

# Stephan Unger

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

874  
citations

567281

15  
h-index

580821

25  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1420  
citing authors

#	ARTICLE	IF	CITATIONS
1	The influence of precipitation pulses on soil respiration – Assessing the “Birch effect” by stable carbon isotopes. <i>Soil Biology and Biochemistry</i> , 2010, 42, 1800-1810.	8.8	209
2	Progress and challenges in using stable isotopes to trace plant carbon and water relations across scales. <i>Biogeosciences</i> , 2012, 9, 3083-3111.	3.3	138
3	Importance of short-term dynamics in carbon isotope ratios of ecosystem respiration ( $\delta^{13}C_R$ ) in a Mediterranean oak woodland and linkage to environmental factors. <i>New Phytologist</i> , 2006, 172, 330-346.	7.3	52
4	Endophytic <i>Metarhizium brunneum</i> mitigates nutrient deficits in potato and improves plant productivity and vitality. <i>Fungal Ecology</i> , 2018, 34, 43-49.	1.6	50
5	Short-term dynamics of isotopic composition of leaf-respired $CO_2$ upon darkening: measurements and implications. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 2428-2438.	1.5	47
6	Disentangling drought-induced variation in ecosystem and soil respiration using stable carbon isotopes. <i>Oecologia</i> , 2010, 163, 1043-1057.	2.0	46
7	Partitioning carbon fluxes in a Mediterranean oak forest to disentangle changes in ecosystem sink strength during drought. <i>Agricultural and Forest Meteorology</i> , 2009, 149, 949-961.	4.8	41
8	Interpreting post-drought rewetting effects on soil and ecosystem carbon dynamics in a Mediterranean oak savannah. <i>Agricultural and Forest Meteorology</i> , 2012, 154-155, 9-18.	4.8	36
9	Resilience of montado understorey to experimental precipitation variability fails under severe natural drought. <i>Agriculture, Ecosystems and Environment</i> , 2013, 178, 18-30.	5.3	30
10	Precipitation variability does not affect soil respiration and nitrogen dynamics in the understorey of a Mediterranean oak woodland. <i>Plant and Soil</i> , 2013, 372, 235-251.	3.7	27
11	Allocation trade-off between root and mycorrhizal surface defines nitrogen and phosphorus relations in 13 grassland species. <i>Plant and Soil</i> , 2016, 407, 279-292.	3.7	27
12	Consequences of Changing Precipitation Patterns for Ecosystem Functioning in Grasslands: A Review. <i>Progress in Botany Fortschritte Der Botanik</i> , 2015, , 347-393.	0.3	25
13	The impact of changes in the timing of precipitation on the herbaceous understorey of Mediterranean evergreen oak woodlands. <i>Agricultural and Forest Meteorology</i> , 2013, 171-172, 163-173.	4.8	22
14	Conditions Promoting Mycorrhizal Parasitism Are of Minor Importance for Competitive Interactions in Two Differentially Mycotrophic Species. <i>Frontiers in Plant Science</i> , 2016, 7, 1465.	3.6	18
15	Importance of phosphorus supply through endophytic <i>Metarhizium brunneum</i> for root:shoot allocation and root architecture in potato plants. <i>Plant and Soil</i> , 2018, 430, 87-97.	3.7	17
16	Can arbuscular mycorrhizal fungi mitigate drought stress in annual pasture legumes?. <i>Plant and Soil</i> , 2022, 472, 295-310.	3.7	15
17	Potential advantages of highly mycotrophic foraging for the establishment of early successional pioneer plants on sand. <i>Functional Plant Biology</i> , 2015, 42, 95.	2.1	13
18	Role of mycorrhization and nutrient availability in competitive interactions between the grassland species <i>Plantago lanceolata</i> and <i>Hieracium pilosella</i> . <i>Plant Ecology</i> , 2015, 216, 887-899.	1.6	13

#	ARTICLE	IF	CITATIONS
19	Species-specific adaptations explain resilience of herbaceous understorey to increased precipitation variability in a Mediterranean oak woodland. <i>Ecology and Evolution</i> , 2015, 5, 4246-4262.	1.9	11
20	Relationship between mycorrhizal responsiveness and root traits in European sand dune species. <i>Rhizosphere</i> , 2017, 3, 160-169.	3.0	9
21	Overwhelming effects of autumn-time drought during seedling establishment impair recovery potential in sown and semi-natural pastures in Portugal. <i>Plant Ecology</i> , 2019, 220, 183-197.	1.6	8
22	Nitrogen limitation impairs plant control over the arbuscular mycorrhizal symbiosis in response to phosphorus and shading in two European sand dune species. <i>Plant Ecology</i> , 2018, 219, 17-29.	1.6	5
23	Temporal Dynamics in $\delta^{13}C$ of Ecosystem Respiration in Response to Environmental Changes. , 2007, , 193-210.		5
24	Effects of precipitation variability on carbon and water fluxes in the understorey of a nitrogen-limited montado ecosystem. <i>Oecologia</i> , 2014, 176, 1199-1212.	2.0	4
25	Arbuscular Mycorrhizal Fungi and Nutrition Determine the Outcome of Competition Between <i>Lolium multiflorum</i> and <i>Trifolium subterraneum</i> . <i>Frontiers in Plant Science</i> , 2021, 12, 778861.	3.6	4
26	Temporal Dynamics in $\delta^{13}C$ of Ecosystem Respiration in Response to Environmental Changes. <i>Journal of Nano Education (Print)</i> , 2007, , 191-210.	0.3	2