

# Nicolas Gross

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

6,122  
citations

117625

34  
h-index

289244

40  
g-index

41  
all docs

41  
docs citations

41  
times ranked

8599  
citing authors

#	ARTICLE	IF	CITATIONS
1	TRY plant trait database "enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	9.5	1,038
2	A global meta-analysis of the relative extent of intraspecific trait variation in plant communities. <i>Ecology Letters</i> , 2015, 18, 1406-1419.	6.4	768
3	Global ecosystem thresholds driven by aridity. <i>Science</i> , 2020, 367, 787-790.	12.6	526
4	Increasing crop heterogeneity enhances multitrophic diversity across agricultural regions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16442-16447.	7.1	312
5	Functional trait diversity maximizes ecosystem multifunctionality. <i>Nature Ecology and Evolution</i> , 2017, 1, 0132-132.	7.8	277
6	Climate mediates the biodiversity-ecosystem stability relationship globally. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8400-8405.	7.1	229
7	Habitat filtering and niche differentiation jointly explain species relative abundance within grassland communities along fertility and disturbance gradients. <i>New Phytologist</i> , 2012, 196, 497-509.	7.3	214
8	Phylogenetic, functional, and taxonomic richness have both positive and negative effects on ecosystem multifunctionality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8419-8424.	7.1	199
9	Functional diversity enhances the resistance of ecosystem multifunctionality to aridity in Mediterranean drylands. <i>New Phytologist</i> , 2015, 206, 660-671.	7.3	167
10	Mapping local and global variability in plant trait distributions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E10937-E10946.	7.1	159
11	Testing the environmental filtering concept in global drylands. <i>Journal of Ecology</i> , 2017, 105, 1058-1069.	4.0	156
12	Linking individual response to biotic interactions with community structure: a trait-based framework. <i>Functional Ecology</i> , 2009, 23, 1167-1178.	3.6	151
13	Biogeography of global drylands. <i>New Phytologist</i> , 2021, 231, 540-558.	7.3	145
14	Trade-off between root nitrogen acquisition and shoot nitrogen utilization across 13 co-occurring pasture grass species. <i>Functional Ecology</i> , 2009, 23, 668-679.	3.6	132
15	Uncovering multiscale effects of aridity and biotic interactions on the functional structure of Mediterranean shrublands. <i>Journal of Ecology</i> , 2013, 101, 637-649.	4.0	131
16	Soil fungal abundance and plant functional traits drive fertile island formation in global drylands. <i>Journal of Ecology</i> , 2018, 106, 242-253.	4.0	123
17	Leaf dry matter content and lateral spread predict response to land use change for six subalpine grassland species. <i>Journal of Vegetation Science</i> , 2007, 18, 289-300.	2.2	121
18	Complementarity as a mechanism of coexistence between functional groups of grasses. <i>Journal of Ecology</i> , 2007, 95, 1296-1305.	4.0	117

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19	Habitat quality as a predictor of spatial variation in blue tit reproductive performance: a multi-plot analysis in a heterogeneous landscape. <i>Oecologia</i> , 2004, 141, 555-561.	2.0	98
20	Land-use history impacts functional diversity across multiple trophic groups. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1573-1579.	7.1	89
21	Density of insect-pollinated grassland plants decreases with increasing surrounding land-use intensity. <i>Ecology Letters</i> , 2014, 17, 1168-1177.	6.4	87
22	Plant response traits mediate the effects of subalpine grasslands on soil moisture. <i>New Phytologist</i> , 2008, 180, 652-662.	7.3	85
23	Strain and vegetation effects on local limiting resources explain the outcomes of biotic interactions. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2010, 12, 9-19.	2.7	85
24	Gemini: A grassland model simulating the role of plant traits for community dynamics and ecosystem functioning. Parameterization and evaluation. <i>Ecological Modelling</i> , 2012, 231, 134-145.	2.5	77
25	Indirect facilitation promotes macrophyte survival and growth in freshwater ecosystems threatened by eutrophication. <i>Journal of Ecology</i> , 2012, 100, 530-538.	4.0	68
26	Functional differences between alien and native species: do biotic interactions determine the functional structure of highly invaded grasslands?. <i>Functional Ecology</i> , 2013, 27, 1262-1272.	3.6	60
27	Functional trait diversity across trophic levels determines herbivore impact on plant community biomass. <i>Ecology Letters</i> , 2015, 18, 1346-1355.	6.4	56
28	Disentangling Coordination among Functional Traits Using an Individual-Centred Model: Impact on Plant Performance at Intra- and Inter-Specific Levels. <i>PLoS ONE</i> , 2013, 8, e77372.	2.5	53
29	Comment on "Productivity Is a Poor Predictor of Plant Species Richness". <i>Science</i> , 2012, 335, 1441-1441.	12.6	49
30	Functional equivalence, competitive hierarchy and facilitation determine species coexistence in highly invaded grasslands. <i>New Phytologist</i> , 2015, 206, 175-186.	7.3	49
31	Configurational crop heterogeneity increases within-field plant diversity. <i>Journal of Applied Ecology</i> , 2020, 57, 654-663.	4.0	47
32	Functional rarity and evenness are key facets of biodiversity to boost multifunctionality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	46
33	Herbivore effect traits and their impact on plant community biomass: an experimental test using grasshoppers. <i>Functional Ecology</i> , 2015, 29, 650-661.	3.6	41
34	Traits of neighbouring plants and space limitation determine intraspecific trait variability in semi-arid shrublands. <i>Journal of Ecology</i> , 2015, 103, 1647-1657.	4.0	39
35	Facilitation displaces hotspots of diversity and allows communities to persist in heavily stressed and disturbed environments. <i>Journal of Vegetation Science</i> , 2014, 25, 66-76.	2.2	33
36	Effects of land-use change on productivity depend on small-scale plant species diversity. <i>Basic and Applied Ecology</i> , 2009, 10, 687-696.	2.7	24

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37	Trait-mediated effect of arbuscular mycorrhiza on the competitive effect and response of a monopolistic species. <i>Functional Ecology</i> , 2010, 24, 1122-1132.	3.6	22
38	Unveiling ecological assembly rules from commonalities in trait distributions. <i>Ecology Letters</i> , 2021, 24, 1668-1680.	6.4	21
39	Plasticity of plant form and function sustains productivity and dominance along environment and competition gradients. A modeling experiment with Gemini. <i>Ecological Modelling</i> , 2013, 254, 80-91.	2.5	18
40	Enhancing grasshopper (Orthoptera: Acrididae) communities in sown margin strips: the role of plant diversity and identity. <i>Arthropod-Plant Interactions</i> , 2015, 9, 333-346.	1.1	10