

SÃ©bastien Lavergne

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9644563/publications.pdf>

Version: 2024-02-01

92
papers

9,338
citations

53794

45
h-index

43889

91
g-index

94
all docs

94
docs citations

94
times ranked

13745
citing authors

#	ARTICLE	IF	CITATIONS
1	Increased genetic variation and evolutionary potential drive the success of an invasive grass. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 3883-3888.	7.1	799
2	How to measure and test phylogenetic signal. <i>Methods in Ecology and Evolution</i> , 2012, 3, 743-756.	5.2	759
3	Rare Species Support Vulnerable Functions in High-Diversity Ecosystems. <i>PLoS Biology</i> , 2013, 11, e1001569.	5.6	654
4	Defining and measuring ecological specialization. <i>Journal of Applied Ecology</i> , 2010, 47, 15-25.	4.0	568
5	Consequences of climate change on the tree of life in Europe. <i>Nature</i> , 2011, 470, 531-534.	27.8	460
6	Ecophylogenetics: advances and perspectives. <i>Biological Reviews</i> , 2012, 87, 769-785.	10.4	341
7	From barcodes to genomes: extending the concept of DNA barcoding. <i>Molecular Ecology</i> , 2016, 25, 1423-1428.	3.9	322
8	The biology and ecology of narrow endemic and widespread plants: a comparative study of trait variation in 20 congeneric pairs. <i>Oikos</i> , 2004, 107, 505-518.	2.7	310
9	Competitive interactions between forest trees are driven by species' trait hierarchy, not phylogenetic or functional similarity: implications for forest community assembly. <i>Ecology Letters</i> , 2012, 15, 831-840.	6.4	284
10	Hierarchical effects of environmental filters on the functional structure of plant communities: a case study in the French Alps. <i>Ecography</i> , 2013, 36, 393-402.	4.5	250
11	RELATING PLANT TRAITS AND SPECIES DISTRIBUTIONS ALONG BIOCLIMATIC GRADIENTS FOR 88 LEUCADENDRON TAXA. <i>Ecology</i> , 2004, 85, 1688-1699.	3.2	242
12	The partitioning of diversity: showing Theseus a way out of the labyrinth. <i>Journal of Vegetation Science</i> , 2010, 21, 992-1000.	2.2	242
13	Resolving Darwin's naturalization conundrum: a quest for evidence. <i>Diversity and Distributions</i> , 2010, 16, 461-475.	4.1	216
14	Functional species pool framework to test for biotic effects on community assembly. <i>Ecology</i> , 2012, 93, 2263-2273.	3.2	205
15	Reed Canary Grass (<i>Phalaris arundinacea</i>) as a Biological Model in the Study of Plant Invasions. <i>Critical Reviews in Plant Sciences</i> , 2004, 23, 415-429.	5.7	196
16	Environmental and human factors influencing rare plant local occurrence, extinction and persistence: a 115-year study in the Mediterranean region. <i>Journal of Biogeography</i> , 2005, 32, 799-811.	3.0	133
17	Niche breadth, rarity and ecological characteristics within a regional flora spanning large environmental gradients. <i>Journal of Biogeography</i> , 2012, 39, 204-214.	3.0	123
18	Do rock endemic and widespread plant species differ under the Leaf-Height-Seed plant ecology strategy scheme?. <i>Ecology Letters</i> , 2003, 6, 398-404.	6.4	118

#	ARTICLE	IF	CITATIONS
19	Phylogenomic Analysis of the Explosive Adaptive Radiation of the Espeletia Complex (Asteraceae) in the Tropical Andes. <i>Systematic Biology</i> , 2018, 67, 1041-1060.	5.6	118
20	Disentangling the drivers of metacommunity structure across spatial scales. <i>Journal of Biogeography</i> , 2013, 40, 1560-1571.	3.0	113
21	Phylogenetic niche conservatism â€” common pitfalls and ways forward. <i>Functional Ecology</i> , 2015, 29, 627-639.	3.6	104
22	Effects of competition on tree radial growth vary in importance but not in intensity along climatic gradients. <i>Journal of Ecology</i> , 2011, 99, 300-312.	4.0	100
23	Ecological differentiation of Mediterranean endemic plants. <i>Taxon</i> , 2005, 54, 967-976.	0.7	95
24	Genome size reduction can trigger rapid phenotypic evolution in invasive plants. <i>Annals of Botany</i> , 2010, 105, 109-116.	2.9	95
25	Assessing rapid evolution in a changing environment. <i>Trends in Ecology and Evolution</i> , 2010, 25, 692-698.	8.7	89
26	What it takes to invade grassland ecosystems: traits, introduction history and filtering processes. <i>Ecology Letters</i> , 2016, 19, 219-229.	6.4	86
27	Phylogenetic patterns of climatic, habitat and trophic niches in a European avian assemblage. <i>Global Ecology and Biogeography</i> , 2014, 23, 414-424.	5.8	81
28	Building megaphylogenies for macroecology: taking up the challenge. <i>Ecography</i> , 2013, 36, 13-26.	4.5	79
29	Fingerprints of environmental change on the rare mediterranean flora: a 115-year study. <i>Global Change Biology</i> , 2006, 12, 1466-1478.	9.5	75
30	1914â€”2014: A revised worldwide catalogue of cushion plants 100 years after Hauri and SchrÃ¶ter. <i>Alpine Botany</i> , 2014, 124, 59-70.	2.4	75
31	Spatial scale and intraspecific trait variability mediate assembly rules in alpine grasslands. <i>Journal of Ecology</i> , 2017, 105, 277-287.	4.0	73
32	Spatial mismatch of phylogenetic diversity across three vertebrate groups and protected areas in Europe. <i>Diversity and Distributions</i> , 2014, 20, 674-685.	4.1	67
33	From the backyard to the backcountry: how ecological and biological traits explain the escape of garden plants into Mediterranean old fields. <i>Biological Invasions</i> , 2010, 12, 761-779.	2.4	65
34	Scale decisions can reverse conclusions on community assembly processes. <i>Global Ecology and Biogeography</i> , 2014, 23, 620-632.	5.8	63
35	Improving plant functional groups for dynamic models of biodiversity: at the crossroads between functional and community ecology. <i>Global Change Biology</i> , 2012, 18, 3464-3475.	9.5	62
36	Darwin's naturalization hypothesis: scale matters in coastal plant communities. <i>Ecography</i> , 2013, 36, 560-568.	4.5	62

#	ARTICLE	IF	CITATIONS
37	The Treasure Vault Can be Opened: Large-Scale Genome Skimming Works Well Using Herbarium and Silica Gel Dried Material. <i>Plants</i> , 2020, 9, 432.	3.5	59
38	Replicated radiations of the alpine genus <i>Androsace</i> (Primulaceae) driven by range expansion and convergent key innovations. <i>Journal of Biogeography</i> , 2013, 40, 1874-1886.	3.0	57
39	Climatic and topographical correlates of plant palaeo- and neoendemism in a Mediterranean biodiversity hotspot. <i>Annals of Botany</i> , 2017, 119, 229-238.	2.9	56
40	Understanding the evolution of holoparasitic plants: the complete plastid genome of the holoparasite <i>Cytinus hypocistis</i> (Cytinaceae). <i>Annals of Botany</i> , 2016, 118, 885-896.	2.9	55
41	Influence of climate, soil, and land cover on plant species distribution in the European Alps. <i>Ecological Monographs</i> , 2021, 91, e01433.	5.4	54
42	Neutral Biogeography and the Evolution of Climatic Niches. <i>American Naturalist</i> , 2014, 183, 573-584.	2.1	52
43	Are different facets of plant diversity well protected against climate and land cover changes? A test study in the French Alps. <i>Ecography</i> , 2014, 37, 1254-1266.	4.5	52
44	Reconstructing the geographic and climatic origins of long-distance bird migrations. <i>Journal of Biogeography</i> , 2020, 47, 155-166.	3.0	49
45	In and out of Africa: how did the Strait of Gibraltar affect plant species migration and local diversification?. <i>Journal of Biogeography</i> , 2013, 40, 24-36.	3.0	47
46	Global patterns of β -diversity along the phylogenetic time-scale: The role of climate and plate tectonics. <i>Global Ecology and Biogeography</i> , 2017, 26, 1211-1221.	5.8	46
47	Evolution and biogeography of the cushion life form in angiosperms. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2016, 20, 22-31.	2.7	44
48	Contrasting the effects of environment, dispersal and biotic interactions to explain the distribution of invasive plants in alpine communities. <i>Biological Invasions</i> , 2015, 17, 1407-1423.	2.4	42
49	Limitations on reproductive success in endemic <i>Aquilegia viscosa</i> (Ranunculaceae) relative to its widespread congener <i>Aquilegia vulgaris</i> : the interplay of herbivory and pollination. <i>Oecologia</i> , 2005, 142, 212-220.	2.0	41
50	Insights on the Evolution of Plant Succulence from a Remarkable Radiation in Madagascar (Euphorbia). <i>Systematic Biology</i> , 2014, 63, 697-711.	5.6	41
51	Control Strategies for the Invasive Reed Canarygrass (<i>Phalaris arundinacea</i> L.) in North American Wetlands: the Need for an Integrated Management Plan. <i>Natural Areas Journal</i> , 2006, 26, 208-214.	0.5	40
52	Herbarium-based science in the twenty-first century. <i>Botany Letters</i> , 2018, 165, 323-327.	1.4	40
53	Unravelling the architecture of functional variability in wild populations of <i>Polygonum viviparum</i> L. <i>Functional Ecology</i> , 2013, 27, 382-391.	3.6	39
54	Genetic variation in photosynthetic characteristics among invasive and native populations of reed canarygrass (<i>Phalaris arundinacea</i>). <i>Biological Invasions</i> , 2008, 10, 1317-1325.	2.4	38

#	ARTICLE	IF	CITATIONS
55	Investigating the evolutionary assembly of a Mediterranean biodiversity hotspot: deep phylogenetic signal in the distribution of eudicots across elevational belts. <i>Journal of Biogeography</i> , 2015, 42, 507-518.	3.0	36
56	Diverging phenological responses of Arctic seabirds to an earlier spring. <i>Global Change Biology</i> , 2019, 25, 4081-4091.	9.5	35
57	The Geography of Ecological Niche Evolution in Mammals. <i>Current Biology</i> , 2017, 27, 1369-1374.	3.9	34
58	Working toward integrated models of alpine plant distribution. <i>Alpine Botany</i> , 2013, 123, 41-53.	2.4	31
59	Riders in the sky (islands): Using a mega-phylogenetic approach to understand plant species distribution and coexistence at the altitudinal limits of angiosperm plant life. <i>Journal of Biogeography</i> , 2017, 44, 2618-2630.	3.0	31
60	Landscape structure and genetic architecture jointly impact rates of niche evolution. <i>Ecography</i> , 2014, 37, 1218-1229.	4.5	28
61	How soil and elevation shape local plant biodiversity in a Mediterranean hotspot. <i>Biodiversity and Conservation</i> , 2016, 25, 1133-1149.	2.6	28
62	How phylogeny shapes the taxonomic and functional structure of plant-insect networks. <i>Oecologia</i> , 2016, 180, 989-1000.	2.0	28
63	Disentangling drivers of plant endemism and diversification in the European Alps – A phylogenetic and spatially explicit approach. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2017, 28, 19-27.	2.7	28
64	Continued Adaptation of C4 Photosynthesis After an Initial Burst of Changes in the Andropogoneae Grasses. <i>Systematic Biology</i> , 2020, 69, 445-461.	5.6	27
65	The building of a biodiversity hotspot across a land-bridge in the Mediterranean. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20151116.	2.6	25
66	Phylogenetic reconstruction of the genus <i>Helianthemum</i> (Cistaceae) using plastid and nuclear DNA sequences: Systematic and evolutionary inferences. <i>Taxon</i> , 2017, 66, 868-885.	0.7	25
67	Spatial congruence between taxonomic, phylogenetic and functional hotspots: true pattern or methodological artefact?. <i>Diversity and Distributions</i> , 2017, 23, 209-220.	4.1	23
68	Human-aided admixture may fuel ecosystem transformation during biological invasions: theoretical and experimental evidence. <i>Ecology and Evolution</i> , 2014, 4, 899-910.	1.9	21
69	Environmental and biotic drivers of soil microbial β -diversity across spatial and phylogenetic scales. <i>Ecography</i> , 2019, 42, 2144-2156.	4.5	21
70	Unraveling the biogeographical history of Chrysobalanaceae from plastid genomes. <i>American Journal of Botany</i> , 2016, 103, 1089-1102.	1.7	20
71	Integrating correlation between traits improves spatial predictions of plant functional composition. <i>Oikos</i> , 2018, 127, 472-481.	2.7	19
72	Differences in the fungal communities nursed by two genetic groups of the alpine cushion plant, <i>Silene acaulis</i> . <i>Ecology and Evolution</i> , 2018, 8, 11568-11581.	1.9	19

#	ARTICLE	IF	CITATIONS
73	Is There Any Evidence for Rapid, Genetically-Based, Climatic Niche Expansion in the Invasive Common Ragweed?. <i>PLoS ONE</i> , 2016, 11, e0152867.	2.5	19
74	Improving phylogenetic regression under complex evolutionary models. <i>Ecology</i> , 2016, 97, 286-293.	3.2	18
75	One Tree to Link Them All: A Phylogenetic Dataset for the European Tetrapoda. <i>PLOS Currents</i> , 2014, 6, .	1.4	18
76	Alpine and arctic plant communities: A worldwide perspective. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2018, 30, 1-5.	2.7	16
77	Changing Ecological Opportunities Facilitated the Explosive Diversification of New Caledonian Oxera (<i>Lamiaceae</i>). <i>Systematic Biology</i> , 2019, 68, 460-481.	5.6	16
78	Combining niche modelling and landscape genetics to study local adaptation: A novel approach illustrated using alpine plants. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2015, 17, 491-499.	2.7	13
79	Phylogenetic signatures of ecological divergence and leapfrog adaptive radiation in <i>Espeletia</i> . <i>American Journal of Botany</i> , 2021, 108, 113-128.	1.7	13
80	Productivity begets less phylogenetic diversity but higher uniqueness than expected. <i>Journal of Biogeography</i> , 2020, 47, 44-58.	3.0	12
81	Plumage colouration in gulls responds to their non-breeding climatic niche. <i>Global Ecology and Biogeography</i> , 2020, 29, 1704-1715.	5.8	12
82	Taxonomic revision of West-Alpine cushion plant species belonging to <i>Androsace</i> subsect. <i>Aretia</i> . <i>Botany Letters</i> , 2018, 165, 337-351.	1.4	11
83	Soil conditions drive changes in a key leaf functional trait through environmental filtering and facilitative interactions. <i>Acta Oecologica</i> , 2018, 86, 1-8.	1.1	11
84	Contrasting heterozygosity-fitness correlations between populations of a self-compatible shrub in a fragmented landscape. <i>Genetica</i> , 2012, 140, 31-38.	1.1	10
85	Phylogenetic Clustering Reveals Selective Events Driving the Turnover of Bacterial Community in Alpine Tundra Soils. <i>Arctic, Antarctic, and Alpine Research</i> , 2012, 44, 232-238.	1.1	9
86	Decomposing changes in phylogenetic and functional diversity over space and time. <i>Methods in Ecology and Evolution</i> , 2015, 6, 109-118.	5.2	8
87	ORTHOSKIM: In silico sequence capture from genomic and transcriptomic libraries for phylogenomic and barcoding applications. <i>Molecular Ecology Resources</i> , 2022, 22, 2018-2037.	4.8	7
88	Les espÃ©ces vÃ©gÃ©tales rares ont-elles des caractÃ©ristiques Ã©cologiques et biologiques qui leur sont propres? Application Ã la conservation de la flore en Languedoc-Roussillon. <i>Acta Botanica Gallica</i> , 2004, 151, 327-331.	0.9	6
89	Biogeographic history and environmental niche evolution in the palearctic genus <i>Helianthemum</i> (<i>Cistaceae</i>). <i>Molecular Phylogenetics and Evolution</i> , 2021, 163, 107238.	2.7	6
90	Evolutionary origins and species delineation of the two Pyrenean endemics <i>Campanula jaubertiana</i> and <i>C. andorrana</i> (<i>Campanulaceae</i>): evidence for transverse alpine speciation. <i>Alpine Botany</i> , 2022, 132, 51-64.	2.4	4

#	ARTICLE	IF	CITATIONS
91	Plant evolutionary ecology in mountain regions in space and time. <i>Alpine Botany</i> , 2022, 132, 1.	2.4	1
92	Can functional genomic diversity provide novel insights into mechanisms of community assembly? A pilot study from an invaded alpine streambed. <i>Ecology and Evolution</i> , 2021, 11, 12075-12091.	1.9	0