

Patrik Nosil

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.

95
papers

12,092
citations

49
h-index

100
g-index

100
ext. papers

14,220
ext. citations

8
avg, IF

7.06
L-index

#	Paper	IF	Citations
95	Ecological speciation. <i>Ecology Letters</i> , 2005 , 8, 336-352	10	1352
94	Ecological Speciation 2012 ,		911
93	Divergent selection and heterogeneous genomic divergence. <i>Molecular Ecology</i> , 2009 , 18, 375-402	5.7	836
92	The genomics of speciation-with-gene-flow. <i>Trends in Genetics</i> , 2012 , 28, 342-50	8.5	541
91	REPRODUCTIVE ISOLATION CAUSED BY NATURAL SELECTION AGAINST IMMIGRANTS FROM DIVERGENT HABITATS. <i>Evolution; International Journal of Organic Evolution</i> , 2005 , 59, 705-719	3.8	531
90	Ecological explanations for (incomplete) speciation. <i>Trends in Ecology and Evolution</i> , 2009 , 24, 145-56	10.9	502
89	Perspective: Reproductive isolation caused by natural selection against immigrants from divergent habitats. <i>Evolution; International Journal of Organic Evolution</i> , 2005 , 59, 705-19	3.8	488
88	Magic traits in speciation: Magic but not rare?. <i>Trends in Ecology and Evolution</i> , 2011 , 26, 389-97	10.9	398
87	Host-plant adaptation drives the parallel evolution of reproductive isolation. <i>Nature</i> , 2002 , 417, 440-3	50.4	379
86	Heterogeneous genomic differentiation between walking-stick ecotypes: "isolation by adaptation" and multiple roles for divergent selection. <i>Evolution; International Journal of Organic Evolution</i> , 2008 , 62, 316-36	3.8	349
85	Speciation with gene flow could be common. <i>Molecular Ecology</i> , 2008 , 17, 2103-6	5.7	331
84	Ecological divergence exhibits consistently positive associations with reproductive isolation across disparate taxa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 3209-13	11.5	325
83	Stick insect genomes reveal natural selection's role in parallel speciation. <i>Science</i> , 2014 , 344, 738-42	33.3	315
82	Genomic divergence during speciation: causes and consequences. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012 , 367, 332-42	5.8	246
81	Widespread genomic divergence during sympatric speciation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 9724-9	11.5	229
80	The genes underlying the process of speciation. <i>Trends in Ecology and Evolution</i> , 2011 , 26, 160-7	10.9	217
79	Ecological speciation in phytophagous insects. <i>Entomologia Experimentalis Et Applicata</i> , 2010 , 134, 1-27	2.1	205

78	THE EFFICACY OF DIVERGENCE HITCHHIKING IN GENERATING GENOMIC ISLANDS DURING ECOLOGICAL SPECIATION. <i>Evolution; International Journal of Organic Evolution</i> , 2010 , 64, 1729-1747	3.8	204
77	Experimental evidence that predation promotes divergence in adaptive radiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 9090-5	11.5	197
76	Divergent host plant adaptation and reproductive isolation between ecotypes of <i>Timema cristinae</i> walking sticks. <i>American Naturalist</i> , 2007 , 169, 151-62	3.7	185
75	Tipping points in the dynamics of speciation. <i>Nature Ecology and Evolution</i> , 2017 , 1, 1	12.3	181
74	Natural selection in populations subject to a migration load. <i>Evolution; International Journal of Organic Evolution</i> , 2007 , 61, 2229-43	3.8	154
73	Reproductive isolation caused by visual predation on migrants between divergent environments. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004 , 271, 1521-8	4.4	132
72	Theoretical models of the influence of genomic architecture on the dynamics of speciation. <i>Molecular Ecology</i> , 2014 , 23, 4074-88	5.7	126
71	Conflictual speciation: species formation via genomic conflict. <i>Trends in Ecology and Evolution</i> , 2013 , 28, 48-57	10.9	112
70	Chromosomal inversions and species differences: when are genes affecting adaptive divergence and reproductive isolation expected to reside within inversions?. <i>Evolution; International Journal of Organic Evolution</i> , 2009 , 63, 3061-75	3.8	108
69	The genetics and ecology of reinforcement: implications for the evolution of prezygotic isolation in sympatry and beyond. <i>Annals of the New York Academy of Sciences</i> , 2009 , 1168, 156-82	6.5	101
68	The role of gene expression in ecological speciation. <i>Annals of the New York Academy of Sciences</i> , 2010 , 1206, 110-29	6.5	97
67	Establishment of new mutations under divergence and genome hitchhiking. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012 , 367, 461-74	5.8	96
66	Natural selection and the predictability of evolution in stick insects. <i>Science</i> , 2018 , 359, 765-770	33.3	95
65	Ecosystem tipping points in an evolving world. <i>Nature Ecology and Evolution</i> , 2019 , 3, 355-362	12.3	95
64	Experimental evidence for ecological selection on genome variation in the wild. <i>Ecology Letters</i> , 2014 , 17, 369-79	10	94
63	Experimental evidence of genome-wide impact of ecological selection during early stages of speciation-with-gene-flow. <i>Ecology Letters</i> , 2015 , 18, 817-825	10	94
62	Genetic hitchhiking and the dynamic buildup of genomic divergence during speciation with gene flow. <i>Evolution; International Journal of Organic Evolution</i> , 2013 , 67, 2577-91	3.8	92
61	Transitions between phases of genomic differentiation during stick-insect speciation. <i>Nature Ecology and Evolution</i> , 2017 , 1, 82	12.3	91

60	Evolution of camouflage drives rapid ecological change in an insect community. <i>Current Biology</i> , 2013 , 23, 1835-43	6.3	84
59	The efficacy of divergence hitchhiking in generating genomic islands during ecological speciation. <i>Evolution; International Journal of Organic Evolution</i> , 2010 , 64, 1729-47	3.8	84
58	Genomic consequences of multiple speciation processes in a stick insect. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012 , 279, 5058-65	4.4	83
57	Ecological niche dimensionality and the evolutionary diversification of stick insects. <i>PLoS ONE</i> , 2008 , 3, e1907	3.7	73
56	The speed of ecological speciation. <i>Functional Ecology</i> , 2007 , 21, 455-464	5.6	73
55	Conditions for mutation-order speciation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011 , 278, 399-407	4.4	72
54	Natural selection and divergence in mate preference during speciation. <i>Genetica</i> , 2007 , 129, 309-27	1.5	67
53	Adaptive population divergence in cryptic color-pattern following a reduction in gene flow. <i>Evolution; International Journal of Organic Evolution</i> , 2009 , 63, 1902-12	3.8	61
52	Ecological divergence promotes the evolution of cryptic reproductive isolation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006 , 273, 991-7	4.4	59
51	Adaptive chromosomal divergence driven by mixed geographic mode of evolution. <i>Evolution; International Journal of Organic Evolution</i> , 2011 , 65, 2157-70	3.8	58
50	Selection on a genetic polymorphism counteracts ecological speciation in a stick insect. <i>Current Biology</i> , 2015 , 25, 1975-81	6.3	53
49	Genetic divergence along the speciation continuum: the transition from host race to species in <i>rhagoletis</i> (Diptera: tephritidae). <i>Evolution; International Journal of Organic Evolution</i> , 2013 , 67, 2561-76	3.8	53
48	Ernst Mayr and the integration of geographic and ecological factors in speciation. <i>Biological Journal of the Linnean Society</i> , 2008 , 95, 26-46	1.9	53
47	Lateral transfers of large DNA fragments spread functional genes among grasses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 4416-4425	11.5	52
46	Genome-wide congealing and rapid transitions across the speciation continuum during speciation with gene flow. <i>Journal of Heredity</i> , 2014 , 105 Suppl 1, 810-20	2.4	46
45	Long-term balancing selection on chromosomal variants associated with crypsis in a stick insect. <i>Molecular Ecology</i> , 2017 , 26, 6189-6205	5.7	45
44	Genome evolution and speciation: toward quantitative descriptions of pattern and process. <i>Evolution; International Journal of Organic Evolution</i> , 2013 , 67, 2461-7	3.8	41
43	Isolation by adaptation in <i>Neochlamisus</i> leaf beetles: host-related selection promotes neutral genomic divergence. <i>Molecular Ecology</i> , 2011 , 20, 4671-82	5.7	40

42	A test of genomic modularity among life-history adaptations promoting speciation with gene flow. <i>Molecular Ecology</i> , 2017 , 26, 3926-3942	5.7	38
41	Genome biogeography reveals the intraspecific spread of adaptive mutations for a complex trait. <i>Molecular Ecology</i> , 2016 , 25, 6107-6123	5.7	35
40	Genomic Differentiation during Speciation-with-Gene-Flow: Comparing Geographic and Host-Related Variation in Divergent Life History Adaptation in. <i>Genes</i> , 2018 , 9,	4.2	35
39	Genome-wide association mapping of phenotypic traits subject to a range of intensities of natural selection in <i>Timema cristinae</i> . <i>American Naturalist</i> , 2014 , 183, 711-27	3.7	35
38	Do highly divergent loci reside in genomic regions affecting reproductive isolation? A test using next-generation sequence data in <i>Timema</i> stick insects. <i>BMC Evolutionary Biology</i> , 2012 , 12, 164	3	31
37	Assessing when chromosomal rearrangements affect the dynamics of speciation: implications from computer simulations. <i>Frontiers in Genetics</i> , 2014 , 5, 295	4.5	29
36	Degree of sympatry affects reinforcement in <i>Drosophila</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2013 , 67, 868-72	3.8	26
35	How maladaptation can structure biodiversity: eco-evolutionary island biogeography. <i>Trends in Ecology and Evolution</i> , 2015 , 30, 154-60	10.9	23
34	Widespread yet heterogeneous genomic divergence. <i>Molecular Ecology</i> , 2012 , 21, 2829-32	5.7	23
33	Extremophile Poeciliidae: multivariate insights into the complexity of speciation along replicated ecological gradients. <i>BMC Evolutionary Biology</i> , 2016 , 16, 136	3	23
32	Color phenotypes are under similar genetic control in two distantly related species of <i>Timema</i> stick insect. <i>Evolution; International Journal of Organic Evolution</i> , 2016 , 70, 1283-96	3.8	20
31	Multilocus approaches for the measurement of selection on correlated genetic loci. <i>Molecular Ecology</i> , 2017 , 26, 365-382	5.7	20
30	Mechanisms of reinforcement in natural and simulated polymorphic populations. <i>Biological Journal of the Linnean Society</i> , 2008 , 95, 305-319	1.9	20
29	Niche dimensionality and ecological speciation 2001 , 127-154		19
28	Transitions from Single- to Multi-Locus Processes during Speciation with Gene Flow. <i>Genes</i> , 2018 , 9,	4.2	18
27	Large-scale mutation in the evolution of a gene complex for cryptic coloration. <i>Science</i> , 2020 , 369, 460-466	5.3	17
26	Standing geographic variation in eclosion time and the genomics of host race formation in fruit flies. <i>Ecology and Evolution</i> , 2019 , 9, 393-409	2.8	16
25	Observational evidence that maladaptive gene flow reduces patch occupancy in a wild insect metapopulation. <i>Evolution; International Journal of Organic Evolution</i> , 2016 , 70, 2879-2888	3.8	14

24	Keystone Genes. <i>Trends in Ecology and Evolution</i> , 2018 , 33, 689-700	10.9	13
23	Population-Specific Selection on Standing Variation Generated by Lateral Gene Transfers in a Grass. <i>Current Biology</i> , 2019 , 29, 3921-3927.e5	6.3	13
22	Ecology shapes epistasis in a genotype-phenotype-fitness map for stick insect colour. <i>Nature Ecology and Evolution</i> , 2020 , 4, 1673-1684	12.3	13
21	The role of structural genomic variants in population differentiation and ecotype formation in <i>Timema cristinae</i> walking sticks. <i>Molecular Ecology</i> , 2019 , 28, 1224-1237	5.7	13
20	De novo characterization of the <i>Timema cristinae</i> transcriptome facilitates marker discovery and inference of genetic divergence. <i>Molecular Ecology Resources</i> , 2012 , 12, 549-61	8.4	12
19	How many genetic changes create new species?. <i>Science</i> , 2021 , 371, 777-779	33.3	11
18	Frequency-dependent selection: when being different makes you not stand out. <i>Current Biology</i> , 2006 , 16, R806-8	6.3	10
17	Increasing our ability to predict contemporary evolution. <i>Nature Communications</i> , 2020 , 11, 5592	17.4	8
16	Can the genomics of ecological speciation be predicted across the divergence continuum from host races to species? A case study in. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020 , 375, 20190534	5.8	8
15	Biomarker response of Mediterranean mussels <i>Mytilus galloprovincialis</i> regarding environmental conditions, pollution impact and seasonal effects. <i>Science of the Total Environment</i> , 2019 , 694, 133470	10.2	6
14	Adaptive zones shape the magnitude of premating reproductive isolation in stick insects. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020 , 375, 20190541	5.8	6
13	Functional Genomics Offers New Tests of Speciation Hypotheses. <i>Trends in Ecology and Evolution</i> , 2020 , 35, 968-971	10.9	4
12	Inversion breakpoints and the evolution of supergenes. <i>Molecular Ecology</i> , 2021 , 30, 2738-2755	5.7	4
11	Local and system-wide adaptation is influenced by population connectivity. <i>Conservation Genetics</i> , 2019 , 20, 45-57	2.6	3
10	Evolution: Sex Limits Adaptation. <i>Current Biology</i> , 2015 , 25, R613-6	6.3	2
9	Magic traits, pleiotropy and effect sizes: a response to Haller et al.. <i>Trends in Ecology and Evolution</i> , 2012 , 27, 5-6	10.9	2
8	Transitions from Single- to Multi-locus Processes during Speciation		2
7	Low dispersal and ploidy differences in a grass maintain photosynthetic diversity despite gene flow and habitat overlap. <i>Molecular Ecology</i> , 2021 , 30, 2116-2130	5.7	2

6	Testing the potential contribution of Wolbachia to speciation when cytoplasmic incompatibility becomes associated with host-related reproductive isolation. <i>Molecular Ecology</i> , 2021 ,	5.7	2
5	Eco-evolutionary effects of keystone genes.. <i>Science</i> , 2022 , 376, 30-31	33.3	1
4	Biodiversity, resilience and the stability of evolutionary systems. <i>Current Biology</i> , 2021 , 31, R1149-R11536.3		0
3	Exploring context dependency in eco-evolutionary patterns with the stick insect. <i>Ecology and Evolution</i> , 2020 , 10, 8197-8209	2.8	0
2	Frequency dependence and the predictability of evolution in a changing environment.. <i>Evolution Letters</i> , 2022 , 6, 21-33	5.3	0
1	Phenotypic plasticity in a gene-centric world. <i>Current Biology</i> , 2022 , 32, R145-R147	6.3	