

Oswaldo E Sala

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7249141/osvaldo-e-sala-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

112
papers

14,301
citations

54
h-index

119
g-index

124
ext. papers

16,180
ext. citations

7.7
avg, IF

6.38
L-index

#	Paper	IF	Citations
112	Woody-plant encroachment: Precipitation, herbivory and grass-competition interact to affect shrub recruitment.. <i>Ecological Applications</i> , 2022 , e2536	4.9	1
111	Ecological maturity and stability of nematode communities in response to precipitation manipulations in grasslands. <i>Applied Soil Ecology</i> , 2022 , 170, 104263	5	0
110	Connectivity: insights from the U.S. Long Term Ecological Research Network. <i>Ecosphere</i> , 2021 , 12, e03433.1	3.1	1
109	Why Coordinated Distributed Experiments Should Go Global. <i>BioScience</i> , 2021 , 71, 918-927	5.7	3
108	Plant Species Richness in Multiyear Wet and Dry Periods in the Chihuahuan Desert. <i>Climate</i> , 2021 , 9, 1303.1	3.1	0
107	Woody Plant Encroachment has a Larger Impact than Climate Change on Dryland Water Budgets. <i>Scientific Reports</i> , 2020 , 10, 8112	4.9	9
106	Body size structure of soil fauna along geographic and temporal gradients of precipitation in grasslands. <i>Soil Biology and Biochemistry</i> , 2020 , 140, 107638	7.5	10
105	Traversing the Wasteland: A Framework for Assessing Ecological Threats to Drylands. <i>BioScience</i> , 2020 , 70, 35-47	5.7	27
104	Sensitivity of primary production to precipitation across the United States. <i>Ecology Letters</i> , 2020 , 23, 527-536	10	45
103	Ecto- and endoparasitic nematodes respond differently across sites to changes in precipitation. <i>Oecologia</i> , 2020 , 193, 761-771	2.9	8
102	Root herbivory controls the effects of water availability on the partitioning between above- and below-ground grass biomass. <i>Functional Ecology</i> , 2020 , 34, 2403-2410	5.6	7
101	Global patterns and climatic controls of belowground net carbon fixation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 20038-20043	11.5	28
100	A Concept Map of Evolutionary Biology to Promote Meaningful Learning in Biology. <i>American Biology Teacher</i> , 2019 , 81, 79-87	0.3	6
99	Drought suppresses soil predators and promotes root herbivores in mesic, but not in xeric grasslands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 12883-12888	11.5	28
98	Changes in belowground biodiversity during ecosystem development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 6891-6896	11.5	78
97	Global change effects on plant communities are magnified by time and the number of global change factors imposed. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 17867-17873	11.5	69
96	The sustainability publication gap and its implications. <i>Current Opinion in Environmental Sustainability</i> , 2019 , 39, 39-43	7.2	1

95	Foundations and Frontiers of Ecosystem Science: Legacy of a Classic Paper (Odum 1969). <i>Ecosystems</i> , 2019 , 22, 1160-1172	3.9	4
94	Effect of interannual precipitation variability on dryland productivity: A global synthesis. <i>Global Change Biology</i> , 2019 , 25, 269-276	11.4	57
93	Regional grassland productivity responses to precipitation during multiyear above- and below-average rainfall periods. <i>Global Change Biology</i> , 2018 , 24, 1935-1951	11.4	51
92	Groundwater recharge in desert playas: current rates and future effects of climate change. <i>Environmental Research Letters</i> , 2018 , 13, 014025	6.2	18
91	Playa-Wetlands Effects on Dryland Biogeochemistry: Space and Time Interactions. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 1879-1887	3.7	1
90	An Integrated View of Complex Landscapes: A Big Data-Model Integration Approach to Transdisciplinary Science. <i>BioScience</i> , 2018 , 68, 653-669	5.7	22
89	The Interactive Role of Wind and Water in Functioning of Drylands: What Does the Future Hold?. <i>BioScience</i> , 2018 , 68, 670-677	5.7	23
88	Nematode exclusion and recovery in experimental soil microcosms. <i>Soil Biology and Biochemistry</i> , 2017 , 108, 78-83	7.5	13
87	Asynchrony among local communities stabilises ecosystem function of metacommunities. <i>Ecology Letters</i> , 2017 , 20, 1534-1545	10	72
86	Global-change drivers of ecosystem functioning modulated by natural variability and saturating responses. <i>Global Change Biology</i> , 2017 , 23, 503-511	11.4	17
85	Pushing precipitation to the extremes in distributed experiments: recommendations for simulating wet and dry years. <i>Global Change Biology</i> , 2017 , 23, 1774-1782	11.4	93
84	Rangeland Ecosystem Services: Nature's Supply and Humans' Demand 2017 , 467-489		25
83	How Scientists Can Help End the Land-Use Conflict. <i>BioScience</i> , 2016 , 66, 915-915	5.7	1
82	Few multiyear precipitation-reduction experiments find a shift in the productivity-precipitation relationship. <i>Global Change Biology</i> , 2016 , 22, 2570-81	11.4	84
81	Biophysical controls over concentration and depth distribution of soil organic carbon and nitrogen in desert playas. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 3019-3029	3.7	10
80	Characterizing differences in precipitation regimes of extreme wet and dry years: implications for climate change experiments. <i>Global Change Biology</i> , 2015 , 21, 2624-2633	11.4	169
79	Responses of a desert nematode community to changes in water availability. <i>Ecosphere</i> , 2015 , 6, art44	3.1	37
78	Legacy effects in linked ecological-soil geomorphic systems of drylands. <i>Frontiers in Ecology and the Environment</i> , 2015 , 13, 13-19	5.5	74

77	Beyond desertification: new paradigms for dryland landscapes. <i>Frontiers in Ecology and the Environment</i> , 2015 , 13, 4-12	5.5	50
76	Enhanced precipitation variability effects on water losses and ecosystem functioning: differential response of arid and mesic regions. <i>Climatic Change</i> , 2015 , 131, 213-227	4.5	46
75	Enhanced precipitation variability decreases grass- and increases shrub-productivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 12735-40	11.5	149
74	Enhanced interannual precipitation variability increases plant functional diversity that in turn ameliorates negative impact on productivity. <i>Ecology Letters</i> , 2015 , 18, 1293-300	10	78
73	Rangeland ecosystem services: shifting focus from supply to reconciling supply and demand. <i>Frontiers in Ecology and the Environment</i> , 2015 , 13, 44-51	5.5	90
72	Interactions among resource partitioning, sampling effect, and facilitation on the biodiversity effect: a modeling approach. <i>Oecologia</i> , 2014 , 174, 559-66	2.9	7
71	Differential sensitivities of grassland structural components to changes in precipitation mediate productivity response in a desert ecosystem. <i>Functional Ecology</i> , 2014 , 28, 1292-1298	5.6	40
70	Climate change will increase savannas at the expense of forests and treeless vegetation in tropical and subtropical Americas. <i>Journal of Ecology</i> , 2014 , 102, 1363-1373	6	62
69	Grassland-woodland transitions: determinants and consequences for ecosystem functioning and provisioning of services. <i>Journal of Ecology</i> , 2014 , 102, 1357-1362	6	48
68	Soil animal responses to moisture availability are largely scale, not ecosystem dependent: insight from a cross-site study. <i>Global Change Biology</i> , 2014 , 20, 2631-43	11.4	52
67	Effect of woody-plant encroachment on livestock production in North and South America. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 12948-53	11.5	104
66	Grasses have larger response than shrubs to increased nitrogen availability: A fertilization experiment in the Patagonian steppe. <i>Journal of Arid Environments</i> , 2014 , 102, 17-20	2.5	13
65	Land degradation and climate change: a sin of omission?. <i>Frontiers in Ecology and the Environment</i> , 2013 , 11, 283-283	5.5	16
64	Preference for different inorganic nitrogen forms among plant functional types and species of the Patagonian steppe. <i>Oecologia</i> , 2013 , 173, 1075-81	2.9	32
63	Precipitation legacies in desert grassland primary production occur through previous-year tiller density. <i>Ecology</i> , 2013 , 94, 435-43	4.6	137
62	Water controls on nitrogen transformations and stocks in an arid ecosystem. <i>Ecosphere</i> , 2013 , 4, art11	3.1	53
61	Automated rainfall manipulation system: a reliable and inexpensive tool for ecologists. <i>Ecosphere</i> , 2013 , 4, art18	3.1	35
60	Legacies of precipitation fluctuations on primary production: theory and data synthesis. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012 , 367, 3135-44	5.8	352

59	Managed Relocation: Integrating the Scientific, Regulatory, and Ethical Challenges. <i>BioScience</i> , 2012 , 62, 732-743	5.7	169
58	Response of dominant grass and shrub species to water manipulation: an ecophysiological basis for shrub invasion in a Chihuahuan Desert grassland. <i>Oecologia</i> , 2012 , 169, 373-83	2.9	68
57	Directional climate change and potential reversal of desertification in arid and semiarid ecosystems. <i>Global Change Biology</i> , 2012 , 18, 151-163	11.4	116
56	Effects of plant species traits on ecosystem processes: experiments in the Patagonian steppe. <i>Ecology</i> , 2012 , 93, 227-34	4.6	14
55	Understory bamboo flowering provides a very narrow light window of opportunity for canopy-tree recruitment in a neotropical forest of Misiones, Argentina. <i>Forest Ecology and Management</i> , 2011 , 262, 1360-1369	3.9	47
54	The origins of C4 grasslands: integrating evolutionary and ecosystem science. <i>Science</i> , 2010 , 328, 587-9133.3	33.3	698
53	Now is the Time for Action: Transitions and Tipping Points in Complex Environmental Systems. <i>Environment</i> , 2010 , 52, 38-45	2.8	18
52	Size of Precipitation Pulses Controls Nitrogen Transformation and Losses in an Arid Patagonian Ecosystem. <i>Ecosystems</i> , 2010 , 13, 575-585	3.9	69
51	Sheep Grazing Decreases Organic Carbon and Nitrogen Pools in the Patagonian Steppe: Combination of Direct and Indirect Effects. <i>Ecosystems</i> , 2009 , 12, 686-697	3.9	83
50	Solar UVB and warming affect decomposition and earthworms in a fen ecosystem in Tierra del Fuego, Argentina. <i>Global Change Biology</i> , 2009 , 15, 2493-2502	11.4	16
49	Ecological consequences of a massive flowering event of bamboo (<i>Chusquea culeou</i>) in a temperate forest of Patagonia, Argentina. <i>Journal of Vegetation Science</i> , 2009 , 20, 424-432	3.1	29
48	Multidimensional evaluation of managed relocation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 9721-4	11.5	286
47	Higher effect of plant species diversity on productivity in natural than artificial ecosystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 6087-90	11.5	95
46	Climate Change Impacts on South American Rangelands. <i>Rangelands</i> , 2008 , 30, 34-39	1.1	16
45	Structural heterogeneity and productivity of a tall fescue pasture grazed rotationally by cattle at four stocking densities. <i>Grassland Science</i> , 2008 , 54, 9-16	1.3	8
44	Cascading events in linked ecological and socioeconomic systems. <i>Frontiers in Ecology and the Environment</i> , 2007 , 5, 221-224	5.5	34
43	Vegetation structure constrains primary production response to water availability in the Patagonian steppe. <i>Ecology</i> , 2006 , 87, 952-62	4.6	175
42	Determinants of Biodiversity Change: Ecological Tools for Building Scenarios ¹ . <i>Ecology</i> , 2006 , 87, 1875-1876	1.76	4

41	Bridging historical and ecological approaches in biogeography. <i>Australian Systematic Botany</i> , 2006 , 19, 1	1	31
40	Habitat loss, trophic collapse, and the decline of ecosystem services. <i>Ecology</i> , 2006 , 87, 1915-24	4.6	368
39	Differential Controls of Water Input on Litter Decomposition and Nitrogen Dynamics in the Patagonian Steppe. <i>Ecosystems</i> , 2006 , 9, 128-141	3.9	114
38	Inhibition of Nitrification Alters Carbon Turnover in the Patagonian Steppe. <i>Ecosystems</i> , 2006 , 9, 1257-1265	3.9	35
37	VEGETATION STRUCTURE CONSTRAINS PRIMARY PRODUCTION RESPONSE TO WATER AVAILABILITY IN THE PATAGONIAN STEPPE 2006 , 87, 952		1
36	Direct and indirect effects of solar ultraviolet-B radiation on long-term decomposition. <i>Global Change Biology</i> , 2005 , 11, 051006062331002-???	11.4	10
35	Are Existing Global Scenarios Consistent with Ecological Feedbacks?. <i>Ecosystems</i> , 2005 , 8, 143-152	3.9	33
34	Aggregate measures of ecosystem services: can we take the pulse of nature?. <i>Frontiers in Ecology and the Environment</i> , 2005 , 3, 56-59	5.5	29
33	Functional traits of graminoids in semi-arid steppes: a test of grazing histories. <i>Journal of Applied Ecology</i> , 2004 , 41, 653-663	5.8	128
32	Convergence across biomes to a common rain-use efficiency. <i>Nature</i> , 2004 , 429, 651-4	50.4	786
31	Growth responses to ultraviolet-B radiation of two <i>Carex</i> species dominating an Argentinian fen ecosystem. <i>Basic and Applied Ecology</i> , 2004 , 5, 153-162	3.2	9
30	Hierarchy of responses to resource pulses in arid and semi-arid ecosystems. <i>Oecologia</i> , 2004 , 141, 211-20	2.9	660
29	Reduction of solar UV-B mediates changes in the Sphagnum capitulum microenvironment and the peatland microfungus community. <i>Oecologia</i> , 2004 , 140, 480-90	2.9	32
28	Solar UV-B decreases decomposition in herbaceous plant litter in Tierra del Fuego, Argentina: potential role of an altered decomposer community. <i>Global Change Biology</i> , 2003 , 9, 1465-1474	11.4	89
27	Six years of solar UV-B manipulations affect growth of Sphagnum and vascular plants in a Tierra del Fuego peatland. <i>New Phytologist</i> , 2003 , 160, 379-389	9.8	81
26	Controls on nitrification in a water-limited ecosystem: experimental inhibition of ammonia-oxidising bacteria in the Patagonian steppe. <i>Soil Biology and Biochemistry</i> , 2003 , 35, 1609-1613	7.5	20
25	A rainout shelter design for intercepting different amounts of rainfall. <i>Oecologia</i> , 2002 , 133, 95-101	2.9	255
24	Granivory rates by rodents, insects, and birds at different microsites in the Patagonian steppe. <i>Ecography</i> , 2002 , 25, 417-427	6.5	21

23	Carbon and nitrogen dynamics across a natural precipitation gradient in Patagonia, Argentina. <i>Journal of Vegetation Science</i> , 2002 , 13, 351-360	3.1	119
22	PATTERNS AND CONTROLS OF PRIMARY PRODUCTION IN THE PATAGONIAN STEPPE: A REMOTE SENSING APPROACH*. <i>Ecology</i> , 2002 , 83, 307-319	4.6	179
21	Responses to solar ultraviolet-B radiation in a shrub-dominated natural ecosystem of Tierra del Fuego (southern Argentina). <i>Global Change Biology</i> , 2001 , 7, 467-478	11.4	52
20	Impacts of solar ultraviolet-B radiation on terrestrial ecosystems of Tierra del Fuego (southern Argentina). An overview of recent progress. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2001 , 62, 67-77	6.7	129
19	Inter-annual variation in primary production of a semi-arid grassland related to previous-year production. <i>Journal of Vegetation Science</i> , 2001 , 12, 137-142	3.1	148
18	Ecological forecasts: an emerging imperative. <i>Science</i> , 2001 , 293, 657-60	33.3	634
17	Current Distribution of Ecosystem Functional Types in Temperate South America. <i>Ecosystems</i> , 2001 , 4, 683-698	3.9	115
16	Consequences of changing biodiversity. <i>Nature</i> , 2000 , 405, 234-42	50.4	2638
15	Effects of Global Changes on Above- and Belowground Biodiversity in Terrestrial Ecosystems: Implications for Ecosystem Functioning. <i>BioScience</i> , 2000 , 50, 1089	5.7	130
14	Methods of Estimating Aboveground Net Primary Productivity 2000 , 31-43		74
13	Grassland Precipitation-Use Efficiency Varies Across a Resource Gradient. <i>Ecosystems</i> , 1999 , 2, 64-68	3.9	221
12	Patch structure, dynamics and implications for the functioning of arid ecosystems. <i>Trends in Ecology and Evolution</i> , 1999 , 14, 273-277	10.9	496
11	Ecosystem Consequences of Changing Biodiversity. <i>BioScience</i> , 1998 , 48, 45-52	5.7	276
10	FUNCTIONAL AND STRUCTURAL CONVERGENCE OF TEMPERATE GRASSLAND AND SHRUBLAND ECOSYSTEMS 1998 , 8, 194-206		103
9	SEED DISTRIBUTION CONSTRAINS THE DYNAMICS OF THE PATAGONIAN STEPPE. <i>Ecology</i> , 1997 , 78, 93-100	4.6	127
8	Biotic Control over the Functioning of Ecosystems. <i>Science</i> , 1997 , 277, 500-504	33.3	804
7	Ecosystem responses to changes in plant functional type composition: An example from the Patagonian steppe. <i>Journal of Vegetation Science</i> , 1996 , 7, 381-390	3.1	132
6	Water Losses in the Patagonian Steppe: A Modelling Approach. <i>Ecology</i> , 1995 , 76, 510-520	4.6	89

5	Patch structure and dynamics in a Patagonian arid steppe. <i>Plant Ecology</i> , 1994 , 111, 127-135		90
4	Competition, Facilitation, Seed Distribution and the Origin of Patches in a Patagonian Steppe. <i>Oikos</i> , 1994 , 70, 26	4	163
3	Plant functional types and ecological strategies in Patagonian forbs. <i>Journal of Vegetation Science</i> , 1993 , 4, 839-846	3.1	78
2	Achieving a sustainable biosphere: An international endeavour. <i>Trends in Ecology and Evolution</i> , 1992 , 7, 324-6	10.9	5
1	Effects of grazing on seedling establishment: the role of seed and safe-site availability. <i>Journal of Vegetation Science</i> , 1990 , 1, 353-358	3.1	84