

François Munoz

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

4,369
citations

172457

29
h-index

123424

61
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112
all docs

112
docs citations

112
times ranked

7920
citing authors

#	ARTICLE	IF	CITATIONS
1	TRY plant trait database – enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	9.5	1,038
2	Community ecology in the age of multivariate multiscale spatial analysis. <i>Ecological Monographs</i> , 2012, 82, 257-275.	5.4	506
3	Ecophylogenetics: advances and perspectives. <i>Biological Reviews</i> , 2012, 87, 769-785.	10.4	341
4	Functional Rarity: The Ecology of Outliers. <i>Trends in Ecology and Evolution</i> , 2017, 32, 356-367.	8.7	258
5	The role of epiphytism in architecture and evolutionary constraint within mycorrhizal networks of tropical orchids. <i>Molecular Ecology</i> , 2012, 21, 5098-5109.	3.9	164
6	Mechanisms of ecological succession: insights from plant functional strategies. <i>Oikos</i> , 2012, 121, 1761-1770.	2.7	114
7	funrar: An R package to characterize functional rarity. <i>Diversity and Distributions</i> , 2017, 23, 1365-1371.	4.1	90
8	What it takes to invade grassland ecosystems: traits, introduction history and filtering processes. <i>Ecology Letters</i> , 2016, 19, 219-229.	6.4	86
9	Phylogenetic turnover in tropical tree communities: impact of environmental filtering, biogeography and mesoclimatic niche conservatism. <i>Global Ecology and Biogeography</i> , 2012, 21, 1007-1016.	5.8	84
10	What makes a weed a weed? A large-scale evaluation of arable weeds through a functional lens. <i>American Journal of Botany</i> , 2019, 106, 90-100.	1.7	63
11	The dimensionality and structure of species trait spaces. <i>Ecology Letters</i> , 2021, 24, 1988-2009.	6.4	63
12	Two dimensions define the variation of fine root traits across plant communities under the joint influence of ecological succession and annual mowing. <i>Journal of Ecology</i> , 2018, 106, 2031-2042.	4.0	60
13	Teachers' conceptions of nature and environment in 16 countries. <i>Journal of Environmental Psychology</i> , 2009, 29, 407-413.	5.1	57
14	ALLEE EFFECT AND SELF-FERTILIZATION IN HERMAPHRODITES: REPRODUCTIVE ASSURANCE IN A STRUCTURED METAPOPOPULATION. <i>Evolution; International Journal of Organic Evolution</i> , 2008, 62, 2558-2569.	2.3	54
15	How to design trait-based analyses of community assembly mechanisms: Insights and guidelines from a literature review. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2017, 25, 29-44.	2.7	53
16	Assessing metacommunity processes through signatures in spatiotemporal turnover of community composition. <i>Ecology Letters</i> , 2020, 23, 1330-1339.	6.4	47
17	Continental-scale patterns of <i>Cecropia</i> reproductive phenology: evidence from herbarium specimens. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 2437-2445.	2.6	46
18	Recent declines and range changes of orchids in Western Europe (France, Belgium and Luxembourg). <i>Biological Conservation</i> , 2015, 190, 133-141.	4.1	44

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19	ESTIMATING PARAMETERS OF NEUTRAL COMMUNITIES: FROM ONE SINGLE LARGE TO SEVERAL SMALL SAMPLES. <i>Ecology</i> , 2007, 88, 2482-2488.	3.2	40
20	Statistical ecology comes of age. <i>Biology Letters</i> , 2014, 10, 20140698.	2.3	40
21	Vegetation ecology meets ecosystem science: Permanent grasslands as a functional biogeography case study. <i>Science of the Total Environment</i> , 2015, 534, 43-51.	8.0	38
22	CSR ecological strategies and plant mating systems: outcrossing increases with competitiveness but stress tolerance is related to mixed mating. <i>Oikos</i> , 2016, 125, 1296-1303.	2.7	38
23	Sensitivity of community-level trait-environment relationships to data representativeness: A test for functional biogeography. <i>Global Ecology and Biogeography</i> , 2017, 26, 729-739.	5.8	37
24	Plant community structure and nitrogen inputs modulate the climate signal on leaf traits. <i>Global Ecology and Biogeography</i> , 2017, 26, 1138-1152.	5.8	37
25	Phylogeography and niche modelling of the relict plant <i>Amborella trichopoda</i> (Amborellaceae) reveal multiple Pleistocene refugia in New Caledonia. <i>Molecular Ecology</i> , 2013, 22, 6163-6178.	3.9	35
26	ecolottery: Simulating and assessing community assembly with environmental filtering and neutral dynamics in scpr . <i>Methods in Ecology and Evolution</i> , 2018, 9, 693-703.	5.2	35
27	Functional rarity of coral reef fishes at the global scale: Hotspots and challenges for conservation. <i>Biological Conservation</i> , 2018, 226, 288-299.	4.1	35
28	Generalist plants are more competitive and more functionally similar to each other than specialist plants: insights from network analyses. <i>Journal of Biogeography</i> , 2020, 47, 1922-1933.	3.0	35
29	Convolutional neural networks improve species distribution modelling by capturing the spatial structure of the environment. <i>PLoS Computational Biology</i> , 2021, 17, e1008856.	3.2	35
30	Beta Diversity in Spatially Implicit Neutral Models: A New Way to Assess Species Migration. <i>American Naturalist</i> , 2008, 172, 116-127.	2.1	32
31	From the Neutral Theory to a Comprehensive and Multiscale Theory of Ecological Equivalence. <i>Quarterly Review of Biology</i> , 2016, 91, 321-342.	0.1	31
32	Into the functional ecology of ectomycorrhizal communities: environmental filtering of enzymatic activities. <i>Journal of Ecology</i> , 2016, 104, 1585-1598.	4.0	28
33	Bias in presence-only niche models related to sampling effort and species niches: Lessons for background point selection. <i>PLoS ONE</i> , 2020, 15, e0232078.	2.5	26
34	Plant community impact on productivity: Trait diversity or key(stone) species effects?. <i>Ecology Letters</i> , 2022, 25, 913-925.	6.4	26
35	Beyond ectomycorrhizal bipartite networks: projected networks demonstrate contrasted patterns between early- and late-successional plants in Corsica. <i>Frontiers in Plant Science</i> , 2015, 6, 881.	3.6	25
36	Species distribution modeling based on the automated identification of citizen observations. <i>Applications in Plant Sciences</i> , 2018, 6, e1029.	2.1	25

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37	Phylogenetic diversity in the Western Ghats biodiversity hotspot reflects environmental filtering and past niche diversification of trees. <i>Journal of Biogeography</i> , 2019, 46, 145-157.	3.0	25
38	Weeds: Against the Rules?. <i>Trends in Plant Science</i> , 2020, 25, 1107-1116.	8.8	25
39	What makes trait-abundance relationships when both environmental filtering and stochastic neutral dynamics are at play?. <i>Oikos</i> , 2018, 127, 1735-1745.	2.7	24
40	Growth rings in tropical trees: role of functional traits, environment, and phylogeny. <i>Trees - Structure and Function</i> , 2016, 30, 2153-2175.	1.9	23
41	Studying ecological communities from a neutral standpoint: A review of models' structure and parameter estimation. <i>Ecological Modelling</i> , 2009, 220, 2603-2610.	2.5	21
42	Is prediction of species richness from stacked species distribution models biased by habitat saturation?. <i>Ecological Indicators</i> , 2020, 111, 105970.	6.3	21
43	Unveiling ecological assembly rules from commonalities in trait distributions. <i>Ecology Letters</i> , 2021, 24, 1668-1680.	6.4	21
44	How citizen scientists contribute to monitor protected areas thanks to automatic plant identification tools. <i>Ecological Solutions and Evidence</i> , 2020, 1, e12023.	2.0	20
45	Distinguishing the signatures of local environmental filtering and regional trait range limits in the study of trait-environment relationships. <i>Oikos</i> , 2019, 128, 960-971.	2.7	19
46	Which Traits Make Weeds More Successful in Maize Crops? Insights from a Three-Decade Monitoring in France. <i>Plants</i> , 2020, 9, 40.	3.5	17
47	Functional biogeography of dietary strategies in birds. <i>Global Ecology and Biogeography</i> , 2019, 28, 1004-1017.	5.8	16
48	Extinction-immigration dynamics lag behind environmental filtering in shaping the composition of tropical dry forests within a changing landscape. <i>Ecography</i> , 2020, 43, 869-881.	4.5	16
49	Past potential habitats shed light on the biogeography of endemic tree species of the Western Ghats biodiversity hotspot, South India. <i>Journal of Biogeography</i> , 2016, 43, 899-910.	3.0	15
50	Ecological and biogeographical drivers of freshwater green algae biodiversity: from local communities to large-scale species pools of desmids. <i>Oecologia</i> , 2018, 186, 1017-1030.	2.0	15
51	Regional rainfall and local topography jointly drive tree community assembly in lowland tropical forests of New Caledonia. <i>Journal of Vegetation Science</i> , 2019, 30, 845-856.	2.2	15
52	Rebound in functional distinctiveness following warming and reduced fishing in the North Sea. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20201600.	2.6	14
53	How teachers' attitudes on GMO relate to their environmental values. <i>Journal of Environmental Psychology</i> , 2018, 57, 1-9.	5.1	13
54	How do habitat filtering and niche conservatism affect community composition at different taxonomic resolutions?. <i>Ecology</i> , 2014, 95, 2179-2191.	3.2	12

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55	Long-Distance Rescue and Slow Extinction Dynamics Govern Multiscale Metapopulations. <i>American Naturalist</i> , 2015, 186, 460-469.	2.1	12
56	Loss of pollinator specialization revealed by historical opportunistic data: Insights from network-based analysis. <i>PLoS ONE</i> , 2020, 15, e0235890.	2.5	12
57	Spectral analysis of simulated species distribution maps provides insights into metapopulation dynamics. <i>Ecological Modelling</i> , 2007, 205, 314-322.	2.5	11
58	Distance-based eigenvector maps (DBEM) to analyse metapopulation structure with irregular sampling. <i>Ecological Modelling</i> , 2009, 220, 2683-2689.	2.5	11
59	Mowing influences community-level variation in resource-use strategies and flowering phenology along an ecological succession on Mediterranean road slopes. <i>Applied Vegetation Science</i> , 2017, 20, 376-387.	1.9	11
60	Cushion-plant protection determines guild-dependent plant strategies in high-elevation peatlands of the Cordillera Real, Bolivian Andes. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2018, 30, 103-114.	2.7	11
61	Changing assembly processes during a primary succession of plant communities on Mediterranean roadcuts. <i>Journal of Plant Ecology</i> , 2013, 6, 19-28.	2.3	10
62	Deterministic processes drive functional and phylogenetic temporal changes of woody species in temperate forests in Northeast China. <i>Annals of Forest Science</i> , 2019, 76, 1.	2.0	10
63	Ecological Specialization and Rarity of Arable Weeds: Insights from a Comprehensive Survey in France. <i>Plants</i> , 2020, 9, 824.	3.5	10
64	In search of a health education model: teachers'™ conceptions in four Mediterranean countries. <i>Global Health Promotion</i> , 2011, 18, 5-15.	1.3	9
65	Characterizing the Phylogenetic Tree Community Structure of a Protected Tropical Rain Forest Area in Cameroon. <i>PLoS ONE</i> , 2014, 9, e98920.	2.5	8
66	Correlated percolation models of structured habitat in ecology. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 416, 290-308.	2.6	8
67	Diachronic variations in the distribution of butterflies and dragonflies linked to recent habitat changes in Western Europe. <i>Insect Conservation and Diversity</i> , 2019, 12, 49-68.	3.0	8
68	Analyzing snapshot diversity patterns with the Neutral Theory can show functional groups'™ effects on community assembly. <i>Ecology</i> , 2020, 101, e02977.	3.2	7
69	Do ecological specialization and functional traits explain the abundance-frequency relationship? Arable weeds as a case study. <i>Journal of Biogeography</i> , 2021, 48, 37-50.	3.0	7
70	Jointly estimating spatial sampling effort and habitat suitability for multiple species from opportunistic presence-only data. <i>Methods in Ecology and Evolution</i> , 2021, 12, 933-945.	5.2	6
71	Two disjunct Pleistocene populations and anisotropic postglacial expansion shaped the current genetic structure of the relict plant <i>Amborella trichopoda</i> . <i>PLoS ONE</i> , 2017, 12, e0183412.	2.5	6
72	Functionally distinct tree species support long-term productivity in extreme environments. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022, 289, 20211694.	2.6	6

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73	Equation or Algorithm: Differences and Choosing Between Them. <i>Acta Biotheoretica</i> , 2011, 59, 67-79.	1.5	5
74	Do Spatially-Implicit Estimates of Neutral Migration Comply with Seed Dispersal Data in Tropical Forests?. <i>PLoS ONE</i> , 2013, 8, e72497.	2.5	5
75	Drivers of tree community assembly during tropical forest post-fire succession in anthropogenic savannas. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2021, 52, 125630.	2.7	5
76	Deep Species Distribution Modeling From Sentinel-2 Image Time-Series: A Global Scale Analysis on the Orchid Family. <i>Frontiers in Plant Science</i> , 2022, 13, 839327.	3.6	5
77	Very High Resolution Species Distribution Modeling Based on Remote Sensing Imagery: How to Capture Fine-Grained and Large-Scale Vegetation Ecology With Convolutional Neural Networks?. <i>Frontiers in Plant Science</i> , 2022, 13, .	3.6	5
78	How does herbivory affect individuals and populations of the perennial herb <i>Paeonia officinalis</i> ?. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2011, 206, 544-549.	1.2	4
79	Comment on "Global Correlations in Tropical Tree Species Richness and Abundance Reject Neutrality". <i>Science</i> , 2012, 336, 1639-1639.	12.6	4
80	A Common Toolbox to Understand, Monitor or Manage Rarity? A Response to Carmona et al.. <i>Trends in Ecology and Evolution</i> , 2017, 32, 891-893.	8.7	4
81	Multiple facets of rarity among rain forest trees in the Western Ghats of India. <i>Biological Conservation</i> , 2018, 228, 110-119.	4.1	4
82	Disentangling the processes driving tree community assembly in a tropical biodiversity hotspot (New Tj ETQq0 0 0,rgBT /Overlock 10 TF	3.6	4
83	Designing sampling protocols for plant-pollinator interactions - timing, meteorology, flowering variations and failed captures matter. <i>Botany Letters</i> , 2021, 168, 324-332.	1.4	4
84	Securing Biodiversity, Functional Integrity, and Ecosystem Services in Drying River Networks (DRYvER). <i>Research Ideas and Outcomes</i> , 0, 7, .	1.0	4
85	Functional biogeography of weeds reveals how anthropogenic management blurs trait-climate relationships. <i>Journal of Vegetation Science</i> , 2021, 32, e12999.	2.2	3
86	Dissecting fine root diameter distribution at the community level captures root morphological diversity. <i>Oikos</i> , 2023, 2023, .	2.7	3
87	Estimating immigration in neutral communities: theoretical and practical insights into the sampling properties. <i>Methods in Ecology and Evolution</i> , 2012, 3, 152-161.	5.2	2
88	How Do Deep Convolutional SDM Trained on Satellite Images Unravel Vegetation Ecology?. <i>Lecture Notes in Computer Science</i> , 2021, , 148-158.	1.3	2
89	Sub-chapter 2.4.4. Using the past to predict the future. , 2016, , 377-386.		2
90	Successional dynamics shape tree diversity in evergreen forests of Côte d'Ivoire, West Africa. <i>Journal of Tropical Ecology</i> , 2020, 36, 182-189.	1.1	1

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91	Imprints of Past Habitat Area Reduction on Extant Taxonomic, Functional, and Phylogenetic Composition. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	2.2	1
92	Diversification and divergence of rainforest woody plants in South India and Madagascar relate to geomorphological history. <i>Journal of Biogeography</i> , 0, , .	3.0	1
93	Boundary constraints on population dynamics in a percolating habitat. <i>Ecological Complexity</i> , 2018, 36, 230-238.	2.9	0
94	Canopy and understorey tree guilds respond differently to the environment in an Indian rain forest. <i>Journal of Vegetation Science</i> , 2021, 32, e13075.	2.2	0
95	Automated Identification of Citizen Science Observations for Ecological Studies. <i>Biodiversity Information Science and Standards</i> , 0, 2, e25450.	0.0	0
96	When more competitors means less harvested resource. <i>Peer Community in Ecology</i> , 0, , .	0.0	0
97	How to evaluate and interpret the contribution of species turnover and interaction rewiring when comparing ecological networks?. <i>Peer Community in Ecology</i> , 0, , .	0.0	0