Nicolas Gross

List of Publications by Year
in descending order

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40 papers	6,122 citations	117571 34 h-index	289141 40 g-index
41 all docs	41 docs citations	41 times ranked	8599 citing authors

#	Article	IF	Citations
1	Functional rarity and evenness are key facets of biodiversity to boost multifunctionality. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	46
2	Biogeography of global drylands. New Phytologist, 2021, 231, 540-558.	3.5	145
3	Unveiling ecological assembly rules from commonalities in trait distributions. Ecology Letters, 2021, 24, 1668-1680.	3.0	21
4	TRY plant trait database â€“ enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	4.2	1,038
5	Land-use history impacts functional diversity across multiple trophic groups. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1573-1579.	3.3	89
6	Configurational crop heterogeneity increases withinâ€field plant diversity. Journal of Applied Ecology, 2020, 57, 654-663.	1.9	47
7	Global ecosystem thresholds driven by aridity. Science, 2020, 367, 787-790.	6.0	526
8	Increasing crop heterogeneity enhances multitrophic diversity across agricultural regions. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16442-16447.	3.3	312
9	Phylogenetic, functional, and taxonomic richness have both positive and negative effects on ecosystem multifunctionality. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8419-8424.	3.3	199
10	Soil fungal abundance and plant functional traits drive fertile island formation in global drylands. Journal of Ecology, 2018, 106, 242-253.	1.9	123
11	Climate mediates the biodiversityâ€“ecosystem stability relationship globally. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8400-8405.	3.3	229
12	Testing the environmental filtering concept in global drylands. Journal of Ecology, 2017, 105, 1058-1069.	1.9	156
13	Functional trait diversity maximizes ecosystem multifunctionality. Nature Ecology and Evolution, 2017, 1, 0132-132.	3.4	277
14	Mapping local and global variability in plant trait distributions. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10937-E10946.	3.3	159
15	A global metaâ€analysis of the relative extent of intraspecific trait variation in plant communities. Ecology Letters, 2015, 18, 1406-1419.	3.0	768
16	Functional trait diversity across trophic levels determines herbivore impact on plant community biomass. Ecology Letters, 2015, 18, 1346-1355.	3.0	56
17	Functional diversity enhances the resistance of ecosystem multifunctionality to aridity in <scp>M</scp>editerranean drylands. New Phytologist, 2015, 206, 660-671.	3.5	167
18	Enhancing grasshopper (Orthoptera: Acrididae) communities in sown margin strips: the role of plant diversity and identity. Arthropod-Plant Interactions, 2015, 9, 333-346.	0.5	10

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19	Traits of neighbouring plants and space limitation determine intraspecific trait variability in semiâ€arid shrublands. Journal of Ecology, 2015, 103, 1647-1657.	1.9	39
20	Functional equivalence, competitive hierarchy and facilitation determine species coexistence in highly invaded grasslands. New Phytologist, 2015, 206, 175-186.	3.5	49
21	Herbivore effect traits and their impact on plant community biomass: an experimental test using grasshoppers. Functional Ecology, 2015, 29, 650-661.	1.7	41
22	Facilitation displaces hotspots of diversity and allows communities to persist in heavily stressed and disturbed environments. Journal of Vegetation Science, 2014, 25, 66-76.	1.1	33
23	Density of insectâ€pollinated grassland plants decreases with increasing surrounding landâ€use intensity. Ecology Letters, 2014, 17, 1168-1177.	3.0	87
24	Plasticity of plant form and function sustains productivity and dominance along environment and competition gradients. A modeling experiment with Gemini. Ecological Modelling, 2013, 254, 80-91.	1.2	18
25	Uncovering multiscale effects of aridity and biotic interactions on the functional structure of Mediterranean shrublands. Journal of Ecology, 2013, 101, 637-649.	1.9	131
26	Functional differences between alien and native species: do biotic interactions determine the functional structure of highly invaded grasslands?. Functional Ecology, 2013, 27, 1262-1272.	1.7	60
27	Disentangling Coordination among Functional Traits Using an Individual-Centred Model: Impact on Plant Performance at Intra- and Inter-Specific Levels. PLoS ONE, 2013, 8, e77372.	1.1	53
28	Comment on â€œProductivity Is a Poor Predictor of Plant Species Richnessâ€. Science, 2012, 335, 1441-1441.	6.0	49
29	Habitat filtering and niche differentiation jointly explain species relative abundance within grassland communities along fertility and disturbance gradients. New Phytologist, 2012, 196, 497-509.	3.5	214
30	Indirect facilitation promotes macrophyte survival and growth in freshwater ecosystems threatened by eutrophication. Journal of Ecology, 2012, 100, 530-538.	1.9	68
31	Gemini: A grassland model simulating the role of plant traits for community dynamics and ecosystem functioning. Parameterization and evaluation. Ecological Modelling, 2012, 231, 134-145.	1.2	77
32	Traitâ€mediated effect of arbuscular mycorrhiza on the competitive effect and response of a monopolistic species. Functional Ecology, 2010, 24, 1122-1132.	1.7	22
33	Strain and vegetation effects on local limiting resources explain the outcomes of biotic interactions. Perspectives in Plant Ecology, Evolution and Systematics, 2010, 12, 9-19.	1.1	85
34	Effects of land-use change on productivity depend on small-scale plant species diversity. Basic and Applied Ecology, 2009, 10, 687-696.	1.2	24
35	Tradeâ€off between root nitrogen acquisition and shoot nitrogen utilization across 13 coâ€occurring pasture grass species. Functional Ecology, 2009, 23, 668-679.	1.7	132
36	Linking individual response to biotic interactions with community structure: a traitâ€based framework. Functional Ecology, 2009, 23, 1167-1178.	1.7	151

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37	Plant response traits mediate the effects of subalpine grasslands on soil moisture. New Phytologist, 2008, 180, 652-662.	3.5	85
38	Complementarity as a mechanism of coexistence between functional groups of grasses. Journal of Ecology, 2007, 95, 1296-1305.	1.9	117
39	Leaf dry matter content and lateral spread predict response to land use change for six subalpine grassland species. Journal of Vegetation Science, 2007, 18, 289-300.	1.1	121
40	Habitat quality as a predictor of spatial variation in blue tit reproductive performance: a multi-plot analysis in a heterogeneous landscape. Oecologia, 2004, 141, 555-561.	0.9	98