

Gabriel Yvon-Durocher

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

4,628
citations

147566

31
h-index

243296

44
g-index

52
all docs

52
docs citations

52
times ranked

6677
citing authors

#	ARTICLE	IF	CITATIONS
1	Methane fluxes show consistent temperature dependence across microbial to ecosystem scales. <i>Nature</i> , 2014, 507, 488-491.	13.7	713
2	Reconciling the temperature dependence of respiration across timescales and ecosystem types. <i>Nature</i> , 2012, 487, 472-476.	13.7	369
3	Warming alters the metabolic balance of ecosystems. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 2117-2126.	1.8	322
4	Warming alters the size spectrum and shifts the distribution of biomass in freshwater ecosystems. <i>Global Change Biology</i> , 2011, 17, 1681-1694.	4.2	295
5	Photosynthesis-dependent H ₂ O ₂ transfer from chloroplasts to nuclei provides a high-light signalling mechanism. <i>Nature Communications</i> , 2017, 8, 49.	5.8	284
6	Rapid evolution of metabolic traits explains thermal adaptation in phytoplankton. <i>Ecology Letters</i> , 2016, 19, 133-142.	3.0	260
7	Changes in temperature alter the relationship between biodiversity and ecosystem functioning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10989-10994.	3.3	188
8	Warming alters community size structure and ecosystem functioning. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 3011-3019.	1.2	148
9	Adaptation of phytoplankton to a decade of experimental warming linked to increased photosynthesis. <i>Nature Ecology and Evolution</i> , 2017, 1, 94.	3.4	128
10	Five Years of Experimental Warming Increases the Biodiversity and Productivity of Phytoplankton. <i>PLoS Biology</i> , 2015, 13, e1002324.	2.6	111
11	Ecological Networks in a Changing Climate. <i>Advances in Ecological Research</i> , 2010, , 71-138.	1.4	110
12	River bed carbon and nitrogen cycling: State of play and some new directions. <i>Science of the Total Environment</i> , 2012, 434, 143-158.	3.9	98
13	Temperature and the biogeography of algal stoichiometry. <i>Global Ecology and Biogeography</i> , 2015, 24, 562-570.	2.7	98
14	Environmental fluctuations accelerate molecular evolution of thermal tolerance in a marine diatom. <i>Nature Communications</i> , 2018, 9, 1719.	5.8	98
15	Consistent temperature dependence of respiration across ecosystems contrasting in thermal history. <i>Global Change Biology</i> , 2012, 18, 1300-1311.	4.2	97
16	Linking community size structure and ecosystem functioning using metabolic theory. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 2998-3007.	1.8	86
17	Evolutionary temperature compensation of carbon fixation in marine phytoplankton. <i>Ecology Letters</i> , 2020, 23, 722-733.	3.0	86
18	Global change and food webs in running waters. <i>Hydrobiologia</i> , 2010, 657, 181-198.	1.0	80

#	ARTICLE	IF	CITATIONS
19	Metabolic compensation constrains the temperature dependence of gross primary production. <i>Ecology Letters</i> , 2017, 20, 1250-1260.	3.0	73
20	Across ecosystem comparisons of size structure: methods, approaches and prospects. <i>Oikos</i> , 2011, 120, 550-563.	1.2	69
21	A metabolic perspective on competition and body size reductions with warming. <i>Journal of Animal Ecology</i> , 2014, 83, 59-69.	1.3	69
22	Warming increases the proportion of primary production emitted as methane from freshwater mesocosms. <i>Global Change Biology</i> , 2011, 17, 1225-1234.	4.2	68
23	Long-term warming amplifies shifts in the carbon cycle of experimental ponds. <i>Nature Climate Change</i> , 2017, 7, 209-213.	8.1	66
24	The Temperature Dependence of the Carbon Cycle in Aquatic Ecosystems. <i>Advances in Ecological Research</i> , 2010, 43, 267-313.	1.4	63
25	Disproportionate increase in freshwater methane emissions induced by experimental warming. <i>Nature Climate Change</i> , 2020, 10, 685-690.	8.1	62
26	Warming impairs trophic transfer efficiency in a long-term field experiment. <i>Nature</i> , 2021, 592, 76-79.	13.7	62
27	Metabolic traits predict the effects of warming on phytoplankton competition. <i>Ecology Letters</i> , 2018, 21, 655-664.	3.0	55
28	Community-level respiration of prokaryotic microbes may rise with global warming. <i>Nature Communications</i> , 2019, 10, 5124.	5.8	55
29	The Temperature Dependence of Phytoplankton Stoichiometry: Investigating the Roles of Species Sorting and Local Adaptation. <i>Frontiers in Microbiology</i> , 2017, 8, 2003.	1.5	47
30	Quantifying the temperature dependence of growth rate in marine phytoplankton within and across species. <i>Limnology and Oceanography</i> , 2019, 64, 2081-2091.	1.6	44
31	Temperature-driven selection on metabolic traits increases the strength of an algal-grazer interaction in naturally warmed streams. <i>Global Change Biology</i> , 2018, 24, 1793-1803.	4.2	36
32	Nutrient limitation constrains thermal tolerance in freshwater phytoplankton. <i>Limnology and Oceanography Letters</i> , 2018, 3, 436-443.	1.6	35
33	Phytoplankton thermal responses adapt in the absence of hard thermodynamic constraints. <i>Evolution; International Journal of Organic Evolution</i> , 2020, 74, 775-790.	1.1	32
34	Land use change affects macroinvertebrate community size spectrum in streams: the case of <i>Pinus radiata</i> plantations. <i>Freshwater Biology</i> , 2016, 61, 69-79.	1.2	30
35	Biodiversity-function relationships in methanogenic communities. <i>Molecular Ecology</i> , 2018, 27, 4641-4651.	2.0	30
36	Role of carbon allocation efficiency in the temperature dependence of autotroph growth rates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7361-E7368.	3.3	29

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37	Abrupt declines in marine phytoplankton production driven by warming and biodiversity loss in a microcosm experiment. <i>Ecology Letters</i> , 2020, 23, 457-466.	3.0	28
38	Linking phytoplankton community metabolism to the individual size distribution. <i>Ecology Letters</i> , 2018, 21, 1152-1161.	3.0	21
39	Energetic equivalence underpins the size structure of tree and phytoplankton communities. <i>Nature Communications</i> , 2019, 10, 255.	5.8	19
40	Leaf trait variation is similar among genotypes of <i>Eucalyptus camaldulensis</i> from differing climates and arises in plastic responses to the seasons rather than water availability. <i>New Phytologist</i> , 2020, 227, 780-793.	3.5	19
41	Macroecological patterns and niche structure in a new marine food web. <i>Open Life Sciences</i> , 2008, 3, 91-103.	0.6	14
42	Modelling ecosystem adaptation and dangerous rates of global warming. <i>Emerging Topics in Life Sciences</i> , 2019, 3, 221-231.	1.1	10
43	Ecological Networks: Information Theory Meets Darwin's Entangled Bank. <i>Current Biology</i> , 2007, 17, R128-R130.	1.8	7