Dominique Gravel

List of Publications by Year
in descending order

128 papers	10,841 citations	31976 53 h-index	38395 95 g-index
145 all docs	145 docs citations	145 times ranked	12675 citing authors

#	Article	IF	Citations
1	For the sake of resilience and multifunctionality, let's diversify planted forests!. Conservation Letters, 2022, 15, e12829.	5.7	124
2	The internal structure of metacommunities. Oikos, 2022, 2022, .	2.7	32
3	Ecological network complexity scales with area. Nature Ecology and Evolution, 2022, 6, 307-314.	7.8	35
4	Disentangling food-web environment relationships: A review with guidelines. Basic and Applied Ecology, 2022, 61, 102-115.	2.7	9
5	Regional variation drives differences in microbial communities associated with sugar maple across a latitudinal range. Ecology, 2022, 103, e3727.	3.2	7
6	A mechanistic model of functional response provides new insights into indirect interactions among arctic tundra prey. Ecology, 2022, 103, e3734.	3.2	11
7	Thermal mismatches in biological rates determine trophic control and biomass distribution under warming. Global Change Biology, 2021, 27, 257-269.	9.5	21
8	Climate affects neighbourâ€induced changes in leaf chemical defences and tree diversityâ€“herbivory relationships. Functional Ecology, 2021, 35, 67-81.	3.6	12
9	Climateâ€induced variation in the demography of 14 tree species is not sufficient to explain their distribution in eastern North America. Global Ecology and Biogeography, 2021, 30, 352-369.	5.8	6
10	Trait positions for elevated invasiveness in adaptive ecological networks. Biological Invasions, 2021, 23, 1965-1985.	2.4	18
11	Derivation of Predator Functional Responses Using a Mechanistic Approach in a Natural System. Frontiers in Ecology and Evolution, 2021, 9, .	2.2	24
12	Direct and Indirect Effects of Forest Anthropogenic Disturbance on Above and Below Ground Communities and Litter Decomposition. Ecosystems, 2021, 24, 1716-1737.	3.4	9
13	Global knowledge gaps in species interaction networks data. Journal of Biogeography, 2021, 48, 1552-1563.	3.0	38
14	Biodiversity as insurance: from concept to measurement and application. Biological Reviews, 2021, 96, 2333-2354.	10.4	101
15	Variable strength of predatorâ€mediated effects on species occurrence in an arctic terrestrial vertebrate community. Ecography, 2021, 44, 1236-1248.	4.5	11
16	Exotics are more complementary over time in tree biodiversityâ€“ecosystem functioning experiments. Functional Ecology, 2021, 35, 2550.	3.6	2
17	A roadmap towards predicting species interaction networks (across space and time). Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20210063.	4.0	33
18	Forecasting parasite sharing under climate change. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200360.	4.0	19

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19	Sampling and asymptotic network properties of spatial multiâ€trophic networks. Oikos, 2021, 130, 2250-2259.	2.7	5
20	Priority effects will impede range shifts of temperate tree species into the boreal forest. Journal of Ecology, 2020, 108, 1155-1173.	4.0	21
21	Niche Breadth: Causes and Consequences for Ecology, Evolution, and Conservation. Quarterly Review of Biology, 2020, 95, 179-214.	0.1	114
22	Slow demography and limited dispersal constrain the expansion of northâ€eastern temperate forests under climate change. Journal of Biogeography, 2020, 47, 2645-2656.	3.0	5
23	Moderate disturbances accelerate forest transition dynamics under climate change in the temperateâ€“boreal ecotone of eastern North America. Global Change Biology, 2020, 26, 4418-4435.	9.5	44
24	Coâ€occurrence is not evidence of ecological interactions. Ecology Letters, 2020, 23, 1050-1063.	6.4	427
25	Scalingâ€up biodiversityâ€ecosystem functioning research. Ecology Letters, 2020, 23, 757-776.	6.4	270
26	Toward a general theory of metacommunity ecology. , 2020, , 195-220.		3
27	Analysing ecological networks of species interactions. Biological Reviews, 2019, 94, 16-36.	10.4	347
28	Spatial analyses of multiâ€trophic terrestrial vertebrate assemblages in Europe. Global Ecology and Biogeography, 2019, 28, 1636-1648.	5.8	27
29	The marine fish food web is globally connected. Nature Ecology and Evolution, 2019, 3, 1153-1161.	7.8	76
30	Traits of litterâ€dwelling forest arthropod predators and detritivores covary spatially with traits of their resources. Ecology, 2019, 100, e02815.	3.2	27
31	Geographic scale and disturbance influence intraspecific trait variability in leaves and roots of North American understorey plants. Functional Ecology, 2019, 33, 1771-1784.	3.6	34
32	A novel set of traits to describe Collembola mouthparts: taking a bite out of the broad chewing mandible classification. Soil Biology and Biochemistry, 2019, 138, 107608.	8.8	19
33	Ecogeographical rules and the macroecology of food webs. Global Ecology and Biogeography, 2019, 28, 1204-1218.	5.8	34
34	Ecological Data Should Not Be So Hard to Find and Reuse. Trends in Ecology and Evolution, 2019, 34, 494-496.	8.7	52
35	A comprehensive evaluation of predictive performance of 33 species distribution models at species and community levels. Ecological Monographs, 2019, 89, e01370.	5.4	290
36	Seeing is believing? Comparing plantâ€“herbivore networks constructed by field coâ€occurrence and DNA barcoding methods for gaining insights into network structures. Ecology and Evolution, 2019, 9, 1764-1776.	1.9	18

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37	A quantitative framework for investigating the reliability of empirical network construction. Methods in Ecology and Evolution, 2019, 10, 902-911.	5.2	22
38	Assessing changes in arthropod predatorâ€“prey interactions through <scp>DNA</scp>â€based gut content analysisâ€variable environment, stable diet. Molecular Ecology, 2019, 28, 266-280.	3.9	54
39	Intraguild predation enhances biodiversity and functioning in complex food webs. Ecology, 2019, 100, e02616.	3.2	26
40	Towards a multiâ€trophic extension of metacommunity ecology. Ecology Letters, 2019, 22, 19-33.	6.4	79
41	Interactions among trees: A key element in the stabilising effect of species diversity on forest growth. Functional Ecology, 2019, 33, 360-367.	3.6	36
42	Complex Ecological Networks. , 2019, , 536-545.		3
43	Bringing Elton and Grinnell together: a quantitative framework to represent the biogeography of ecological interaction networks. Ecography, 2019, 42, 401-415.	4.5	85
44	Revealing biases in the sampling of ecological interaction networks. PeerJ, 2019, 7, e7566.	2.0	15
45	Species traits as drivers of food web structure. Oikos, 2018, 127, 316-326.	2.7	68
46	On the development of a predictive functional trait approach for studying terrestrial arthropods. Journal of Animal Ecology, 2018, 87, 1209-1220.	2.8	77
47	The spatial scaling of species interaction networks. Nature Ecology and Evolution, 2018, 2, 782-790.	7.8	77
48	Can hyperparasitoids cause largeâ€scale outbreaks of insect herbivores?. Oikos, 2018, 127, 1344-1354.	2.7	6
49	Synthesis and future research directions linking tree diversity to growth, survival, and damage in a global network of tree diversity experiments. Environmental and Experimental Botany, 2018, 152, 68-89.	4.2	113
50	More than Moran: coupling statistical and simulation models to understand how defoliation spread and weather variation drive insect outbreak dynamics. Canadian Journal of Forest Research, 2018, 48, 255-264.	1.7	3
51	Trait matching and phylogeny as predictors of predatorâ€“prey interactions involving ground beetles. Functional Ecology, 2018, 32, 192-202.	3.6	62
52	Comparing species interaction networks along environmental gradients. Biological Reviews, 2018, 93, 785-800.	10.4	203
53	Local adaptation of trees at the range margins impacts range shifts in the face of climate change. Global Ecology and Biogeography, 2018, 27, 1507-1519.	5.8	29
54	Linking DNA Metabarcoding and Text Mining to Create Network-Based Biomonitoring Tools: A Case Study on Boreal Wetland Macroinvertebrate Communities. Advances in Ecological Research, 2018, 59, 33-74.	2.7	25

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55	Springtail community structure is influenced by functional traits but not biogeographic origin of leaf litter in soils of novel forest ecosystems. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180647.	2.6	10
56	Perceptions of climate change across the Canadian forest sector: The key factors of institutional and geographical environment. PLoS ONE, 2018, 13, e0197689.	2.5	21
57	The transient response of ecosystems to climate change is amplified by trophic interactions. Oikos, 2018, 127, 1822-1833.	2.7	11
58	Identifying a common backbone of interactions underlying food webs from different ecosystems. Nature Communications, 2018, 9, 2603.	12.8	34
59	An integrative framework of coexistence mechanisms in competitive metacommunities. Ecography, 2017, 40, 630-641.	4.5	42
60	Epidemiological landscape models reproduce cyclic insect outbreaks. Ecological Complexity, 2017, 31, 78-87.	2.9	9
61	Integrating Biogeography with Contemporary Niche Theory. Trends in Ecology and Evolution, 2017, 32, 488-499.	8.7	102
62	Hosts, parasites and their interactions respond to different climatic variables. Global Ecology and Biogeography, 2017, 26, 942-951.	5.8	62
63	Foodâ€web structure of willowâ€galling sawflies and their natural enemies across Europe. Ecology, 2017, 98, 1730-1730.	3.2	16
64	Extinction debt and colonization credit delay range shifts of eastern North American trees. Nature Ecology and Evolution, 2017, 1, .	7.8	79
65	Intraspecific variability in growth response to environmental fluctuations modulates the stabilizing effect of species diversity on forest growth. Journal of Ecology, 2017, 105, 1010-1020.	4.0	35
66	Simulations of biomass dynamics in community food webs. Methods in Ecology and Evolution, 2017, 8, 881-886.	5.2	19
67	How lifeâ€history traits affect ecosystem properties: effects of dispersal in metaâ€ecosystems. Oikos, 2017, 126, 532-546.	2.7	54
68	Extensions of Island Biogeography Theory predict the scaling of functional trait composition with habitat area and isolation. Ecology Letters, 2017, 20, 135-146.	6.4	58
69	Ecological interactions and the Netflix problem. PeerJ, 2017, 5, e3644.	2.0	39
70	Temperature and trophic structure are driving microbial productivity along a biogeographical gradient. Ecography, 2016, 39, 981-989.	4.5	8
71	Ectomycorrhizal fungal diversity and saprotrophic fungal diversity are linked to different tree community attributes in a fieldâ€based tree experiment. Molecular Ecology, 2016, 25, 4032-4046.	3.9	95
72	The structure of probabilistic networks. Methods in Ecology and Evolution, 2016, 7, 303-312.	5.2	49

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73	Functional identity is the main driver of diversity effects in young tree communities. Ecology Letters, 2016, 19, 638-647.	6.4	182
74	On the integration of biotic interaction and environmental constraints at the biogeographical scale. Ecography, 2016, 39, 921-931.	4.5	33
75	Benchmarking novel approaches for modelling speciesÂrange dynamics. Global Change Biology, 2016, 22, 2651-2664.	9.5	180
76	Size evolution in microorganisms masks trade-offs predicted by the growth rate hypothesis. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20162272.	2.6	10
77	Stability and complexity in model meta-ecosystems. Nature Communications, 2016, 7, 12457.	12.8	149
78	Trait selection during food web assembly: the roles of interactions and temperature. Theoretical Ecology, 2016, 9, 417-429.	1.0	10
79	The meaning of functional trait composition of food webs for ecosystem functioning. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150268.	4.0	119
80	Assessing tree germination resilience to global warming: a manipulative experiment using sugar maple (Acer saccharum). Seed Science Research, 2016, 26, 153-164.	1.7	28
81	mangal â€“ making ecological network analysis simple. Ecography, 2016, 39, 384-390.	4.5	53
82	No complexityâ€“stability relationship in empirical ecosystems. Nature Communications, 2016, 7, 12573.	12.8	121
83	A common framework for identifying linkage rules across different types of interactions. Functional Ecology, 2016, 30, 1894-1903.	3.6	161
84	Forecasting fineâ€scale changes in the foodâ€web structure of coastal marine communities under climate change. Ecography, 2016, 39, 1227-1237.	4.5	30
85	Crossâ€scale integration of knowledge for predicting species ranges: a metamodelling framework. Global Ecology and Biogeography, 2016, 25, 238-249.	5.8	88
86	Synthetic datasets and community tools for the rapid testing of ecological hypotheses. Ecography, 2016, 39, 402-408.	4.5	32
87	A theory for species co-occurrence in interaction networks. Theoretical Ecology, 2016, 9, 39-48.	1.0	83
88	Islands as model systems in ecology and evolution: prospects fifty years after MacArthurâ€Wilson. Ecology Letters, 2015, 18, 200-217.	6.4	356
89	Inferring biotic interactions from proxies. Trends in Ecology and Evolution, 2015, 30, 347-356.	8.7	267
90	Mammalian phylogenetic diversityâ€“area relationships at a continental scale. Ecology, 2015, 96, 2814-2822.	3.2	24

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91	Beyond species: why ecological interaction networks vary through space and time. Oikos, 2015, 124, 243-251.	2.7	347
92	The Paradox of Enrichment in Metaecosystems. American Naturalist, 2014, 184, 752-763.	2.1	65
93	Advancing biodiversityâ€“ecosystem functioning science using high-density tree-based experiments over functional diversity gradients. Oecologia, 2014, 174, 609-621.	2.0	86
94	From projected species distribution to foodâ€web structure under climate change. Global Change Biology, 2014, 20, 730-741.	9.5	122
95	Multifaceted diversityâ€“area relationships reveal global hotspots of mammalian species, trait and lineage diversity. Global Ecology and Biogeography, 2014, 23, 836-847.	5.8	110
96	The influence of interspecific interactions on species range expansion rates. Ecography, 2014, 37, 1198-1209.	4.5	196
97	Does probability of occurrence relate to population dynamics?. Ecography, 2014, 37, 1155-1166.	4.5	127
98	Body size as a predictor of species loss effect on ecosystem functioning. Scientific Reports, 2014, 4, 4616.	3.3	47
99	When is an ecological network complex? Connectance drives degree distribution and emerging network properties. PeerJ, 2014, 2, e251.	2.0	95
100	Inferring food web structure from predatorâ€“prey body size relationships. Methods in Ecology and Evolution, 2013, 4, 1083-1090.	5.2	185
101	Extending the concept of keystone species to communities and ecosystems. Ecology Letters, 2013, 16, 1-8.	6.4	114
102	Identity effects dominate the impacts of multiple species extinctions on the functioning of complex food webs. Ecology, 2013, 94, 169-179.	3.2	20
103	Trophic complementarity drives the biodiversityâ€“ecosystem functioning relationship in food webs. Ecology Letters, 2013, 16, 853-861.	6.4	141
104	The Case for Open Preprints in Biology. PLoS Biology, 2013, 11, e1001563.	5.6	60
105	Highâ€Throughput Sequencing: A Roadmap Toward Community Ecology. Ecology and Evolution, 2013, 3, 1125-1139.	1.9	36
106	Spatial Structures of the Environment and of Dispersal Impact Species Distribution in Competitive Metacommunities. PLoS ONE, 2013, 8, e68927.	2.5	22
107	Moving toward a sustainable ecological science: don't let data go to waste!. Ideas in Ecology and Evolution, 2013, 6, .	0.1	20
108	Unifying sources and sinks in ecology andÂ<scp>E</scp>arth sciences. Biological Reviews, 2013, 88, 365-379.	10.4	85

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109	The dissimilarity of species interaction networks. Ecology Letters, 2012, 15, 1353-1361.	6.4	341
110	How Likely Is Speciation in Neutral Ecology?. American Naturalist, 2012, 179, 137-144.	2.1	16
111	Ecophylogenetics: advances and perspectives. Biological Reviews, 2012, 87, 769-785.	10.4	341
112	Emergence of Structural Patterns in Neutral Trophic Networks. PLoS ONE, 2012, 7, e38295.	2.5	71
113	A complex speciationâ€“richness relationship in a simple neutral model. Ecology and Evolution, 2012, 2, 1781-1790.	1.9	15
114	Accounting for dispersal and biotic interactions to disentangle the drivers of species distributions and their abundances. Ecology Letters, 2012, 15, 584-593.	6.4	352
115	Sapling age structure and growth series reveal a shift in recruitment dynamics of sugar maple and American beech over the last 40Âyears. Canadian Journal of Forest Research, 2011, 41, 873-880.	1.7	22
116	Linking community and ecosystem dynamics through spatial ecology. Ecology Letters, 2011, 14, 313-323.	6.4	213
117	Species coexistence in a variable world. Ecology Letters, 2011, 14, 828-839.	6.4	94
118	Trophic theory of island biogeography. Ecology Letters, 2011, 14, 1010-1016.	6.4	198
119	Experimental niche evolution alters the strength of the diversityâ€“productivity relationship. Nature, 2011, 469, 89-92.	27.8	200
120	Persistence Increases with Diversity and Connectance in Trophic Metacommunities. PLoS ONE, 2011, 6, e19374.	2.5	81
121	Shade tolerance, canopy gaps and mechanisms of coexistence of forest trees. Oikos, 2010, 119, 475-484.	2.7	110
122	Source and sink dynamics in metaâ€ecosystems. Ecology, 2010, 91, 2172-2184.	3.2	122
123	Patch Dynamics, Persistence, and Species Coexistence in Metaecosystems. American Naturalist, 2010, 176, 289-302.	2.1	66
124	PARTITIONING THE FACTORS OF SPATIAL VARIATION IN REGENERATION DENSITY OF SHADE-TOLERANT TREE SPECIES. Ecology, 2008, 89, 2879-2888.	3.2	28
125	Effect of a major ice storm on understory light conditions in an old-growth Acerâ€“Fagus forest: Pattern of recovery over seven years. Forest Ecology and Management, 2007, 242, 553-557.	3.2	30
126	Reconciling niche and neutrality: the continuum hypothesis. Ecology Letters, 2006, 9, 399-409.	6.4	635

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127	The difficult interpretation of species co-distribution. Peer Community in Ecology, 0, , .	0.0	0
128	Patterns of belowground overyielding and fineâ€root biomass in native and exotic angiosperms and gymnosperms. Oikos, 0, , .	2.7	1