Francois Massol

List of Publications by Year in descending order

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79 papers	4,027 citations	136950 32 h-index	133252 59 g-index
90 all docs	90 docs citations	90 times ranked	6035 citing authors

#	Article	IF	Citations
1	Fruit fly phylogeny imprints bacterial gut microbiota. Evolutionary Applications, 2022, 15, 1621-1638.	3.1	5
2	Conceptualizing ecosystem services using socialâ€“ecological networks. Trends in Ecology and Evolution, 2022, 37, 211-222.	8.7	32
3	Advancing biological invasion hypothesis testing using functional diversity indices. Science of the Total Environment, 2022, 834, 155102.	8.0	29
4	Geographical variation of floral scents in generalist entomophilous species with variable pollinator communities. Functional Ecology, 2022, 36, 763-778.	3.6	4
5	Resurrecting Shannon's surprise: landscape heterogeneity complements information use and population growth. Oikos, 2022, 2022, .	2.7	2
6	Seasonal trajectories of plant-pollinator interaction networks differ following phenological mismatches along an urbanization gradient. Landscape and Urban Planning, 2022, 226, 104512.	7.5	10
7	A methodological framework to analyse determinants of hostâ€“microbiota networks, with an application to the relationships between Daphnia magna's gut microbiota and bacterioplankton. Journal of Animal Ecology, 2021, 90, 102-119.	2.8	8
8	Network analysis highlights increased generalisation and evenness of plant-pollinator interactions after conservation measures. Acta Oecologica, 2021, 110, 103689.	1.1	1
9	Once upon a time in the far south: Influence of local drivers and functional traits on plant invasion in the harsh subâ€Antarctic islands. Journal of Vegetation Science, 2021, 32, e13057.	2.2	7
10	Joint species distributions reveal the combined effects of host plants, abiotic factors and species competition as drivers of species abundances in fruit flies. Ecology Letters, 2021, 24, 1905-1916.	6.4	8
11	A unified model of species abundance, genetic diversity, and functional diversity reveals the mechanisms structuring ecological communities. Molecular Ecology Resources, 2021, 21, 2782-2800.	4.8	24
12	Investigation of Capitella spp. symbionts in the context of varying anthropic pressures: First occurrence of a transient advantageous epibiosis with the giant bacteria Thiomargarita sp. to survive seasonal increases of sulfides in sediments. Science of the Total Environment, 2021, 798, 149149.	8.0	5
13	Networking agrobiodiversity management to foster biodiversity-based agriculture. A review. Agronomy for Sustainable Development, 2021, 41, 1.	5.3	25
14	Genetic diversification and life-cycle of the polychaete Capitella spp. from the English Channel: evidence for sympatric cryptic species and alternative reproductive strategies. Marine Biology, 2021, 168, 1.	1.5	2
15	Coupling ecological network analysis with high-throughput sequencing-based surveys: Lessons from the next-generation biomonitoring project. Advances in Ecological Research, 2021, 65, 367-430.	2.7	5
16	Urbanization drives an early spring for plants but not for pollinators. Oikos, 2020, 129, 1681-1691.	2.7	51
17	Assessing metacommunity processes through signatures in spatiotemporal turnover of community composition. Ecology Letters, 2020, 23, 1330-1339.	6.4	47
18	Does phenology explain plantâ€“pollinator interactions at different latitudes? An assessment of its explanatory power in plantâ€“hoverfly networks in French calcareous grasslands. Oikos, 2020, 129, 753-765.	2.7	16

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19	Diet and Genotype of an Aquatic Invertebrate Affect the Composition of Free-Living Microbial Communities. Frontiers in Microbiology, 2020, 11, 380.	3.5	32
20	How biased is our perception of plant-pollinator networks? A comparison of visit- and pollen-based representations of the same networks. Acta Oecologica, 2020, 105, 103551.	1.1	20
21	Effect of pollination strategy, phylogeny and distribution on pollination niches of Euroâ€Mediterranean orchids. Journal of Ecology, 2019, 107, 478-490.	4.0	43
22	Arthropod diversity is governed by bottom-up and top-down forces in a tropical agroecosystem. Agriculture, Ecosystems and Environment, 2019, 285, 106623.	5.3	11
23	Unifying macroecology and macroevolution to answer fundamental questions about biodiversity. Global Ecology and Biogeography, 2019, 28, 1925-1936.	5.8	44
24	Wormsâ€™ Antimicrobial Peptides. Marine Drugs, 2019, 17, 512.	4.6	24
25	Transgenerational Immune Priming in the Field: Maternal Environmental Experience Leads to Differential Immune Transfer to Oocytes in the Marine Annelid Hediste diversicolor. Genes, 2019, 10, 989.	2.4	6
26	Metastasis and the evolution of dispersal. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20192186.	2.6	12
27	Habitat selection and the value of information in heterogenous landscapes. Oikos, 2019, 128, 457-467.	2.7	7
28	Immune failure reveals vulnerability of populations exposed to pollution in the bioindicator species Hediste diversicolor. Science of the Total Environment, 2018, 613-614, 1527-1542.	8.0	9
29	Plant Strategies along Resource Gradients. American Naturalist, 2018, 192, 360-378.	2.1	10
30	Biomonitoring for the 21st Century: Integrating Next-Generation Sequencing Into Ecological Network Analysis. Advances in Ecological Research, 2018, 58, 1-62.	2.7	68
31	Antagonistic evolution of an antibiotic and its molecular chaperone: how to maintain a vital ectosymbiosis in a highly fluctuating habitat. Scientific Reports, 2017, 7, 1454.	3.3	10
32	Mandrills use olfaction to socially avoid parasitized conspecifics. Science Advances, 2017, 3, e1601721.	10.3	132
33	How lifeâ€history traits affect ecosystem properties: effects of dispersal in metaâ€ecosystems. Oikos, 2017, 126, 532-546.	2.7	54
34	The contribution of speciesâ€“genetic diversity correlations to the understanding of community assembly rules. Oikos, 2017, 126, 759-771.	2.7	42
35	Changes in phytophagous insect host ranges following the invasion of their community: Longâ€term data for fruit flies. Ecology and Evolution, 2017, 7, 5181-5190.	1.9	27
36	Disentangling the co-structure of multilayer interaction networks: degree distribution and module composition in two-layer bipartite networks. Scientific Reports, 2017, 7, 15465.	3.3	16

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37	Do Socialâ€“Ecological Syndromes Predict Outcomes for Ecosystem Services? â€“ a Reply to Bodin et al.. Trends in Ecology and Evolution, 2017, 32, 549-552.	8.7	6
38	Life history and ecoâ€evolutionary dynamics in light of the gut microbiota. Oikos, 2017, 126, 508-531.	2.7	139
39	Contrasting predation services of predator and omnivore diversity mediated by invasive ants in a tropical agroecosystem. Basic and Applied Ecology, 2017, 18, 31-39.	2.7	6
40	Host manipulation by cancer cells: Expectations, facts, and therapeutic implications. BioEssays, 2016, 38, 276-285.	2.5	19
41	Stability and complexity in model meta-ecosystems. Nature Communications, 2016, 7, 12457.	12.8	149
42	Cancer and life-history traits: lessons from hostâ€“parasite interactions. Parasitology, 2016, 143, 533-541.	1.5	40
43	Networking Our Way to Better Ecosystem Service Provision. Trends in Ecology and Evolution, 2016, 31, 105-115.	8.7	72
44	The evolution of the competitionâ€“dispersal trade-off affects Î±- and Î²-diversity in a heterogeneous metacommunity. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20160548.	2.6	23
45	mangal â€“ making ecological network analysis simple. Ecography, 2016, 39, 384-390.	4.5	53
46	Geometrical envelopes: Extending graphical contemporary niche theory to communities and eco-evolutionary dynamics. Journal of Theoretical Biology, 2016, 407, 271-289.	1.7	22
47	No complexityâ€“stability relationship in empirical ecosystems. Nature Communications, 2016, 7, 12573.	12.8	121
48	Reciprocal immune benefit based on complementary production of antibiotics by the leech Hirudo verbana and its gut symbiont Aeromonas veronii. Scientific Reports, 2015, 5, 17498.	3.3	34
49	Consequences of information use in breeding habitat selection on the evolution of settlement time. Oikos, 2015, 124, 69-80.	2.7	18
50	Evolution of dispersal in spatially and temporally variable environments: The importance of life cycles. Evolution; International Journal of Organic Evolution, 2015, 69, 1925-1937.	2.3	30
51	10 Years Later. Advances in Ecological Research, 2015, 53, 1-53.	2.7	43
52	The Robustness of Plant-Pollinator Assemblages: Linking Plant Interaction Patterns and Sensitivity to Pollinator Loss. PLoS ONE, 2015, 10, e0117243.	2.5	34
53	A Network-Based Method to Detect Patterns of Local Crop Biodiversity. Advances in Ecological Research, 2015, , 259-320.	2.7	9
54	Persistence of Plants and Pollinators in the Face of Habitat Loss. Advances in Ecological Research, 2015, 53, 201-257.	2.7	17

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55	A Neutral Theory for Interpreting Correlations between Species and Genetic Diversity in Communities. American Naturalist, 2015, 185, 59-59.	2.1	42
56	Farmer seed networks make a limited contribution to agriculture? Four common misconceptions. Food Policy, 2015, 56, 41-50.	6.0	190
57	Networking Agroecology. Advances in Ecological Research, 2013, , 1-67.	2.7	50
58	Interaction Networks in Agricultural Landscape Mosaics. Advances in Ecological Research, 2013, , 291-338.	2.7	21
59	Estimating consensus and associated uncertainty between inherently different species distribution models. Methods in Ecology and Evolution, 2013, 4, 442-452.	5.2	34
60	Extending the concept of keystone species to communities and ecosystems. Ecology Letters, 2013, 16, 1-8.	6.4	114
61	A framework to compare theoretical predictions on trait evolution in temporally varying environments under different life cycles. Ecological Complexity, 2013, 16, 9-19.	2.9	9
62	Seed exchange networks for agrobiodiversity conservation. A review. Agronomy for Sustainable Development, 2013, 33, 151-175.	5.3	179
63	An empiricist's guide to theoretical predictions on the evolution of dispersal. Interface Focus, 2013, 3, 20130028.	3.0	105
64	Unifying sources and sinks in ecology andÂ<scp>E</scp>arth sciences. Biological Reviews, 2013, 88, 365-379.	10.4	85
65	How do genetic correlations affect species range shifts in a changing environment?. Ecology Letters, 2012, 15, 251-259.	6.4	96
66	Linking community and ecosystem dynamics through spatial ecology. Ecology Letters, 2011, 14, 313-323.	6.4	213
67	Trophic theory of island biogeography. Ecology Letters, 2011, 14, 1010-1016.	6.4	198
68	EVOLUTIONARY SYNDROMES LINKING DISPERSAL AND MATING SYSTEM: THE EFFECT OF AUTOCORRELATION IN POLLINATION CONDITIONS. Evolution; International Journal of Organic Evolution, 2011, 65, 591-598.	2.3	35
69	ASYMMETRIC PATCH SIZE DISTRIBUTION LEADS TO DISRUPTIVE SELECTION ON DISPERSAL. Evolution; International Journal of Organic Evolution, 2011, 65, 490-500.	2.3	52
70	WHEN SHOULD WE EXPECT THE EVOLUTIONARY ASSOCIATION OF SELFâ€FERTILIZATION AND DISPERSAL?. Evolution; International Journal of Organic Evolution, 2011, 65, 1217-1220.	2.3	24
71	Constraints on food chain length arising from regional metacommunity dynamics. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 3042-3049.	2.6	46
72	A user's guide to functional diversity indices. Ecological Monographs, 2010, 80, 469-484.	5.4	542

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73	Pollination Fluctuations Drive Evolutionary Syndromes Linking Dispersal and Mating System. American Naturalist, 2009, 174, 46-55.	2.1	83
74	The metapopulation fitness criterion: Proof and perspectives. Theoretical Population Biology, 2009, 75, 183-200.	1.1	25
75	Traditional Amerindian cultivators combine directional and ideotypic selection for sustainable management of cassava genetic diversity. Journal of Evolutionary Biology, 2009, 22, 1317-1325.	1.7	37
76	Drought reduced monoterpene emissions from the evergreen Mediterranean oak <i>Quercus ilex</i>: results from a throughfall displacement experiment. Biogeosciences, 2009, 6, 1167-1180.	3.3	83
77	Do animal personalities emerge?. Nature, 2008, 451, E8-E9.	27.8	9
78	The influence of trophic status and large-scale climatic change on the structure of fish communities in Perialpine lakes. Journal of Animal Ecology, 2007, 76, 538-551.	2.8	36
79	ï»¿The distribution and impact of an invasive plant species (Senecio inaequidens) on a dune building engineer (Calamagrostis arenaria). NeoBiota, 0, 72, 1-23.	1.0	2