Marcelo Sternberg

List of Publications by Year
in descending order

84	5,635	109137 35	79541 73
papers	citations	h-index	g-index

85	85	85	8415
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Plant trait responses to grazing ? a global synthesis. Global Change Biology, 2007, 13, 313-341.	4.2	815
2	Assessing the Effects of Land-use Change on Plant Traits, Communities and Ecosystem Functioning in Grasslands: A Standardized Methodology and Lessons from an Application to 11 European Sites. Annals of Botany, 2007, 99, 967-985.	1.4	453
3	Worldwide evidence of a unimodal relationship between productivity and plant species richness. Science, 2015, 349, 302-305.	6.0	315
4	Vegetation response to grazing management in a Mediterranean herbaceous community: a functional group approach. Journal of Applied Ecology, 2000, 37, 224-237.	1.9	265
5	Leaf traits capture the effects of land use changes and climate on litter decomposability of grasslands across Europe. Ecology, 2009, 90, 598-611.	1.5	243
6	Coordinated distributed experiments: an emerging tool for testing global hypotheses in ecology and environmental science. Frontiers in Ecology and the Environment, 2013, 11, 147-155.	1.9	237
7	Annual plantâ€“shrub interactions along an aridity gradient. Basic and Applied Ecology, 2006, 7, 268-279.	1.2	211
8	The Origin of Cultivation and Proto-Weeds, Long Before Neolithic Farming. PLoS ONE, 2015, 10, e0131422.	1.1	197
9	Influence of slope aspect on Mediterranean woody formations: Comparison of a semiarid and an arid site in Israel. Ecological Research, 2001, 16, 335-345.	0.7	183
10	Early stage litter decomposition across biomes. Science of the Total Environment, 2018, 628-629, 1369-1394.	3.9	177
11	Quantifying drylands' drought resistance and recovery: the importance of drought intensity, dominant life history and grazing regime. Global Change Biology, 2015, 21, 1258-1270.	4.2	145
12	Plant survival in relation to seed size along environmental gradients: a longâ€term study from semiâ€arid and Mediterranean annual plant communities. Journal of Ecology, 2010, 98, 697-704.	1.9	135
13	Effects of grazing on soil seed bank dynamics: An approach with functional groups. Journal of Vegetation Science, 2003, 14, 375-386.	1.1	123
14	Middle-Eastern plant communities tolerate 9 years of drought in a multi-site climate manipulation experiment. Nature Communications, 2014, 5, 5102.	5.8	117
15	Impact of rainfall manipulations and biotic controls on soil respiration in Mediterranean and desert ecosystems along an aridity gradient. Global Change Biology, 2011, 17, 1108-1118.	4.2	115
16	Few multiyear precipitationâ€“reduction experiments find aÂshift in the productivityâ€“precipitation relationship. Global Change Biology, 2016, 22, 2570-2581.	4.2	105
17	Life history variation in an annual plant under two opposing environmental constraints along an aridity gradient. Ecography, 2006, 29, 66-74.	2.1	104
18	Plant community dynamics in a calcareous grassland under climate change manipulations. Plant Ecology, 1999, 143, 29-37.	0.7	101

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19	Impact of abundance weighting on the response of seed traits to climate and land use. Journal of Ecology, 2008, 96, 355-366.	1.9	92
20	Species richness effects on grassland recovery from drought depend on community productivity in a multisite experiment. Ecology Letters, 2017, 20, 1405-1413.	3.0	82
21	Forest fire effects on soil chemical and physicochemical properties, infiltration, runoff, and erosion in a semiarid Mediterranean region. Geoderma, 2014, 221-222, 131-138.	2.3	81
22	Seed mass and dormancy of annual plant populations and communities decreases with aridity and rainfall predictability. Basic and Applied Ecology, 2011, 12, 674-684.	1.2	70
23	Recovery of plant species composition and ecosystem function after cessation of grazing in a Mediterranean grassland. Plant and Soil, 2010, 329, 365-378.	1.8	67
24	From desert to Mediterranean rangelands: will increasing drought and inter-annual rainfall variability affect herbaceous annual primary productivity?. Climatic Change, 2013, 119, 785-798.	1.7	65
25	Soil Phosphate Stable Oxygen Isotopes across Rainfall and Bedrock Gradients. Environmental Science & Technology, 2012, 46, 2156-2162.	4.6	60
26	A communityâ€level test of the leafâ€heightâ€seed ecology strategy scheme in relation to grazing conditions. Journal of Vegetation Science, 2009, 20, 392-402.	1.1	52
27	Rainfall manipulation experiments as simulated by terrestrial biosphere models: Where do we stand?. Global Change Biology, 2020, 26, 3336-3355.	4.2	50
28	Title is missing!. Plant Ecology, 2001, 157, 173-181.	0.7	49
29	The economic impact of global climate change on Mediterranean rangeland ecosystems: A Space-for-Time approach. Ecological Economics, 2006, 59, 287-295.	2.9	48
30	Using polyacrylamide to mitigate post-fire soil erosion. Geoderma, 2015, 239-240, 107-114.	2.3	46
31	Effects of cattle grazing on herbage quality in a herbaceous Mediterranean rangeland. Grass and Forage Science, 2011, 66, 516-525.	1.2	44
32	Seasonal variability of soil phosphate stable oxygen isotopes in rainfall manipulation experiments. Geochimica Et Cosmochimica Acta, 2011, 75, 4216-4227.	1.6	42
33	Plant diversity partitioning in grazed Mediterranean grassland at multiple spatial and temporal scales. Journal of Applied Ecology, 2011, 48, 1260-1268.	1.9	40
34	Terrestrial gastropods and experimental climate change: A field study in a calcareous grassland. Ecological Research, 2000, 15, 73-81.	0.7	36
35	Testing the limits of resistance: a 19â€year study of Mediterranean grassland response to grazing regimes. Global Change Biology, 2015, 21, 1939-1950.	4.2	36
36	Shifting Impacts of Climate Change. Advances in Ecological Research, 2016, 55, 437-473.	1.4	36

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37	Field experiments underestimate aboveground biomass response to drought. Nature Ecology and Evolution, 2022, 6, 540-545.	3.4	30
38	The aesthetics of water and land: a promising concept for managing scarce water resources under climate change. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 5323-5337.	1.6	29
39	The effect of microhabitats on vegetation and its relationships with seedlings and soil seed bank in a Mediterranean coastal sand dune community. Journal of Arid Environments, 2008, 72, 2040-2053.	1.2	28
40	Effects of cattle grazing timing and intensity on soil seed banks and regeneration strategies in a Mediterranean grassland. Community Ecology, 2008, 9, 97-106.	0.5	28
41	Effects of climate change on soil respiration and carbon processing in Mediterranean and semi-arid regions: An experimental approach. European Journal of Soil Biology, 2012, 52, 48-58.	1.4	26
42	Impacts of climate change on biodiversity in Israel: an expert assessment approach. Regional Environmental Change, 2015, 15, 895-906.	1.4	24
43	Climate change scenarios of herbaceous production along an aridity gradient: vulnerability increases with aridity. Oecologia, 2015, 177, 971-979.	0.9	24
44	What drives plant species diversity? A global distributed test of the unimodal relationship between herbaceous species richness and plant biomass. Journal of Vegetation Science, 2014, 25, 1160-1166.	1.1	23
45	The soil seed bank can buffer longâ€term compositional changes in annual plant communities. Journal of Ecology, 2021, 109, 1275-1283.	1.9	18
46	Species richness in relation to phosphorus and competition in a Mediterranean dwarf-shrub community. Agriculture, Ecosystems and Environment, 2006, 113, 277-283.	2.5	17
47	Effects of extreme drought on primary production, species composition and species diversity of a Mediterranean annual plant community. Journal of Vegetation Science, 2019, 30, 1045-1061.	1.1	17
48	Not a melting pot: Plant species aggregate in their nonâ€native range. Global Ecology and Biogeography, 2020, 29, 482-490.	2.7	16
49	Coordinated approaches for studying long-term ecosystem responses to global change. Oecologia, 2015, 177, 921-924.	0.9	15
50	Neighbour effects on shrub seedling establishment override climate change impacts in a Mediterranean community. Journal of Vegetation Science, 2016, 27, 227-237.	1.1	15
51	Effects of clearing and herbicide treatments on coniferous seedling establishment and growth in newly planted Mediterranean forests. Forest Ecology and Management, 2001, 148, 179-184.	1.4	14
52	Soil seed banks, habitat heterogeneity, and regeneration strategies in a Mediterranean coastal sand dune. Israel Journal of Plant Sciences, 2004, 52, 213-221.	0.3	14
53	Shrub seedling survival under climate change â€“ Comparing natural and experimental rainfall gradients. Journal of Arid Environments, 2014, 111, 14-21.	1.2	14
54	No precipitation legacy effects on aboveâ€ground net primary production and species diversity in grazed Mediterranean grassland: a 21â€year experiment. Journal of Vegetation Science, 2017, 28, 260-269.	1.1	14

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55	Carbon exchange in rainfed wheat fields: Effects of long-term tillage and fertilization under arid conditions. Agriculture, Ecosystems and Environment, 2014, 195, 112-119.	2.5	13
56	Kikuyu Grass: A Valuable Saltâ€Tolerant Fodder Grass. Communications in Soil Science and Plant Analysis, 2006, 37, 1269-1279.	0.6	12
57	Effectiveness of Granular Polyacrylamide to Reduce Soil Erosion During Consecutive Rainstorms in a Calcic Regosol Exposed to Different Fire Conditions. Land Degradation and Development, 2016, 27, 1453-1462.	1.8	12
58	Understanding ecosystems of the future will require more than realistic climate change experiments â€“ A response to Korell et al.. Global Change Biology, 2020, 26, e6-e7.	4.2	12
59	Assessment of plant species distribution and diversity along a climatic gradient from Mediterranean woodlands to semi-arid shrublands. GIScience and Remote Sensing, 2021, 58, 929-953.	2.4	12
60	Effect of timing and intensity of grazing on the herbage quality of a Mediterranean rangeland. Journal of Animal and Feed Sciences, 2007, 16, 318-322.	0.4	12
61	Herbivory by sucking mirid bugs can reduce nectar production in Asphodelus aestivus Brot.. Arthropod-Plant Interactions, 2010, 4, 153-158.	0.5	11
62	The Use and Misuse of Climatic Gradients for Evaluating Climate Impact on Dryland Ecosystems - an Example for the Solution of Conceptual Problems. , 0, , .		11
63	Temporal stability of biomass in annual plant communities is driven by species diversity and asynchrony, but not dominance. Journal of Vegetation Science, 2021, 32, e13012.	1.1	11
64	Divergent responses of plant biomass and its allocation to the altered precipitation regimes among different degraded grasslands in China. Plant and Soil, 2022, 473, 149-166.	1.8	11
65	Effects of grazing on soil seed bank dynamics: An approach with functional groups. , 2003, 14, 375.		11
66	Invasive species and climate change: Conyza canadensis (L.) Cronquist as a tool for assessing the invasibility of natural plant communities along an aridity gradient. Biological Invasions, 2010, 12, 1953-1960.	1.2	10
67	First report of Laurencia chondrioides (Ceramiales, Rhodophyta) and its potential to be an invasive in the eastern Mediterranean Sea. Botanica Marina, 2014, 57, 449-457.	0.6	10
68	Long-term Trade-Offs Among Herbage Growth, Animal Production, and Supplementary Feeding in Heavily Grazed Mediterranean Grassland. Rangeland Ecology and Management, 2015, 68, 332-340.	1.1	10
69	Reproductive traits and seed dynamics at two environmentally contrasting annual plant communities: From fieldwork to theoretical expectations. Israel Journal of Ecology and Evolution, 2011, 57, 73-90.	0.2	9
70	Response to Comment on â€œWorldwide evidence of a unimodal relationship between productivity and plant species richnessâ€• Science, 2015, 350, 1177-1177.	6.0	9
71	From America to the Holy Land: disentangling plant traits of the invasive Heterotheca subaxillaris (Lam.) Britton & Rusby. Plant Ecology, 2016, 217, 1307-1314.	0.7	7
72	Evapotranspiration and Precipitation over Pasture and Soybean Areas in the Xingu River Basin, an Expanding Amazonian Agricultural Frontier. Agronomy, 2020, 10, 1112.	1.3	7

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73	Germination and survival of endangered Pulsatilla grandis (ranunculaceae) after artificial seeding, as affected by various disturbances. Israel Journal of Plant Sciences, 2006, 54, 9-17.	0.3	6
74	Extreme drought alters progeny dispersal unit properties of winter wild oat (Avena sterilis L.). Planta, 2020, 252, 77.	1.6	6
75	Assessing the Dynamics of Plant Species Invasion in Eastern-Mediterranean Coastal Dunes Using Cellular Automata Modeling and Satellite Time-Series Analyses. Remote Sensing, 2022, 14, 1014.	1.8	6
76	Quantitative vs qualitative vegetation sampling methods: a lesson from a grazing experiment in a <scp>M</scp>editerranean grassland. Applied Vegetation Science, 2013, 16, 502-508.	0.9	5
77	Response to Comment on â€œWorldwide evidence of a unimodal relationship between productivity and plant species richnessâ€. Science, 2016, 351, 457-457.	6.0	5
78	Effects of rainfall manipulations versus a natural aridity gradient on plant litter arthropods in desert and Mediterranean ecosystems. Applied Soil Ecology, 2020, 156, 103716.	2.1	5
79	Germination strategies under climate change scenarios along an aridity gradient. Journal of Plant Ecology, 2020, 13, 470-477.	1.2	5
80	First record of Dichotomaria obtusata (Ellis & Solander) Lamarck (Nemaliales, Rhodophyta) in the Mediterranean Sea. Mediterranean Marine Science, 2015, 16, 325.	0.6	2
81	Shrub facilitative effects on the plant litter arthropod community shifts with decreasing precipitation in desertified ecosystems in northwestern China. Journal of Arid Environments, 2022, 200, 104724.	1.2	1
82	Estimation of aboveground biomass production using an unmanned aerial vehicle (UAV) and VENÎ¼S satellite imagery in Mediterranean and semiarid rangelands. Remote Sensing Applications: Society and Environment, 2022, 26, 100753.	0.8	1
83	Editorial: From state-transition models to ecosystem servicesâ€”A compendium in honor of Imanuel Noy-Meirâ€™s legacy. Israel Journal of Ecology and Evolution, 2011, 57, 1-4.	0.2	0
84	The changing Mediterranean landscape: An editorial view. Israel Journal of Plant Sciences, 2005, 53, 149-150.	0.3	0