

Raul Ochoa Hueso

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

2,934
citations

218677

26
h-index

182427

51
g-index

84
all docs

84
docs citations

84
times ranked

4502
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmental impacts of utility-scale solar energy. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 29, 766-779.	16.4	429
2	Drought consistently alters the composition of soil fungal and bacterial communities in grasslands from two continents. <i>Global Change Biology</i> , 2018, 24, 2818-2827.	9.5	221
3	The fate of carbon in a mature forest under carbon dioxide enrichment. <i>Nature</i> , 2020, 580, 227-231.	27.8	218
4	Species richness effects on ecosystem multifunctionality depend on evenness, composition and spatial pattern. <i>Journal of Ecology</i> , 2012, 100, 317-330.	4.0	178
5	Biogeography of global drylands. <i>New Phytologist</i> , 2021, 231, 540-558.	7.3	145
6	Nitrogen deposition effects on Mediterranean-type ecosystems: An ecological assessment. <i>Environmental Pollution</i> , 2011, 159, 2265-2279.	7.5	130
7	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
8	Ecological impacts of atmospheric pollution and interactions with climate change in terrestrial ecosystems of the Mediterranean Basin: Current research and future directions. <i>Environmental Pollution</i> , 2017, 227, 194-206.	7.5	98
9	Bryophyte-Cyanobacteria Associations during Primary Succession in Recently Deglaciated Areas of Tierra del Fuego (Chile). <i>PLoS ONE</i> , 2014, 9, e96081.	2.5	72
10	Spatial distribution and physiology of biological soil crusts from semi-arid central Spain are related to soil chemistry and shrub cover. <i>Soil Biology and Biochemistry</i> , 2011, 43, 1894-1901.	8.8	58
11	Soil net nitrogen mineralisation across global grasslands. <i>Nature Communications</i> , 2019, 10, 4981.	12.8	57
12	Ecosystem type and resource quality are more important than global change drivers in regulating early stages of litter decomposition. <i>Soil Biology and Biochemistry</i> , 2019, 129, 144-152.	8.8	52
13	Nitrogen deposition alters nitrogen cycling and reduces soil carbon content in low-productivity semiarid Mediterranean ecosystems. <i>Environmental Pollution</i> , 2013, 179, 185-193.	7.5	50
14	Size-dependent loss of aboveground animals differentially affects grassland ecosystem coupling and functions. <i>Nature Communications</i> , 2018, 9, 3684.	12.8	46
15	Biocrusts in the Context of Global Change. <i>Ecological Studies</i> , 2016, , 451-476.	1.2	45
16	Nitrogen fertilization and water supply affect germination and plant establishment of the soil seed bank present in a semi-arid Mediterranean scrubland. <i>Plant Ecology</i> , 2010, 210, 263-273.	1.6	41
17	Rhizosphere-driven increase in nitrogen and phosphorus availability under elevated atmospheric CO ₂ in a mature Eucalyptus woodland. <i>Plant and Soil</i> , 2017, 416, 283-295.	3.7	40
18	Effects of nitrogen deposition and soil fertility on cover and physiology of <i>Cladonia foliacea</i> (Huds.) Willd., a lichen of biological soil crusts from Mediterranean Spain. <i>Environmental Pollution</i> , 2011, 159, 449-457.	7.5	39

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19	Impacts of increased nitrogen deposition and altered precipitation regimes on soil fertility and functioning in semiarid Mediterranean shrublands. <i>Journal of Arid Environments</i> , 2014, 104, 106-115.	2.4	39
20	DRI-Grass: A New Experimental Platform for Addressing Grassland Ecosystem Responses to Future Precipitation Scenarios in South-East Australia. <i>Frontiers in Plant Science</i> , 2016, 7, 1373.	3.6	36
21	Nutrients cause grassland biomass to outpace herbivory. <i>Nature Communications</i> , 2020, 11, 6036.	12.8	35
22	Afforestation falls short as a biodiversity strategy. <i>Science</i> , 2020, 368, 1439-1439.	12.6	33
23	Climatic conditions, soil fertility and atmospheric nitrogen deposition largely determine the structure and functioning of microbial communities in biocrust-dominated Mediterranean drylands. <i>Plant and Soil</i> , 2016, 399, 271-282.	3.7	32
24	Temporal dynamics of mycorrhizal fungal communities and co-associations with grassland plant communities following experimental manipulation of rainfall. <i>Journal of Ecology</i> , 2020, 108, 515-527.	4.0	32
25	Biogeochemical indicators of elevated nitrogen deposition in semiarid Mediterranean ecosystems. <i>Environmental Monitoring and Assessment</i> , 2014, 186, 5831-5842.	2.7	30
26	Nonlinear disruption of ecological interactions in response to nitrogen deposition. <i>Ecology</i> , 2016, 97, 2802-2814.	3.2	28
27	Methods and approaches to advance soil macroecology. <i>Global Ecology and Biogeography</i> , 2020, 29, 1674-1690.	5.8	28
28	Microbial processing of plant remains is co-limited by multiple nutrients in global grasslands. <i>Global Change Biology</i> , 2020, 26, 4572-4582.	9.5	27
29	Links between soil microbial communities, functioning, and plant nutrition under altered rainfall in Australian grassland. <i>Ecological Monographs</i> , 2020, 90, e01424.	5.4	26
30	Ecosystem coupling: A unifying framework to understand the functioning and recovery of ecosystems. <i>One Earth</i> , 2021, 4, 951-966.	6.8	26
31	Alternative methods for sampling and preservation of photosynthetic pigments and tocopherols in plant material from remote locations. <i>Photosynthesis Research</i> , 2009, 101, 77-88.	2.9	25
32	Elevated CO ₂ concentrations reduce C ₄ cover and decrease diversity of understorey plant community in a <i>Eucalyptus</i> woodland. <i>Journal of Ecology</i> , 2018, 106, 1483-1494.	4.0	25
33	Global impacts of fertilization and herbivore removal on soil net nitrogen mineralization are modulated by local climate and soil properties. <i>Global Change Biology</i> , 2020, 26, 7173-7185.	9.5	25
34	Soil chemistry and fertility alterations in response to N application in a semiarid Mediterranean shrubland. <i>Science of the Total Environment</i> , 2013, 452-453, 78-86.	8.0	24
35	Livestock grazing abandonment reduces soil microbial activity and carbon storage in a Mediterranean Dehesa. <i>Applied Soil Ecology</i> , 2020, 153, 103588.	4.3	24
36	Simulated nitrogen deposition affects soil fauna from a semiarid Mediterranean ecosystem in central Spain. <i>Biology and Fertility of Soils</i> , 2014, 50, 191-196.	4.3	23

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37	Nitrogen deposition effects on tissue chemistry and phosphatase activity in <i>Cladonia foliacea</i> (Huds.) Willd., a common terricolous lichen of semi-arid Mediterranean shrublands. <i>Journal of Arid Environments</i> , 2013, 88, 78-81.	2.4	22
38	Global Change and the Soil Microbiome: A Human-Health Perspective. <i>Frontiers in Ecology and Evolution</i> , 2017, 5, .	2.2	19
39	Effects of nitrogen deposition on the spatial pattern of biocrusts and soil microbial activity in a semi-arid Mediterranean shrubland. <i>Functional Ecology</i> , 2020, 34, 923-937.	3.6	19
40	Impacts of Simulated N Deposition on Plants and Mycorrhizae from Spanish Semiarid Mediterranean Shrublands. <i>Ecosystems</i> , 2013, 16, 838-851.	3.4	17
41	Impacts of altered precipitation, nitrogen deposition and plant competition on a Mediterranean seed bank. <i>Journal of Vegetation Science</i> , 2014, 25, 1289-1298.	2.2	17
42	Soil element coupling is driven by ecological context and atomic mass. <i>Ecology Letters</i> , 2021, 24, 319-326.	6.4	17
43	Effects of elevated CO ₂ on fine root biomass are reduced by aridity but enhanced by soil nitrogen: A global assessment. <i>Scientific Reports</i> , 2017, 7, 15355.	3.3	16
44	Contrasting effects of nitrogen addition on soil respiration in two Mediterranean ecosystems. <i>Environmental Science and Pollution Research</i> , 2017, 24, 26160-26171.	5.3	15
45	Nitrogen inputs may improve soil biocrusts multifunctionality in dryland ecosystems. <i>Soil Biology and Biochemistry</i> , 2020, 149, 107947.	8.8	14
46	Temporal rarity is a better predictor of local extinction risk than spatial rarity. <i>Ecology</i> , 2021, 102, e03504.	3.2	14
47	Effects of Nitrogen Deposition on Growth and Physiology of <i>Pleurochaete squarrosa</i> (Brid.) Lindb., a Terricolous Moss from Mediterranean Ecosystems. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	2.4	13
48	Simulated nitrogen deposition influences soil greenhouse gas fluxes in a Mediterranean dryland. <i>Science of the Total Environment</i> , 2020, 737, 139610.	8.0	13
49	Decoupling of nutrient cycles in a <i>Eucalyptus</i> woodland under elevated CO ₂ . <i>Journal of Ecology</i> , 2019, 107, 2532-2540.	4.0	12
50	Biocrusts buffer against the accumulation of soil metallic nutrients induced by warming and rainfall reduction. <i>Communications Biology</i> , 2020, 3, 325.	4.4	12
51	The Effects of Atmospheric Nitrogen Deposition on Terrestrial and Freshwater Biodiversity. , 2014, , 465-480.		10
52	European Semiarid Mediterranean Ecosystems are Sensitive to Nitrogen Deposition: Impacts on Plant Communities and Root Phosphatase Activity. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	2.4	10
53	Seasonal effects of altered precipitation regimes on ecosystem-level CO ₂ fluxes and their drivers in a grassland from Eastern Australia. <i>Plant and Soil</i> , 2021, 460, 435-451.	3.7	9
54	Different mycorrhizal fungal strains determine plant community response to nitrogen and water availability. <i>Journal of Plant Nutrition and Soil Science</i> , 2015, 178, 146-154.	1.9	8

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55	Alleviating Nitrogen Limitation in Mediterranean Maquis Vegetation Leads to Ecological Degradation. <i>Land Degradation and Development</i> , 2017, 28, 2482-2492.	3.9	8
56	Long-term simulated nitrogen deposition alters the plant cover dynamics of a Mediterranean rosemary shrubland in Central Spain through defoliation. <i>Environmental Science and Pollution Research</i> , 2017, 24, 26227-26237.	5.3	8
57	Moving towards the ecological intensification of tree plantations. <i>Trends in Plant Science</i> , 2022, 27, 637-645.	8.8	8
58	Nitrogen deposition reduces the cover of biocrust-forming lichens and soil pigment content in a semiarid Mediterranean shrubland. <i>Environmental Science and Pollution Research</i> , 2017, 24, 26172-26184.	5.3	7
59	Effects of Nitrogen Deposition on the Abundance and Metabolism of Lichens: A Meta-analysis. <i>Ecosystems</i> , 2020, 23, 783-797.	3.4	7
60	Water availability drives fine root dynamics in a <i>Eucalyptus</i> woodland under elevated atmospheric CO ₂ concentration. <i>Functional Ecology</i> , 2020, 34, 2389-2402.	3.6	7
61	Nonlinear decoupling of autotrophic and heterotrophic soil respiration in response to drought duration and N addition in a meadow steppe. <i>Biology and Fertility of Soils</i> , 2021, 57, 281-291.	4.3	7
62	Nitrogen Deposition Effects on Soil Properties, Microbial Abundance, and Litter Decomposition Across Three Shrublands Ecosystems From the Mediterranean Basin. <i>Frontiers in Environmental Science</i> , 2021, 9, .	3.3	7
63	Eco-physiological response of <i>Hypnum cupressiforme</i> Hedw. to increased atmospheric ammonia concentrations in a forest agrosystem. <i>Science of the Total Environment</i> , 2018, 619-620, 883-895.	8.0	5
64	Spatial distribution of fine root biomass in a remnant <i>Eucalyptus tereticornis</i> woodland in Eastern Australia. <i>Plant Ecology</i> , 2020, 221, 55-62.	1.6	5
65	Different drivers of soil C accumulation in aggregates in response to altered precipitation in a semiarid grassland. <i>Science of the Total Environment</i> , 2022, 830, 154760.	8.0	5
66	Pigment Ratios of the Mediterranean Bryophyte <i>Pleurochaete squarrosa</i> Respond to Simulated Nitrogen Deposition. , 2014, , 207-216.		4
67	Consecuencias de la deposición de nitrógeno sobre la biodiversidad y el funcionamiento de los ecosistemas terrestres: Una aproximación general desde la ecología de ecosistemas. <i>Ecosistemas</i> , 2017, 26, 25-36.	0.4	4
68	Long-term recovery of above- and below-ground interactions in restored grasslands after topsoil removal and seed addition. <i>Journal of Applied Ecology</i> , 2022, 59, 2299-2308.	4.0	4
69	(E)merging directions on air pollution and climate change research in Mediterranean Basin ecosystems. <i>Environmental Science and Pollution Research</i> , 2017, 24, 26155-26159.	5.3	3
70	No CO ₂ fertilization effect on plant growth despite enhanced rhizosphere enzyme activity in a low phosphorus soil. <i>Plant and Soil</i> , 2022, 471, 359-374.	3.7	3
71	Comparison of trends in habitat and resource selection by the Spanish Festoon, <i>Zerynthia rumina</i> , and the whole butterfly community in a semiarid Mediterranean ecosystem. <i>Journal of Insect Science</i> , 2014, 14, 51.	1.5	2
72	Spatial homogenization of understorey plant communities under eCO ₂ in a mature <i>Eucalyptus</i> woodland. <i>Journal of Ecology</i> , 2021, 109, 1386-1395.	4.0	2

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73	Understorey plant community assemblage of Australian <i>Eucalyptus</i> woodlands under elevated CO ₂ is modulated by water and phosphorus availability. <i>Journal of Plant Ecology</i> , 2021, 14, 478-490.	2.3	2
74	El ciclo del nitrógeno y el hombre: De lo esencial a lo excesivo. <i>Ecosistemas</i> , 2017, 26, 1-3.	0.4	1
75	Comparison of Trends in Habitat and Resource Selection by the Spanish Festoon, <i>Zerynthia rumina</i> , and the Whole Butterfly Community in a Semi-Arid Mediterranean Ecosystem. <i>Journal of Insect Science</i> , 2014, 14, 1-14.	1.5	0
76	Altered precipitation and root herbivory affect the productivity and composition of a mesic grassland. <i>Bmc Ecology and Evolution</i> , 2021, 21, 145.	1.6	0