

Eric Garnier

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6889609/eric-garnier-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

115
papers

31,740
citations

57
h-index

120
g-index

120
ext. papers

37,418
ext. citations

6.6
avg, IF

6.52
L-index

#	Paper	IF	Citations
115	A starting guide to root ecology: strengthening ecological concepts and standardising root classification, sampling, processing and trait measurements. <i>New Phytologist</i> , 2021 , 232, 973-1122	9.8	31
114	Quantifying the relationship linking the community-weighted means of plant traits and soil fertility. <i>Ecology</i> , 2021 , 102, e03454	4.6	0
113	PhenoSpace: A Shiny application to visualize trait data in the phenotypic space of the global spectrum of plant form and function. <i>Ecology and Evolution</i> , 2021 , 11, 1526-1534	2.8	2
112	Functional trait effects on ecosystem stability: assembling the jigsaw puzzle. <i>Trends in Ecology and Evolution</i> , 2021 , 36, 822-836	10.9	9
111	Directional trends in species composition over time can lead to a widespread overemphasis of year-to-year asynchrony. <i>Journal of Vegetation Science</i> , 2020 , 31, 792-802	3.1	6
110	TRY plant trait database - enhanced coverage and open access. <i>Global Change Biology</i> , 2020 , 26, 119-188	11.4	399
109	Managing data locally to answer questions globally: The role of collaborative science in ecology. <i>Journal of Vegetation Science</i> , 2020 , 31, 509-517	3.1	20
108	Synchrony matters more than species richness in plant community stability at a global scale. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 24345-24351	11.5	30
107	Reproductive phenology as a dimension of the phenotypic space in 139 plant species from the Mediterranean. <i>New Phytologist</i> , 2020 , 225, 740-753	9.8	8
106	Inter- and intra-specific trait shifts among sites differing in drought conditions at the north western edge of the Mediterranean Region. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2019 , 254, 147-160	1.9	9
105	Traits determining the digestibility-decomposability relationships in species from Mediterranean rangelands. <i>Annals of Botany</i> , 2018 , 121, 459-469	4.1	10
104	When is the best time to flower and disperse? A comparative analysis of plant reproductive phenology in the Mediterranean. <i>Functional Ecology</i> , 2018 , 32, 1770-1783	5.6	8
103	A revised trait-based framework for agroecosystems including decision rules. <i>Journal of Applied Ecology</i> , 2018 , 55, 12-24	5.8	22
102	Plant demographic and functional responses to management intensification: A long-term study in a Mediterranean rangeland. <i>Journal of Ecology</i> , 2018 , 106, 1363-1376	6	13
101	Global trait-environment relationships of plant communities. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1906-1917	19.7	209
100	Interactions between Soil and Vegetation: Structure of Plant Communities and Soil Functioning 2018 , 83-104		2
99	Climate as a driver of adaptive variations in ecological strategies in <i>Arabidopsis thaliana</i> . <i>Annals of Botany</i> , 2018 , 122, 935-945	4.1	16

98	Synthesis Centers as Critical Research Infrastructure. <i>BioScience</i> , 2017 , 67, 750-759	5.7	29
97	Sensitivity of community-level trait–environment relationships to data representativeness: A test for functional biogeography. <i>Global Ecology and Biogeography</i> , 2017 , 26, 729-739	6.1	25
96	Plant community structure and nitrogen inputs modulate the climate signal on leaf traits. <i>Global Ecology and Biogeography</i> , 2017 , 26, 1138-1152	6.1	25
95	Towards a thesaurus of plant characteristics: an ecological contribution. <i>Journal of Ecology</i> , 2017 , 105, 298-309	6	75
94	A global method for calculating plant CSR ecological strategies applied across biomes world-wide. <i>Functional Ecology</i> , 2017 , 31, 444-457	5.6	191
93	Occupancy and overlap in trait space along a successional gradient in Mediterranean old fields. <i>American Journal of Botany</i> , 2016 , 103, 1050-60	2.7	18
92	The global spectrum of plant form and function. <i>Nature</i> , 2016 , 529, 167-71	50.4	1191
91	Recasting the dynamic equilibrium model through a functional lens: the interplay of trait-based community assembly and climate. <i>Journal of Ecology</i> , 2016 , 104, 781-791	6	14
90	Influence of management regime and harvest date on the forage quality of rangelands plants: the importance of dry matter content. <i>AoB PLANTS</i> , 2016 , 8,	2.9	12
89	Corrigendum to: New handbook for standardised measurement of plant functional traits worldwide. <i>Australian Journal of Botany</i> , 2016 , 64, 715	1.2	166
88	Using Functional Traits to Assess the Services Provided by Cover Plants. <i>Advances in Agronomy</i> , 2015 , 81-133	7.7	17
87	Vegetation ecology meets ecosystem science: Permanent grasslands as a functional biogeography case study. <i>Science of the Total Environment</i> , 2015 , 534, 43-51	10.2	30
86	Transdisciplinary synthesis for ecosystem science, policy and management: The Australian experience. <i>Science of the Total Environment</i> , 2015 , 534, 173-84	10.2	31
85	REVIEW: Predictive ecology in a changing world. <i>Journal of Applied Ecology</i> , 2015 , 52, 1293-1310	5.8	163
84	A functional characterisation of a wide range of cover crop species: growth and nitrogen acquisition rates, leaf traits and ecological strategies. <i>PLoS ONE</i> , 2015 , 10, e0122156	3.7	65
83	Plant Functional Diversity 2015 ,		40
82	An evolutionary perspective on leaf economics: phylogenetics of leaf mass per area in vascular plants. <i>Ecology and Evolution</i> , 2014 , 4, 2799-811	2.8	36
81	Combined effects of climate, resource availability, and plant traits on biomass produced in a Mediterranean rangeland. <i>Ecology</i> , 2014 , 95, 737-48	4.6	31

80	Are trait-based species rankings consistent across data sets and spatial scales?. <i>Journal of Vegetation Science</i> , 2014 , 25, 235-247	3.1	104
79	Plant trait digestibility relationships across management and climate gradients in permanent grasslands. <i>Journal of Applied Ecology</i> , 2014 , 51, 1207-1217	5.8	42
78	Functional traits help predict post-disturbance demography of tropical trees. <i>PLoS ONE</i> , 2014 , 9, e105023	3.7	13
77	A Semantic Web Faceted Search System for Facilitating Building of Biodiversity and Ecosystems Services. <i>Lecture Notes in Computer Science</i> , 2014 , 50-57	0.9	3
76	A decadal view of biodiversity informatics: challenges and priorities. <i>BMC Ecology</i> , 2013 , 13, 16	2.7	81
75	New handbook for standardised measurement of plant functional traits worldwide. <i>Australian Journal of Botany</i> , 2013 , 61, 167	1.2	1983
74	Partitioning phylogenetic and functional diversity into alpha and beta components along an environmental gradient in a Mediterranean rangeland. <i>Journal of Vegetation Science</i> , 2013 , 24, 877-889	3.1	36
73	Evidence for a plant community economics spectrum driven by nutrient and water limitations in a Mediterranean rangeland of southern France. <i>Journal of Ecology</i> , 2012 , 100, 1315-1327	6	116
72	Community assembly along a soil depth gradient: contrasting patterns of plant trait convergence and divergence in a Mediterranean rangeland. <i>Journal of Ecology</i> , 2012 , 100, 1422-1433	6	238
71	ThesauForm traits: A web based collaborative tool to develop a thesaurus for plant functional diversity research. <i>Ecological Informatics</i> , 2012 , 11, 34-44	4.2	20
70	A trait-based approach to comparative functional plant ecology: concepts, methods and applications for agroecology. A review. <i>Agronomy for Sustainable Development</i> , 2012 , 32, 365-399	6.8	270
69	Response of herbaceous vegetation functional diversity to land use change across five sites in Europe and Israel. <i>Israel Journal of Ecology and Evolution</i> , 2011 , 57, 53-72	0.8	18
68	TRY is a global database of plant traits. <i>Global Change Biology</i> , 2011 , 17, 2905-2935	11.4	1623
67	Suites of plant traits in species from different stages of a Mediterranean secondary succession. <i>Plant Biology</i> , 2010 , 12, 183-96	3.7	75
66	Litter quality and decomposability of species from a Mediterranean succession depend on leaf traits but not on nitrogen supply. <i>Annals of Botany</i> , 2009 , 104, 1151-61	4.1	68
65	Competition, traits and resource depletion in plant communities. <i>Oecologia</i> , 2009 , 160, 747-55	2.9	130
64	Relative climatic, edaphic and management controls of plant functional trait signatures. <i>Journal of Vegetation Science</i> , 2009 , 20, 148-159	3.1	76
63	Leaf traits capture the effects of land use changes and climate on litter decomposability of grasslands across Europe. <i>Ecology</i> , 2009 , 90, 598-611	4.6	208

62	Allocation strategies and seed traits are hardly affected by nitrogen supply in 18 species differing in successional status. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2009 , 11, 267-283	3	19
61	Effects of leaf emergence on leaf lifespan are independent of life form and successional status. <i>Austral Ecology</i> , 2008 , 33, 932-939	1.5	6
60	Plant species traits are the predominant control on litter decomposition rates within biomes worldwide. <i>Ecology Letters</i> , 2008 , 11, 1065-71	10	1605
59	Scaling environmental change through the community-level: a trait-based response-and-effect framework for plants. <i>Global Change Biology</i> , 2008 , 14, 1125-1140	11.4	780
58	Impact of abundance weighting on the response of seed traits to climate and land use. <i>Journal of Ecology</i> , 2008 , 96, 355-366	6	83
57	The LEDA Traitbase: a database of life-history traits of the Northwest European flora. <i>Journal of Ecology</i> , 2008 , 96, 1266-1274	6	1055
56	Root traits and taxonomic affiliation of nine herbaceous species grown in glasshouse conditions. <i>Plant and Soil</i> , 2008 , 312, 69-83	4.2	38
55	Can functional classification of tropical trees predict population dynamics after disturbance?. <i>Journal of Vegetation Science</i> , 2008 , 19, 209-220	3.1	23
54	Let the concept of trait be functional!. <i>Oikos</i> , 2007 , 116, 882-892	4	2260
53	Components of nutrient residence time and the leaf economics spectrum in species from Mediterranean old-fields differing in successional status. <i>Functional Ecology</i> , 2007 , 21, 235-245	5.6	50
52	Plant traits relate to whole-community litter quality and decomposition following land use change. <i>Functional Ecology</i> , 2007 , 21, 1016-1026	5.6	89
51	Relating root structure and anatomy to whole-plant functioning in 14 herbaceous Mediterranean species. <i>New Phytologist</i> , 2007 , 173, 313-21	9.8	74
50	Plant Functional Types: Are We Getting Any Closer to the Holy Grail? 2007 , 149-164		162
49	Plant traits, litter quality and decomposition in a Mediterranean old-field succession. <i>Plant and Soil</i> , 2007 , 296, 19-34	4.2	100
48	Two measurement methods of leaf dry matter content produce similar results in a broad range of species. <i>Annals of Botany</i> , 2007 , 99, 955-8	4.1	43
47	Contribution of leaf life span and nutrient resorption to mean residence time: elasticity analysis. <i>Ecology</i> , 2007 , 88, 1857-63	4.6	7
46	Assessing the effects of land-use change on plant traits, communities and ecosystem functioning in grasslands: a standardized methodology and lessons from an application to 11 European sites. <i>Annals of Botany</i> , 2007 , 99, 967-85	4.1	403
45	Let the concept of trait be functional! 2007 , 116, 882		130

44	Ecological Significance of Inherent Variation in Relative Growth Rate and Its Components. <i>Books in Soils, Plants, and the Environment</i> , 2007 ,		2
43	From plant traits to plant communities: a statistical mechanistic approach to biodiversity. <i>Science</i> , 2006 , 314, 812-4	33.3	441
42	A structural equation model to integrate changes in functional strategies during old-field succession. <i>Ecology</i> , 2006 , 87, 504-17	4.6	119
41	Ecosystem productivity can be predicted from potential relative growth rate and species abundance. <i>Ecology Letters</i> , 2006 , 9, 1061-7	10	145
40	Co-variations in litter decomposition, leaf traits and plant growth in species from a Mediterranean old-field succession. <i>Functional Ecology</i> , 2006 , 20, 21-30	5.6	162
39	A comparative growth analysis between alien invader and native <i>Senecio</i> species with distinct distribution ranges1 Associate Editor: Gilles Houle.. <i>Ecoscience</i> , 2005 , 12, 35-43	1.1	28
38	Specific leaf area and dry matter content estimate thickness in laminar leaves. <i>Annals of Botany</i> , 2005 , 96, 1129-36	4.1	299
37	Assessing the generality of global leaf trait relationships. <i>New Phytologist</i> , 2005 , 166, 485-96	9.8	1343
36	Functional linkages between leaf traits and net photosynthetic rate: reconciling empirical and mechanistic models. <i>Functional Ecology</i> , 2005 , 19, 602-615	5.6	83
35	Exploring the causes of variation in phenology and morphology in Mediterranean geophytes: a genus-wide study of <i>Cyclamen</i> . <i>Botanical Journal of the Linnean Society</i> , 2004 , 145, 469-484	2.2	43
34	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	4	258
33	The worldwide leaf economics spectrum. <i>Nature</i> , 2004 , 428, 821-7	50.4	4915
32	PLANT FUNCTIONAL MARKERS CAPTURE ECOSYSTEM PROPERTIES DURING SECONDARY SUCCESSION. <i>Ecology</i> , 2004 , 85, 2630-2637	4.6	1329
31	Do rock endemic and widespread plant species differ under the LeafHeightSeed plant ecology strategy scheme?. <i>Ecology Letters</i> , 2003 , 6, 398-404	10	102
30	Leaf life span, dynamics and construction cost of species from Mediterranean old-fields differing in successional status. <i>New Phytologist</i> , 2003 , 159, 213-228	9.8	97
29	A handbook of protocols for standardised and easy measurement of plant functional traits worldwide. <i>Australian Journal of Botany</i> , 2003 , 51, 335	1.2	2483
28	Predicting changes in community composition and ecosystem functioning from plant traits: revisiting the Holy Grail. <i>Functional Ecology</i> , 2002 , 16, 545-556	5.6	1994
27	Seeking a sound index of competitive intensity: Application to the study of biomass production under elevated CO ₂ along a nitrogen gradient. <i>Austral Ecology</i> , 2002 , 27, 463-473	1.5	10

26	Plasticity of whole plant and leaf traits in <i>Rubia peregrina</i> in response to light, nutrient and water availability. <i>Acta Oecologica</i> , 2002 , 23, 375-383	1.7	65
25	Aardvarck to Zyzyxia- functional groups across kingdoms. <i>New Phytologist</i> , 2001 , 149, 360-363	9.8	42
24	Consistency of species ranking based on functional leaf traits. <i>New Phytologist</i> , 2001 , 152, 69-83	9.8	253
23	A standardized protocol for the determination of specific leaf area and leaf dry matter content. <i>Functional Ecology</i> , 2001 , 15, 688-695	5.6	424
22	Short and long-term responses of whole-plant gas exchange to elevated CO ₂ in four herbaceous species. <i>Environmental and Experimental Botany</i> , 2000 , 43, 155-169	5.9	21
21	Contrasted nitrogen utilization in annual C3 grass and legume crops: Physiological explorations and ecological considerations. <i>Acta Oecologica</i> , 2000 , 21, 79-89	1.7	19
20	Relationships between photosynthesis, nitrogen and leaf structure in 14 grass species and their dependence on the basis of expression. <i>New Phytologist</i> , 1999 , 143, 119-129	9.8	80
19	Effect of competition on the responses of grasses and legumes to elevated atmospheric CO ₂ along a nitrogen gradient: differences between isolated plants, monocultures and multi-species mixtures. <i>New Phytologist</i> , 1999 , 143, 323-331	9.8	46
18	Challenging Theophrastus: A common core list of plant traits for functional ecology. <i>Journal of Vegetation Science</i> , 1999 , 10, 609-620	3.1	708
17	A problem for biodiversity-productivity studies: how to compare the productivity of multispecific plant mixtures to that of monocultures?. <i>Acta Oecologica</i> , 1997 , 18, 657-670	1.7	93
16	Specific leaf area and leaf nitrogen concentration in annual and perennial grass species growing in Mediterranean old-fields. <i>Oecologia</i> , 1997 , 111, 490-498	2.9	87
15	Variation in relative growth rate and its components in the annual <i>Polygonum aviculare</i> in relation to habitat disturbance and seed size. <i>Oecologia</i> , 1996 , 108, 438-445	2.9	37
14	Plant growth analysis: an evaluation of experimental design and computational methods. <i>Journal of Experimental Botany</i> , 1996 , 47, 1343-1351	7	62
13	Nitrogen Productivity Depends on Photosynthetic Nitrogen Use Efficiency and on Nitrogen Allocation Within the Plant. <i>Annals of Botany</i> , 1995 , 76, 667-672	4.1	66
12	Leaf anatomy, specific mass and water content in congeneric annual and perennial grass species. <i>New Phytologist</i> , 1994 , 128, 725-736	9.8	285
11	Carbon and nitrogen content of congeneric annual and perennial grass species: relationships with growth. <i>Plant, Cell and Environment</i> , 1994 , 17, 399-407	8.4	43
10	Growth Analysis of Congeneric Annual and Perennial Grass Species. <i>Journal of Ecology</i> , 1992 , 80, 665	6	237
9	Resource capture, biomass allocation and growth in herbaceous plants. <i>Trends in Ecology and Evolution</i> , 1991 , 6, 126-31	10.9	161

8	Demography and Growth Forms of the Clonal Perennial Rubia Peregrina in Mediterranean Vineyard and Unmanaged Habitats. <i>Journal of Ecology</i> , 1990 , 78, 691	6	19
7	Responses of wild plants to nitrate availability : Relationships between growth rate and nitrate uptake parameters, a case study with two Bromus species, and a survey. <i>Oecologia</i> , 1989 , 79, 542-550	2.9	37
6	Modular and Demographic Analysis of Plant Leaf Area in Sward and Woodland Populations of Dactylis Glomerata and Bromus Erectus. <i>Journal of Ecology</i> , 1988 , 76, 729	6	8
5	The influence of drought on stomatal conductance and water potential of peach trees growing in the field. <i>Scientia Horticulturae</i> , 1987 , 32, 249-263	4.1	31
4	Effect of Water Stress on Stem Diameter Changes of Peach Trees Growing in the Field. <i>Journal of Applied Ecology</i> , 1986 , 23, 193	5.8	41
3	Water balance and pattern of soil water uptake in a peach orchard. <i>Agricultural Water Management</i> , 1986 , 11, 145-158	5.9	22
2	Seeking a sound index of competitive intensity: Application to the study of biomass production under elevated CO ₂ along a nitrogen gradient. <i>Austral Ecology</i> , 27 , 463-473	1.5	
1	Climate as a driver of adaptive variations in ecological strategies in Arabidopsis thaliana		1