial phage-display libraries: a graph-based algorithm. <i>Nucleic Acids Research</i> , 2007 , 35, 69-78	20.1	88
45	The global biogeography of polyploid plants. <i>Nature Ecology and Evolution</i> , 2019 , 3, 265-273	12.3	86
44	A gamma mixture model better accounts for among site rate heterogeneity. <i>Bioinformatics</i> , 2005 , 21 Suppl 2, ii151-8	7.2	80
43	A machine learning approach for predicting CRISPR-Cas9 cleavage efficiencies and patterns underlying its mechanism of action. <i>PLoS Computational Biology</i> , 2017 , 13, e1005807	5	73
42	Stepwise prediction of conformational discontinuous B-cell epitopes using the Mapitope algorithm. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007 , 68, 294-304	4.2	69
41	Increased growth in sunflower correlates with reduced defences and altered gene expression in response to biotic and abiotic stress. <i>Molecular Ecology</i> , 2011 , 20, 4683-94	5.7	56
40	Methods for studying polyploid diversification and the dead end hypothesis: a reply to Soltis et al. (2014). <i>New Phytologist</i> , 2015 , 206, 27-35	9.8	55
39	Karyotypic changes through dysploidy persist longer over evolutionary time than polyploid changes. <i>PLoS ONE</i> , 2014 , 9, e85266	3.7	51
38	The DFNA15 deafness mutation affects POU4F3 protein stability, localization, and transcriptional activity. <i>Molecular and Cellular Biology</i> , 2003 , 23, 7957-64	4.8	50
37	Towards realistic codon models: among site variability and dependency of synonymous and non-synonymous rates. <i>Bioinformatics</i> , 2007 , 23, i319-27	7.2	46
36	Macroevolutionary synthesis of flowering plant sexual systems. <i>Evolution; International Journal of Organic Evolution</i> , 2017 , 71, 898-912	3.8	42
35	Macroevolutionary Patterns of Flowering Plant Speciation and Extinction. <i>Annual Review of Plant Biology</i> , 2018 , 69, 685-706	30.7	40
34	Evolutionary models accounting for layers of selection in protein-coding genes and their impact on the inference of positive selection. <i>Molecular Biology and Evolution</i> , 2011 , 28, 3297-308	8.3	32
33	Site-specific evolutionary rate inference: taking phylogenetic uncertainty into account. <i>Journal of Molecular Evolution</i> , 2005 , 60, 345-53	3.1	30

32	Broad phylogenetic analysis of cation/proton antiporters reveals transport determinants. <i>Nature Communications</i> , 2018 , 9, 4205	17.4	30
31	Polyploidy and sexual system in angiosperms: Is there an association?. <i>American Journal of Botany</i> , 2016 , 103, 1223-35	2.7	29
30	Sex determination, longevity, and the birth and death of reptilian species. <i>Ecology and Evolution</i> , 2016 , 6, 5207-20	2.8	29
29	A likelihood method for detecting trait-dependent shifts in the rate of molecular evolution. <i>Molecular Biology and Evolution</i> , 2011 , 28, 759-70	8.3	28
28	Dioecy does not consistently accelerate or slow lineage diversification across multiple genera of angiosperms. <i>New Phytologist</i> , 2016 , 209, 1290-300	9.8	27
27	Multispeed genome diploidization and diversification after an ancient allopolyploidization. <i>Molecular Ecology</i> , 2017 , 26, 6445-6462	5.7	26
26	Interaction among ploidy, breeding system and lineage diversification. <i>New Phytologist</i> , 2019 , 224, 1252-1265	12.65	25
25	Comparative analysis reveals that polyploidy does not decelerate diversification in fish. <i>Journal of Evolutionary Biology</i> , 2014 , 27, 391-403	2.3	25
24	An evolutionary analysis of lateral gene transfer in thymidylate synthase enzymes. <i>Systematic Biology</i> , 2010 , 59, 212-25	8.4	24
23	An Integrated Model of Phenotypic Trait Changes and Site-Specific Sequence Evolution. <i>Systematic Biology</i> , 2017 , 66, 917-933	8.4	22
22	Phylogenetic evidence for cladogenetic polyploidization in land plants. <i>American Journal of Botany</i> , 2016 , 103, 1252-8	2.7	22
21	Synonymous site conservation in the HIV-1 genome. <i>BMC Evolutionary Biology</i> , 2013 , 13, 164	3	21
20	Meiotic drive shapes rates of karyotype evolution in mammals. <i>Evolution; International Journal of Organic Evolution</i> , 2019 , 73, 511-523	3.8	17
19	Regulation of alternative splicing at the single-cell level. <i>Molecular Systems Biology</i> , 2015 , 11, 845	12.2	15
18	COVID-19 pandemic-related lockdown: response time is more important than its strictness. <i>EMBO Molecular Medicine</i> , 2020 , 12, e13171	12	14
17	OneTwoTree: An online tool for phylogeny reconstruction. <i>Molecular Ecology Resources</i> , 2018 , 18, 1492-1499	14.99	13
16	CRISPyS: Optimal sgRNA Design for Editing Multiple Members of a Gene Family Using the CRISPR System. <i>Journal of Molecular Biology</i> , 2018 , 430, 2184-2195	6.5	10
15	Heterogeneity in the rate of molecular sequence evolution substantially impacts the accuracy of detecting shifts in diversification rates. <i>Evolution; International Journal of Organic Evolution</i> , 2020 , 74, 1620-1639	3.8	8

14	ModelTeller: Model Selection for Optimal Phylogenetic Reconstruction Using Machine Learning. <i>Molecular Biology and Evolution</i> , 2020 , 37, 3338-3352	8.3	8
13	The Evolution of Chromosome Numbers: Mechanistic Models and Experimental Approaches. <i>Genome Biology and Evolution</i> , 2021 , 13,	3.9	8
12	TraitRateProp: a web server for the detection of trait-dependent evolutionary rate shifts in sequence sites. <i>Nucleic Acids Research</i> , 2017 , 45, W260-W264	20.1	6
11	The Interplay between Scientific Overlap and Cooperation and the Resulting Gain in Co-Authorship Interactions. <i>PLoS ONE</i> , 2015 , 10, e0137856	3.7	6
10	Harnessing machine learning to guide phylogenetic-tree search algorithms. <i>Nature Communications</i> , 2021 , 12, 1983	17.4	5
9	Model adequacy tests for probabilistic models of chromosome-number evolution. <i>New Phytologist</i> , 2021 , 229, 3602-3613	9.8	4
8	A Probabilistic Model for Indel Evolution: Differentiating Insertions from Deletions. <i>Molecular Biology and Evolution</i> , 2021 , 38, 5769-5781	8.3	4
7	Probabilistic Methods and Rate Heterogeneity 2010 , 257-280		3
6	Phenology and polyploidy in annual <i>Brachypodium</i> species (Poaceae) along the aridity gradient in Israel. <i>Journal of Systematics and Evolution</i> , 2020 , 58, 189-199	2.9	3
5	A Codon Model for Associating Phenotypic Traits with Altered Selective Patterns of Sequence Evolution. <i>Systematic Biology</i> , 2021 , 70, 608-622	8.4	2
4	Interaction Between Ploidy, Breeding System, and Lineage Diversification		1
3	Panoramic: A package for constructing eukaryotic pan-genomes. <i>Molecular Ecology Resources</i> , 2021 , 21, 1393-1403	8.4	1
2	Bee flowers drive macroevolutionary diversification in long-horned bees. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021 , 288, 20210533	4.4	1
1	Mechanisms Underlying Host Range Variation in Flavivirus: From Empirical Knowledge to Predictive Models. <i>Journal of Molecular Evolution</i> , 2021 , 89, 329-340	3.1	0