

Eric Garnier

List of Publications by Citations

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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	The worldwide leaf economics spectrum. <i>Nature</i> , 2004 , 428, 821-7	50.4	4915
114	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
113	Let the concept of trait be functional!. <i>Oikos</i> , 2007 , 116, 882-892	4	2260
112	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
111	New handbook for standardised measurement of plant functional traits worldwide. <i>Australian Journal of Botany</i> , 2013 , 61, 167	1.2	1983
110	TRY  global database of plant traits. <i>Global Change Biology</i> , 2011 , 17, 2905-2935	11.4	1623
109	Plant species traits are the predominant control on litter decomposition rates within biomes worldwide. <i>Ecology Letters</i> , 2008 , 11, 1065-71	10	1605
108	Assessing the generality of global leaf trait relationships. <i>New Phytologist</i> , 2005 , 166, 485-96	9.8	1343
107	PLANT FUNCTIONAL MARKERS CAPTURE ECOSYSTEM PROPERTIES DURING SECONDARY SUCCESSION. <i>Ecology</i> , 2004 , 85, 2630-2637	4.6	1329
106	The global spectrum of plant form and function. <i>Nature</i> , 2016 , 529, 167-71	50.4	1191
105	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
104	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
103	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
102	From plant traits to plant communities: a statistical mechanistic approach to biodiversity. <i>Science</i> , 2006 , 314, 812-4	33.3	441
101	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
100	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
99	TRY plant trait database - enhanced coverage and open access. <i>Global Change Biology</i> , 2020 , 26, 119-188	11.4	399

98	Specific leaf area and dry matter content estimate thickness in laminar leaves. <i>Annals of Botany</i> , 2005 , 96, 1129-36	4.1	299
97	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
96	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
95	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
94	Consistency of species ranking based on functional leaf traits. <i>New Phytologist</i> , 2001 , 152, 69-83	9.8	253
93	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
92	Growth Analysis of Congeneric Annual and Perennial Grass Species. <i>Journal of Ecology</i> , 1992 , 80, 665	6	237
91	Global trait-environment relationships of plant communities. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1906-1917	1.1	209
90	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
89	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
88	Corrigendum to: New handbook for standardised measurement of plant functional traits worldwide. <i>Australian Journal of Botany</i> , 2016 , 64, 715	1.2	166
87	REVIEW: Predictive ecology in a changing world. <i>Journal of Applied Ecology</i> , 2015 , 52, 1293-1310	5.8	163
86	Plant Functional Types: Are We Getting Any Closer to the Holy Grail? 2007 , 149-164		162
85	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
84	Resource capture, biomass allocation and growth in herbaceous plants. <i>Trends in Ecology and Evolution</i> , 1991 , 6, 126-31	10.9	161
83	Ecosystem productivity can be predicted from potential relative growth rate and species abundance. <i>Ecology Letters</i> , 2006 , 9, 1061-7	10	145
82	Competition, traits and resource depletion in plant communities. <i>Oecologia</i> , 2009 , 160, 747-55	2.9	130
81	Let the concept of trait be functional! 2007 , 116, 882		130

80	A structural equation model to integrate changes in functional strategies during old-field succession. <i>Ecology</i> , 2006 , 87, 504-17	4.6	119
79	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
78	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
77	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	10	102
76	Plant traits, litter quality and decomposition in a Mediterranean old-field succession. <i>Plant and Soil</i> , 2007 , 296, 19-34	4.2	100
75	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
74	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
73	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
72	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
71	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
70	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
69	A decadal view of biodiversity informatics: challenges and priorities. <i>BMC Ecology</i> , 2013 , 13, 16	2.7	81
68	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
67	Relative climatic, edaphic and management controls of plant functional trait signatures. <i>Journal of Vegetation Science</i> , 2009 , 20, 148-159	3.1	76
66	Towards a thesaurus of plant characteristics: an ecological contribution. <i>Journal of Ecology</i> , 2017 , 105, 298-309	6	75
65	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
64	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
63	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

62	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
61	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
60	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
59	Plant growth analysis: an evaluation of experimental design and computational methods. <i>Journal of Experimental Botany</i> , 1996 , 47, 1343-1351	7	62
58	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
57	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
56	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
55	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
54	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
53	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
52	Aardvarck to Zyzyxia- functional groups across kingdoms. <i>New Phytologist</i> , 2001 , 149, 360-363	9.8	42
51	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
50	Plant Functional Diversity 2015 ,		40
49	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
48	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
47	Responses of wild plants to nitrate availability : Relationships between growth rate and nitrate uptake parameters, a case study with two <i>Bromus</i> species, and a survey. <i>Oecologia</i> , 1989 , 79, 542-550	2.9	37
46	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
45	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

44	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
43	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
42	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
41	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
40	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
39	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
38	Synthesis Centers as Critical Research Infrastructure. <i>BioScience</i> , 2017 , 67, 750-759	5.7	29
37	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
36	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
35	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
34	Can functional classification of tropical trees predict population dynamics after disturbance?. <i>Journal of Vegetation Science</i> , 2008 , 19, 209-220	3.1	23
33	A revised trait-based framework for agroecosystems including decision rules. <i>Journal of Applied Ecology</i> , 2018 , 55, 12-24	5.8	22
32	Water balance and pattern of soil water uptake in a peach orchard. <i>Agricultural Water Management</i> , 1986 , 11, 145-158	5.9	22
31	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
30	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
29	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
28	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
27	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

26	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
25	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
24	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
23	Using Functional Traits to Assess the Services Provided by Cover Plants. <i>Advances in Agronomy</i> , 2015 , 81-133	7.7	17
22	Climate as a driver of adaptive variations in ecological strategies in Arabidopsis thaliana. <i>Annals of Botany</i> , 2018 , 122, 935-945	4.1	16
21	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
20	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
19	Functional traits help predict post-disturbance demography of tropical trees. <i>PLoS ONE</i> , 2014 , 9, e105023	3.7	13
18	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
17	Traits determining the digestibility-decomposability relationships in species from Mediterranean rangelands. <i>Annals of Botany</i> , 2018 , 121, 459-469	4.1	10
16	Seeking a sound index of competitive intensity: Application to the study of biomass production under elevated CO2 along a nitrogen gradient. <i>Austral Ecology</i> , 2002 , 27, 463-473	1.5	10
15	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
14	Functional trait effects on ecosystem stability: assembling the jigsaw puzzle. <i>Trends in Ecology and Evolution</i> , 2021 , 36, 822-836	10.9	9
13	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
12	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
11	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
10	Contribution of leaf life span and nutrient resorption to mean residence time: elasticity analysis. <i>Ecology</i> , 2007 , 88, 1857-63	4.6	7
9	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

8	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
7	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
6	Ecological Significance of Inherent Variation in Relative Growth Rate and Its Components. <i>Books in Soils, Plants, and the Environment</i> , 2007 ,		2
5	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
4	Interactions between Soil and Vegetation: Structure of Plant Communities and Soil Functioning 2018 , 83-104		2
3	Climate as a driver of adaptive variations in ecological strategies in <i>Arabidopsis thaliana</i>		1
2	Quantifying the relationship linking the community-weighted means of plant traits and soil fertility. <i>Ecology</i> , 2021 , 102, e03454	4.6	0
1	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> , 2007 , 32, 463-473	1.5	