

Karl Cottenie

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

4,787
citations

218381

26
h-index

138251

58
g-index

62
all docs

62
docs citations

62
times ranked

5717
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrating environmental and spatial processes in ecological community dynamics. <i>Ecology Letters</i> , 2005, 8, 1175-1182.	3.0	1,092
2	Contrasts between habitat generalists and specialists: an empirical extension to the basic metacommunity framework. <i>Ecology</i> , 2009, 90, 2253-2262.	1.5	445
3	The power of species sorting: Local factors drive bacterial community composition over a wide range of spatial scales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 20404-20409.	3.3	395
4	ZOOPLANKTON METACOMMUNITY STRUCTURE: REGIONAL VS. LOCAL PROCESSES IN HIGHLY INTERCONNECTED PONDS. <i>Ecology</i> , 2003, 84, 991-1000.	1.5	330
5	Spatial autocorrelation and dispersal limitation in freshwater organisms. <i>Oecologia</i> , 2009, 159, 151-159.	0.9	269
6	Plant and fungal identity determines pathogen protection of plant roots by arbuscular mycorrhizas. <i>Journal of Ecology</i> , 2009, 97, 1274-1280.	1.9	256
7	The terminology of metacommunity ecology. <i>Trends in Ecology and Evolution</i> , 2012, 27, 253-254.	4.2	180
8	A comparative analysis reveals weak relationships between ecological factors and beta diversity of stream insect metacommunities at two spatial levels. <i>Ecology and Evolution</i> , 2015, 5, 1235-1248.	0.8	167
9	METACOMMUNITY STRUCTURE: SYNERGY OF BIOTIC INTERACTIONS AS SELECTIVE AGENTS AND DISPERSAL AS FUEL. <i>Ecology</i> , 2004, 85, 114-119.	1.5	157
10	Common and rare species respond to similar niche processes in macroinvertebrate metacommunities. <i>Ecography</i> , 2012, 35, 183-192.	2.1	154
11	Environmental and spatial controls of biotic assemblages in a discrete semi-terrestrial habitat: comparison of organisms with different dispersal abilities sampled in the same plots. <i>Journal of Biogeography</i> , 2011, 38, 1683-1693.	1.4	123
12	Hierarchical zooplankton metacommunities: distinguishing between high and limiting dispersal mechanisms. <i>Hydrobiologia</i> , 2009, 619, 133-143.	1.0	119
13	Strong Top-Down Control in Southern California Kelp Forest Ecosystems. <i>Science</i> , 2006, 312, 1230-1232.	6.0	97
14	Connectivity and cladoceran species richness in a metacommunity of shallow lakes. <i>Freshwater Biology</i> , 2003, 48, 823-832.	1.2	81
15	Strong Spatial Influence on Colonization Rates in a Pioneer Zooplankton Metacommunity. <i>PLoS ONE</i> , 2012, 7, e40205.	1.1	76
16	Dispersal limitation of unionid mussels and implications for their conservation. <i>Freshwater Biology</i> , 2011, 56, 1509-1518.	1.2	60
17	Spatial Variability in Plant Predation Determines the Strength of Stochastic Community Assembly. <i>American Naturalist</i> , 2013, 182, 169-179.	1.0	51
18	Different roles of environmental variables and spatial factors in structuring stream benthic diatom and macroinvertebrate in Yangtze River Delta, China. <i>Ecological Indicators</i> , 2016, 61, 602-611.	2.6	50

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19	Stochastic and deterministic processes drive wetland community assembly across a gradient of environmental filtering. <i>Oikos</i> , 2019, 128, 1158-1169.	1.2	49
20	Distribution of unionid freshwater mussels depends on the distribution of host fishes on a regional scale. <i>Diversity and Distributions</i> , 2013, 19, 446-454.	1.9	46
21	Variation in plant community composition and vegetation carbon pools a decade following a severe fire season in interior Alaska. <i>Journal of Vegetation Science</i> , 2016, 27, 1187-1197.	1.1	43
22	The relative importance of dispersal and local processes in structuring phytoplankton communities in a set of highly interconnected ponds. <i>Freshwater Biology</i> , 2008, 53, 2170-2183.	1.2	40
23	Aquatic connectivity and fish metacommunities in wetlands of the lower Great Lakes. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2009, 66, 933-948.	0.7	39
24	Assessment of stream macroinvertebrate communities with eDNA is not congruent with tissue-based metabarcoding. <i>Molecular Ecology</i> , 2021, 30, 3239-3251.	2.0	38
25	Applying ecological models to communities of genetic elements: the case of neutral theory. <i>Molecular Ecology</i> , 2015, 24, 3232-3242.	2.0	34
26	Metacommunity versus Biogeography: A Case Study of Two Groups of Neotropical Vegetation-Dwelling Arthropods. <i>PLoS ONE</i> , 2014, 9, e115137.	1.1	29
27	Changes in migratory fish communities and their health, hydrology, and water chemistry in rivers of the Athabasca oil sands region: a review of historical and current data. <i>Environmental Reviews</i> , 2015, 23, 133-150.	2.1	28
28	Exploring differences in macroinvertebrate communities from emergent, floating-leaved and submersed vegetation in shallow ponds. <i>Fundamental and Applied Limnology</i> , 2008, 173, 47-57.	0.4	26
29	Response of Migratory Sea Lampreys to Artificial Lighting in Portable Traps. <i>North American Journal of Fisheries Management</i> , 2012, 32, 563-572.	0.5	24
30	Distinguishing ecological from evolutionary approaches to transposable elements. <i>Biological Reviews</i> , 2013, 88, 573-584.	4.7	22
31	Taxonomic resolution based on DNA barcoding affects environmental signal in metacommunity structure. <i>Freshwater Science</i> , 2016, 35, 701-711.	0.9	21
32	Into the wild: microbiome transplant studies need broader ecological reality. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20192834.	1.2	21
33	Dispersal abilities of riverine freshwater mussels influence metacommunity structure. <i>Freshwater Biology</i> , 2015, 60, 911-921.	1.2	19
34	Yes! There are Resilient Generalizations (or "Laws") in Ecology. <i>Quarterly Review of Biology</i> , 2016, 91, 119-131.	0.0	17
35	Population synchrony decreases with richness and increases with environmental fluctuations in an experimental metacommunity. <i>Oecologia</i> , 2013, 171, 237-247.	0.9	15
36	Transposable element persistence via potential genome-level ecosystem engineering. <i>BMC Genomics</i> , 2020, 21, 367.	1.2	14

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37	Ethanol eDNA Reveals Unique Community Composition of Aquatic Macroinvertebrates Compared to Bulk Tissue Metabarcoding in a Biomonitoring Sampling Scheme. <i>Diversity</i> , 2021, 13, 34.	0.7	14
38	The role of local and regional processes on population synchrony along the gradients of habitat specialization. <i>Ecosphere</i> , 2016, 7, e01217.	1.0	13
39	A critical analysis of the ubiquity of linear local–regional richness relationships. <i>Oikos</i> , 2013, 122, 961-966.	1.2	12
40	Restored native prairie supports abundant and species-rich native bee communities on conventional farms. <i>Restoration Ecology</i> , 2019, 27, 1291-1299.	1.4	12
41	The importance of taxonomic resolution for additive beta diversity as revealed through DNA barcoding. <i>Genome</i> , 2016, 59, 1130-1140.	0.9	11
42	The effects of roads on habitat selection and movement patterns of the American badger subspecies <i>Taxidea taxus jacksoni</i> in Ontario, Canada. <i>Canadian Journal of Zoology</i> , 2017, 95, 821-828.	0.4	11
43	At each site its diversity: DNA barcoding reveals remarkable earthworm diversity in neotropical rainforests of French Guiana. <i>Applied Soil Ecology</i> , 2021, 164, 103932.	2.1	11
44	Little evidence for climate effects on local-scale structure and dynamics of California kelp forest communities. <i>Global Change Biology</i> , 2007, 13, 236-251.	4.2	9
45	Floods homogenize aquatic communities across time but not across space in a Neotropical floodplain. <i>Aquatic Sciences</i> , 2021, 83, 1.	0.6	9
46	A novel application of ecological analyses to assess transposable element distributions in the genome of the domestic cow, <i>Bos taurus</i> . <i>Genome</i> , 2013, 56, 521-533.	0.9	8
47	Variation in space and time: a long-term examination of density-dependent dispersal in a woodland rodent. <i>Oecologia</i> , 2020, 193, 903-912.	0.9	8
48	Priority effects of stream eutrophication and assembly history on beta diversity across aquatic consumers, decomposers and producers. <i>Science of the Total Environment</i> , 2021, 797, 149106.	3.9	8
49	Fish assemblages in agricultural drains are resilient to habitat change caused by drain maintenance. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2017, 74, 1538-1548.	0.7	6
50	Perception of Biology Instructors on Using Student Evaluations to Inform Their Teaching. <i>International Journal of Higher Education</i> , 2019, 8, 133.	0.2	5
51	Maintenance of agricultural drains alters physical habitat, but not macroinvertebrate assemblages exploited by fishes. <i>Journal of Environmental Management</i> , 2017, 203, 29-39.	3.8	4
52	Reconciling seascape genetics and fisheries science in three codistributed flatfishes. <i>Evolutionary Applications</i> , 2021, 14, 536-552.	1.5	4
53	Distinctive macroinvertebrate communities in a subtropical river network. <i>Journal of Freshwater Ecology</i> , 2019, 34, 135-150.	0.5	3
54	Quantifying the Scientific Cost of Ambiguous Terminology in Community Ecology. <i>Philosophical Topics</i> , 2019, 47, 203-218.	0.2	3

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55	Detecting signatures of competition from observational data: a combined approach using DNA barcoding, diversity partitioning and checkerboards at small spatial scales. <i>Freshwater Biology</i> , 2016, 61, 646-657.	1.2	2
56	Examining the effects of heterospecific abundance on dispersal in forest small mammals. <i>Journal of Mammalogy</i> , 2021, 102, 1484-1496.	0.6	2
57	Spatio-temporal analyses show conflicting evidence of the role of an invasive minnow in the decline of an endangered desert fish endemic to the south-western U.S.A.. <i>Freshwater Biology</i> , 2021, 66, 2158.	1.2	1
58	Water availability and quality determine temporal synchrony and beta diversity of microcrustaceans in temporary pools. <i>Freshwater Science</i> , 2022, 41, 226-235.	0.9	1
59	Long-term TE persistence even without beneficial insertion. <i>BMC Genomics</i> , 2021, 22, 260.	1.2	0