Olivier Dangles

List of Publications by Year
in descending order

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112	4,687	94433	114465
papers	citations	37 h-index	63 g-index

114	114	114	5607
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Role of Biodiversity in the Functioning of Freshwater and Marine Benthic Ecosystems. BioScience, 2004, 54, 767.	4.9	296
2	Biodiversity under threat in glacier-fed riverÂsystems. Nature Climate Change, 2012, 2, 361-364.	18.8	265
3	Impacts of stream acidification on litter breakdown: implications for assessing ecosystem functioning. Journal of Applied Ecology, 2004, 41, 365-378.	4.0	222
4	Obstacles to integrated pest management adoption in developing countries. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3889-3894.	7.1	199
5	Species richness-decomposition relationships depend on species dominance. Ecology Letters, 2004, 7, 395-402.	6.4	197
6	A comparative analysis reveals weak relationships between ecological factors and beta diversity of stream insect metacommunities at two spatial levels. Ecology and Evolution, 2015, 5, 1235-1248.	1.9	167
7	A global synthesis of biodiversity responses to glacier retreat. Nature Ecology and Evolution, 2019, 3, 1675-1685.	7.8	154
8	Simulating species loss following perturbation: assessing the effects on process rates. Proceedings of the Royal Society B: Biological Sciences, 2002, 269, 1047-1052.	2.6	117
9	Social Learning in Noncolonial Insects?. Current Biology, 2005, 15, 1931-1935.	3.9	111
10	Facilitation among plants in alpine environments in the face of climate change. Frontiers in Plant Science, 2014, 5, 387.	3.6	111
11	Naturally acid freshwater ecosystems are diverse and functional: evidence from boreal streams. Oikos, 2004, 104, 149-155.	2.7	91
12	Variability in Sensory Ecology: Expanding the Bridge Between Physiology and Evolutionary Biology. Quarterly Review of Biology, 2009, 84, 51-74.	0.1	80
13	Ecosystem sentinels for climate change? Evidence of wetland cover changes over the last 30 years in the tropical Andes. PLoS ONE, 2017, 12, e0175814.	2.5	80
14	Physical Ecology of Fluid Flow Sensing in Arthropods. Annual Review of Entomology, 2010, 55, 505-520.	11.8	76
15	Functional plasticity of benthic macroinvertebrates: implications for trophic dynamics in acid streams. Canadian Journal of Fisheries and Aquatic Sciences, 2002, 59, 1563-1573.	1.4	73
16	Environmental harshness and global richness patterns in glacierâ€fed streams. Global Ecology and Biogeography, 2012, 21, 647-656.	5.8	72
17	Unexpected mechanisms sustain the stress gradient hypothesis in a tropical alpine environment. Journal of Vegetation Science, 2012, 23, 62-72.	2.2	70
18	Biodiversity Patterns and Continental Insularity in the Tropical High Andes. Arctic, Antarctic, and Alpine Research, 2014, 46, 811-828.	1.1	66

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19	Invertebrate Metacommunity Structure and Dynamics in an Andean Glacial Stream Network Facing Climate Change. PLoS ONE, 2015, 10, e0136793.	2.5	66
20	Hair canopy of cricket sensory system tuned to predator signals. Journal of Theoretical Biology, 2006, 241, 459-466.	1.7	64
21	Plantâ€“plant interactions in tropical alpine environments. Perspectives in Plant Ecology, Evolution and Systematics, 2012, 14, 363-372.	2.7	63
22	Plant traits predict interâ€•and intraspecific variation in susceptibility to herbivory in a hyperdiverse Neotropical rain forest tree community. Journal of Ecology, 2014, 102, 939-952.	4.0	63
23	A toolbox for studying thermal heterogeneity across spatial scales: from unmanned aerial vehicle imagery toÂlandscape metrics. Methods in Ecology and Evolution, 2016, 7, 437-446.	5.2	63
24	Time lag between glacial retreat and upward migration alters tropical alpine communities. Perspectives in Plant Ecology, Evolution and Systematics, 2018, 30, 89-102.	2.7	62
25	Reducing adverse impacts of Amazon hydropower expansion. Science, 2022, 375, 753-760.	12.6	60
26	Ecological responses to experimental glacier-runoff reduction in alpine rivers. Nature Communications, 2016, 7, 12025.	12.8	56
27	Longitudinal zonation of macroinvertebrates in an Ecuadorian glacierâ€fed stream: do tropical glacial systems fit the temperate model?. Freshwater Biology, 2010, 55, 1234-1248.	2.4	50
28	Humboldtâ€™sTableau Physiquerevisited. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12889-12894.	7.1	50
29	Runoff and the longitudinal distribution of macroinvertebrates in a glacierâ€fed stream: implications for the effects of global warming. Freshwater Biology, 2014, 59, 2038-2050.	2.4	48
30	Predicting richness effects on ecosystem function in natural communities: insights from high-elevation streams. Ecology, 2011, 92, 733-743.	3.2	47
31	Variation in morphology and performance of predator-sensing system in wild cricket populations. Journal of Experimental Biology, 2005, 208, 461-468.	1.7	46
32	Ecological factors related to the widespread distribution of sylvatic Rhodnius ecuadoriensis populations in southern Ecuador. Parasites and Vectors, 2012, 5, 17.	2.5	46
33	An agent-based modeling framework for integrated pest management dissemination programs. Environmental Modelling and Software, 2013, 45, 141-149.	4.5	46
34	The Aerodynamic Signature of Running Spiders. PLoS ONE, 2008, 3, e2116.	2.5	43
35	Modeling invasive species spread in complex landscapes: the case of potato moth in Ecuador. Landscape Ecology, 2011, 26, 1447-1461.	4.2	43
36	Sizeâ€dependent species removal impairs ecosystem functioning in a largeâ€scale tropical field experiment. Ecology, 2012, 93, 2615-2625.	3.2	41

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37	Coupled Information Diffusionâ€“Pest Dynamics Models Predict Delayed Benefits of Farmer Cooperation in Pest Management Programs. PLoS Computational Biology, 2011, 7, e1002222.	3.2	40
38	Modelling temperatureâ€dependent development rate and phenology in arthropods: The <scp>devRate</scp> package for <scp>r</scp>. Methods in Ecology and Evolution, 2018, 9, 1144-1150.	5.2	40
39	Microdistribution of Sylvatic Triatomine Populations in Central-Coastal Ecuador. Journal of Medical Entomology, 2010, 47, 80-88.	1.8	39
40	Textbook cricket goes to the field: the ecological scene of the neuroethological play. Journal of Experimental Biology, 2006, 209, 393-398.	1.7	38
41	Microclimate Data Improve Predictions of Insect Abundance Models Based on Calibrated Spatiotemporal Temperatures. Frontiers in Physiology, 2016, 7, 139.	2.8	36
42	Spatial variability in macroinvertebrate assemblages along and among neighbouring equatorial glacier-fed streams. Freshwater Biology, 2011, 56, 2226-2244.	2.4	35
43	Linking Shredders and Leaf Litter Processing: Insights from an Acidic Stream Study. International Review of Hydrobiology, 2001, 86, 395-406.	0.9	34
44	Crop damage increases with pest species diversity: evidence from potato tuber moths in the tropical Andes. Journal of Applied Ecology, 2009, 46, 1115-1121.	4.0	33
45	Experimental support of the stressâ€gradient hypothesis in herbivoreâ€“herbivore interactions. New Phytologist, 2013, 197, 405-408.	7.3	33
46	Sim<scp>A</scp>dapt: an individualâ€based genetic model for simulating landscape management impacts on populations. Methods in Ecology and Evolution, 2013, 4, 595-600.	5.2	32
47	Fine nurse variations explain discrepancies in the stressâ€interaction relationship in alpine regions. Oikos, 2017, 126, 1173-1183.	2.7	32
48	Ecology of High Altitude Waters. , 2017, , .		32
49	Role of transported particulate organic matter in the macroinvertebrate colonization of litter bags in streams. Freshwater Biology, 2001, 46, 575-586.	2.4	30
50	Strong Discrepancies between Local Temperature Mapping and Interpolated Climatic Grids in Tropical Mountainous Agricultural Landscapes. PLoS ONE, 2014, 9, e105541.	2.5	30
51	Short term response of dung beetle communities to disturbance by road construction in the Ecuadorian Amazon. Annales De La Societe Entomologique De France, 2009, 45, 455-469.	0.9	29
52	Development of a viral biopesticide for the control of the Guatemala potato tuber moth Tecia solanivora. Journal of Invertebrate Pathology, 2013, 112, 184-191.	3.2	28
53	Dynamics of Sylvatic Chagas Disease Vectors in Coastal Ecuador Is Driven by Changes in Land Cover. PLoS Neglected Tropical Diseases, 2014, 8, e2960.	3.0	27
54	Relationships between stream macroinvertebrate communities and new floodâ€based indices of glacial influence. Freshwater Biology, 2014, 59, 1916-1925.	2.4	27

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55	Altitudinal distribution limits of aquatic macroinvertebrates: an experimental test in a tropical alpine stream. Ecological Entomology, 2015, 40, 629-638.	2.2	27
56	Temporal variability in discharge and benthic macroinvertebrate assemblages in a tropical glacier-fed stream. Freshwater Science, 2014, 33, 32-45.	1.8	25
57	Plant herbivory responses through changes in leaf quality have no effect on subsequent leafâ€litter decomposition in a neotropical rain forest tree community. New Phytologist, 2015, 207, 817-829.	7.3	25
58	Market access and community size influence pastoral management of native and exotic livestock species: A case study in communities of the Cordillera Real in Bolivia's high Andean wetlands. PLoS ONE, 2017, 12, e0189409.	2.5	25
59	Multiâ€taxa colonisation along the foreland of a vanishing equatorial glacier. Ecography, 2021, 44, 1010-1021.	4.5	24
60	Microdistribution of Sylvatic Triatomine Populations in Central-Coastal Ecuador. Journal of Medical Entomology, 2010, 47, 80-88.	1.8	23
61	Agent-Based Modeling of Human-Induced Spread of Invasive Species in Agricultural Landscapes: Insights from the Potato Moth in Ecuador. Jasss, 2011, 14, .	1.8	22
62	Title is missing!. Biological Invasions, 2002, 4, 441-446.	2.4	21
63	Diversity and distribution models of horse fl ies (Diptera: Tabanidae) from Ecuador. Annales De La Societe Entomologique De France, 2009, 45, 511-528.	0.9	21
64	Changes in the distribution of multispecies pest assemblages affect levels of crop damage in warming tropical Andes. Global Change Biology, 2015, 21, 82-96.	9.5	21
65	Relative contributions of organ shape and receptor arrangement to the design of cricketâ€™s cercal system. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2008, 194, 653-663.	1.6	20
66	Direct and indirect effects of glaciers on aquatic biodiversity in high Andean peatlands. Global Change Biology, 2016, 22, 3196-3205.	9.5	20
67	Research on Biodiversity and Climate Change at a Distance: Collaboration Networks between Europe and Latin America and the Caribbean. PLoS ONE, 2016, 11, e0157441.	2.5	20
68	Intraspecific diversity as a reservoir for heat-stress tolerance in sweet potato. Nature Climate Change, 2021, 11, 64-69.	18.8	19
69	Facilitation costs and benefits function simultaneously on stress gradients for animals. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180983.	2.6	18
70	Diversity and distribution of type specimens deposited in the Invertebrate section of the Museum of Zoology QCAZ, Quito, Ecuador. Annales De La Societe Entomologique De France, 2009, 45, 437-454.	0.9	17
71	The History of Entomology in Ecuador. Annales De La Societe Entomologique De France, 2009, 45, 410-423.	0.9	16
72	Living at the Edge: Increasing Stress for Plants 2â€“13 Years After the Retreat of a Tropical Glacier. Frontiers in Ecology and Evolution, 2021, 9, .	2.2	16

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73	Temperatureâ€dependent shifts in herbivore performance and interactions drive nonlinear changes in crop damages. Global Change Biology, 2013, 19, 1056-1063.	9.5	15
74	Differences in Morphometry and Activity among Tabanid Fly Assemblages in an Andean Tropical Montane Cloud Forest: Indication of Altitudinal Migration?. Biotropica, 2013, 45, 63-72.	1.6	14
75	Glacial flood pulse effects on benthic fauna in equatorial high-Andean streams. Hydrological Processes, 2013, 28, n/a-n/a.	2.6	14
76	Functional consequences of realistic extinction scenarios in <scp>A</scp>mazonian soil food webs. Ecosphere, 2017, 8, e01692.	2.2	14
77	The effects of climate change on a megaâ€diverse country: predicted shifts in mammalian species richness and turnover in continental Ecuador. Biotropica, 2017, 49, 821-831.	1.6	14
78	Streamlined ecoâ€engineering approach helps define environmental flows for tropical Andean headwaters. Freshwater Biology, 2019, 64, 1315-1325.	2.4	14
79	Variations in time and space of an Andean wild population of T. infestans at a microgeographic scale. Parasites and Vectors, 2014, 7, 164.	2.5	13
80	The Retreat of Mountain Glaciers since the Little Ice Age: A Spatially Explicit Database. Data, 2021, 6, 107.	2.3	13
81	Use of blood parameters in fish to assess acidic stress and chloride pollution in French running waters. Chemosphere, 2002, 47, 467-473.	8.2	12
82	Entomology in Ecuador: Recent developments and future challenges. Annales De La Societe Entomologique De France, 2009, 45, 424-436.	0.9	11
83	Do canopy herbivores mechanically facilitate subsequent litter decomposition in soil? A pilot study from a Neotropical cloud forest. Ecological Research, 2012, 27, 975-981.	1.5	11
84	Modeling temperature-dependent survival with small datasets: insights from tropical mountain agricultural pests. Bulletin of Entomological Research, 2013, 103, 336-343.	1.0	11
85	Adaptive management in crop pest control in the face of climate variability: an agent-based modeling approach. Ecology and Society, 2015, 20, .	2.3	11
86	Functional structure and diversity of invertebrate communities in a glacierised catchment of the tropical Andes. Freshwater Biology, 2020, 65, 1348-1362.	2.4	11
87	Biological Invasions in the Amazonian Tropical Rain Forest: The Case of Drosophilidae (Insecta,) Tj ETQq1 1 0.784314 rgBT /Overlock	1.6	10
88	Temporal scaling of high flow effects on benthic fauna: Insights from equatorial glacierâ€fed streams. Limnology and Oceanography, 2015, 60, 1836-1847.	3.1	10
89	The altitudinal limit ofLeptohyphesEaton, 1882 andLachlaniaHagen, 1868 (Ephemeroptera:) Tj ETQq1 1 0.784314 rgBT Insects, 2016, 37, 69-86.	0.9	10
90	Factors influencing egg parasitism in subâ€social insects: insights from the treehopper Alchisme grossa (<scp>H</scp>emiptera, <scp>A</scp>uchenorrhyncha, <scp>M</scp>embracidae). Ecological Entomology, 2014, 39, 58-65.	2.2	9

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91	An isometric virus of the potato tuber moth Tecia solanivora (Povolny) (Lepidoptera: Gelechiidae) has a tri-segmented RNA genome. Journal of Invertebrate Pathology, 2008, 99, 204-211.	3.2	8
92	A dynamic model of facilitation on environmental stress gradients. Oikos, 2019, 128, 1206-1214.	2.7	8
93	Pesticide misuse among small Andean farmers stems from pervasive misinformation by retailers. , 2022, 1, e0000017.		8
94	Evolution of the cercal sensory system in a tropical cricket clade (Orthoptera: Grylloidea:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (	1.6	7
95	Diversity patterns of aquatic macroinvertebrates in a tropical high-Andean catchment. Revista De Biologia Tropical, 2020, 68, S29-S53.	0.4	7
96	Simulating Population Genetics of Pathogen Vectors in Changing Landscapes: Guidelines and Application with Triatoma brasiliensis. PLoS Neglected Tropical Diseases, 2014, 8, e3068.	3.0	6
97	Logiques paysannes, production agricole et lutte contre les ravageurs des cultures Ã Salcedo dans les Andes Ã©quatoriennesÂ: stratÃ©gies individuelles ou collectivesÂ?. VertigO: La Revue Electronique En Sciences De L'environnement, 2016, , .	0.1	6
98	The bee and the turtle: a fable from YasunÃ-National Park. Frontiers in Ecology and the Environment, 2012, 10, 446-447.	4.0	5
99	A whole-ecosystem experiment reveals flow-induced shifts in a stream community. Communications Biology, 2022, 5, 420.	4.4	5
100	Environmental and spatial filters of zooplankton metacommunities in shallow pools in highâ€elevation peatlands in the tropical Andes. Freshwater Biology, 2018, 63, 432-442.	2.4	4
101	Reply to: Glacial ecosystems are essential to understanding biodiversity responses to glacier retreat. Nature Ecology and Evolution, 2020, 4, 688-689.	7.8	4
102	Aquatic biota responses to temperature in a high Andean geothermal stream. Freshwater Biology, 2021, 66, 1889-1900.	2.4	4
103	Glacier influence on bird assemblages in habitat islands of the high Bolivian Andes. Diversity and Distributions, 2022, 28, 242-256.	4.1	4
104	Reply to Morueta-Holme et al.: Humboldt's historical data are not messy, they just need expert examination. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21348-21349.	7.1	3
105	Functional Feeding Groups of Macrofauna and Detritus Decomposition along a Gradient of Glacial Meltwater Influence in Tropical High-Andean Streams. Water (Switzerland), 2021, 13, 3303.	2.7	3
106	Sowing the seeds for interdisciplinary plant research and development in the Tropical Andes. Plants People Planet, 2019, 1, 102-106.	3.3	2
107	Combined effects of landscape composition and pesticide use on herbivore and pollinator functions in smallholder farms. CABI Agriculture and Bioscience, 2021, 2, .	2.4	2
108	The response of culturally important plants to experimental warming and clipping in Pakistan Himalayas. PLoS ONE, 2021, 16, e0237893.	2.5	2

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109	Agent-Based Models and Integrated Pest Management Diffusion in Small Scale Farmer Communities. , 2014, , 367-383.		2
110	Preferencia de oviposiciÃ³n en tres especies de polilla de la papa (Lepidoptera: Gelechiidae).. Revista Ecuatoriana De Medicina Y Ciencias BiolÃ³gicas, 2012, 33, 82-87.	0.1	1
111	Aggregation of shredder invertebrates associated with benthic detrital pools in seven headwater forested streams. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 2002, 28, 910-913.	0.1	0
112	Entomology in Ecuador. Annales De La Societe Entomologique De France, 2009, 45, 409-409.	0.9	0