Jordi Sardans

List of Publications by Year in descending order

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303 papers	21,797 citations	12330 69 h-index	11939 134 g-index
309 all docs	309 docs citations	309 times ranked	22205 citing authors

#	Article	IF	Citations
1	TRY â€“ a global database of plant traits. Global Change Biology, 2011, 17, 2905-2935.	9.5	2,002
2	TRY plant trait database â€“ enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	9.5	1,038
3	Human-induced nitrogenâ€“phosphorus imbalances alter natural and managed ecosystems across the globe. Nature Communications, 2013, 4, 2934.	12.8	1,013
4	The application of ecological stoichiometry to plantâ€“microbialâ€“soil organic matter transformations. Ecological Monographs, 2015, 85, 133-155.	5.4	735
5	The C:N:P stoichiometry of organisms and ecosystems in a changing world: A review and perspectives. Perspectives in Plant Ecology, Evolution and Systematics, 2012, 14, 33-47.	2.7	509
6	The humanâ€induced imbalance between C, N and P in Earth's life system. Global Change Biology, 2012, 18, 3-6.	9.5	458
7	Drought decreases soil enzyme activity in a Mediterranean Quercus ilex L. forest. Soil Biology and Biochemistry, 2005, 37, 455-461.	8.8	414
8	Global traitâ€“environment relationships of plant communities. Nature Ecology and Evolution, 2018, 2, 1906-1917.	7.8	397
9	Nutrient availability as the key regulator of global forest carbon balance. Nature Climate Change, 2014, 4, 471-476.	18.8	383
10	Potassium: a neglected nutrient in global change. Global Ecology and Biogeography, 2015, 24, 261-275.	5.8	354
11	Drought-resistant fungi control soil organic matter decomposition and its response to temperature. Global Change Biology, 2011, 17, 1475-1486.	9.5	335
12	Recent global decline of CO ₂ fertilization effects on vegetation photosynthesis. Science, 2020, 370, 1295-1300.	12.6	317
13	Evidence of current impact of climate change on life: a walk from genes to the biosphere. Global Change Biology, 2013, 19, 2303-2338.	9.5	316
14	The elemental stoichiometry of aquatic and terrestrial ecosystems and its relationships with organismic lifestyle and ecosystem structure and function: a review and perspectives. Biogeochemistry, 2012, 111, 1-39.	3.5	303
15	Changes in soil enzymes related to C and N cycle and in soil C and N content under prolonged warming and drought in a Mediterranean shrubland. Applied Soil Ecology, 2008, 39, 223-235.	4.3	298
16	Global patterns of phosphatase activity in natural soils. Scientific Reports, 2017, 7, 1337.	3.3	296
17	The Role of Plants in the Effects of Global Change on Nutrient Availability and Stoichiometry in the Plant-Soil System Â. Plant Physiology, 2012, 160, 1741-1761.	4.8	279
18	Root exudate metabolomes change under drought and show limited capacity for recovery. Scientific Reports, 2018, 8, 12696.	3.3	231

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19	Strong relationship between elemental stoichiometry and metabolome in plants. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4181-4186.	7.1	221
20	Plant-soil interactions in Mediterranean forest and shrublands: impacts of climatic change. Plant and Soil, 2013, 365, 1-33.	3.7	213
21	A systematic global stocktake of evidence on human adaptation to climate change. Nature Climate Change, 2021, 11, 989-1000.	18.8	206
22	Ecological metabolomics: overview of current developments and future challenges. Chemoecology, 2011, 21, 191-225.	1.1	204
23	QMEC: a tool for high-throughput quantitative assessment of microbial functional potential in C, N, P, and S biogeochemical cycling. Science China Life Sciences, 2018, 61, 1451-1462.	4.9	181
24	Warming and drought alter soil phosphatase activity and soil P availability in a Mediterranean shrubland. Plant and Soil, 2006, 289, 227-238.	3.7	180
25	Changes in nutrient concentrations of leaves and roots in response to global change factors. Global Change Biology, 2017, 23, 3849-3856.	9.5	174
26	Opposite metabolic responses of shoots and roots to drought. Scientific Reports, 2014, 4, 6829.	3.3	170
27	Shifting from a fertilization-dominated to a warming-dominated period. Nature Ecology and Evolution, 2017, 1, 1438-1445.	7.8	167
28	Global trends in carbon sinks and their relationships with CO2 and temperature. Nature Climate Change, 2019, 9, 73-79.	18.8	163
29	Warming and drought alter C and N concentration, allocation and accumulation in a Mediterranean shrubland. Global Change Biology, 2008, 14, 2304-2316.	9.5	158
30	Global forest carbon uptake due to nitrogen and phosphorus deposition from 1850 to 2100. Global Change Biology, 2017, 23, 4854-4872.	9.5	158
31	Faster returns on â€˜leaf economicsâ€™ and different biogeochemical niche in invasive compared with native plant species. Global Change Biology, 2010, 16, 2171-2185.	9.5	157
32	Drought changes phosphorus and potassium accumulation patterns in an evergreen Mediterranean forest. Functional Ecology, 2007, 21, 191-201.	3.6	150
33	Plant invasion is associated with higher plantâ€“soil nutrient concentrations in nutrientâ€poor environments. Global Change Biology, 2017, 23, 1282-1291.	9.5	147
34	Improvement in municipal wastewater treatment alters lake nitrogen to phosphorus ratios in populated regions. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11566-11572.	7.1	141
35	Afforestation neutralizes soil pH. Nature Communications, 2018, 9, 520.	12.8	140
36	The bioelements, the elementome, and the biogeochemical niche. Ecology, 2019, 100, e02652.	3.2	139

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37	Anthropogenic global shifts in biospheric N and P concentrations and ratios and their impacts on biodiversity, ecosystem productivity, food security, and human health. Global Change Biology, 2020, 26, 1962-1985.	9.5	138
38	Determination of As, Cd, Cu, Hg and Pb in biological samples by modern electrothermal atomic absorption spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2010, 65, 97-112.	2.9	136
39	Responses of forest ecosystems in Europe to decreasing nitrogen deposition. Environmental Pollution, 2019, 244, 980-994.	7.5	132
40	Phosphorus accumulates faster than nitrogen globally in freshwater ecosystems under anthropogenic impacts. Ecology Letters, 2016, 19, 1237-1246.	6.4	129
41	Increasing drought decreases phosphorus availability in an evergreen Mediterranean forest. Plant and Soil, 2004, 267, 367-377.	3.7	127
42	A representation of the phosphorus cycle for ORCHIDEE (revisionÂ4520). Geoscientific Model Development, 2017, 10, 3745-3770.	3.6	122
43	Strong functional stability of soil microbial communities under semiarid Mediterranean conditions and subjected to long-term shifts in baseline precipitation. Soil Biology and Biochemistry, 2014, 69, 223-233.	8.8	121
44	Factors affecting nutrient concentration and stoichiometry of forest trees in Catalonia (NE Spain). Forest Ecology and Management, 2011, 262, 2024-2034.	3.2	118
45	Potassium Control of Plant Functions: Ecological and Agricultural Implications. Plants, 2021, 10, 419.	3.5	116
46	Responses of soil nutrient concentrations and stoichiometry to different human land uses in a subtropical tidal wetland. Geoderma, 2014, 232-234, 459-470.	5.1	114
47	Reassessing global change research priorities in mediterranean terrestrial ecosystems: how far have we come and where do we go from here?. Global Ecology and Biogeography, 2015, 24, 25-43.	5.8	111
48	Warming differentially influences the effects of drought on stoichiometry and metabolomics in shoots and roots. New Phytologist, 2015, 207, 591-603.	7.3	109
49	Global and regional phosphorus budgets in agricultural systems and their implications for phosphorus-use efficiency. Earth System Science Data, 2018, 10, 1-18.	9.9	106
50	Drought, warming and soil fertilization effects on leaf volatile terpene concentrations in Pinus halepensis and Quercus ilex. Acta Physiologiae Plantarum, 2009, 31, 207-218.	2.1	105
51	Tree growth changes with climate and forest type are associated with relative allocation of nutrients, especially phosphorus, to leaves and wood. Global Ecology and Biogeography, 2013, 22, 494-507.	5.8	105
52	Plant competition in mediterraneanâ€type vegetation. Journal of Vegetation Science, 1999, 10, 281-294.	2.2	102
53	Foliar elemental composition of <scp>E</scp>uropean forest tree species associated with evolutionary traits and present environmental and competitive conditions. Global Ecology and Biogeography, 2015, 24, 240-255.	5.8	100
54	Foliar and soil concentrations and stoichiometry of nitrogen and phosphorous across <scp>E</scp>uropean <scp>P</scp>inus sylvestris forests: relationships with climate, <scp>N</scp> deposition and tree growth. Functional Ecology, 2016, 30, 676-689.	3.6	99

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55	Impacts of Global Change on Mediterranean Forests and Their Services. Forests, 2017, 8, 463.	2.1	98
56	Urgent need for a common metric to make precipitation manipulation experiments comparable. New Phytologist, 2012, 195, 518-522.	7.3	97
57	Assessment of the impacts of climate change on Mediterranean terrestrial ecosystems based on data from field experiments and long-term monitored field gradients in Catalonia. Environmental and Experimental Botany, 2018, 152, 49-59.	4.2	96
58	The global nitrogen-phosphorus imbalance. Science, 2022, 375, 266-267.	12.6	95
59	Phosphorus limitation and competitive capacities of Pinus halepensis and Quercus ilex subsp. rotundifolia on different soils. Plant Ecology, 2004, 174, 307-319.	1.6	89
60	Drought and warming induced changes in P and K concentration and accumulation in plant biomass and soil in a Mediterranean shrubland. Plant and Soil, 2008, 306, 261-271.	3.7	87
61	Longâ€term nitrogen deposition linked to reduced water use efficiency in forests with low phosphorus availability. New Phytologist, 2016, 210, 431-442.	7.3	85
62	Connecting the Green and Brown Worlds. Advances in Ecological Research, 2013, 49, 69-175.	2.7	84
63	Phosphorus addition decreases microbial residual contribution to soil organic carbon pool in a tropical coastal forest. Global Change Biology, 2021, 27, 454-466.	9.5	84
64	Drought enhances folivory by shifting foliar metabolomes in <scp>Q</scp>uercus ilex trees. New Phytologist, 2014, 202, 874-885.	7.3	81
65	Experimental and observational studies find contrasting responses of soil nutrients to climate change. ELife, 2017, 6, .	6.0	79
66	Trace element accumulation in the moss Hypnum cupressiforme Hedw. and the trees Quercus ilex L. and Pinus halepensis Mill. in Catalonia. Chemosphere, 2005, 60, 1293-1307.	8.2	78
67	Plasticity of leaf morphological traits, leaf nutrient content, and water capture in the Mediterranean evergreen oakQuercus ilexsubsp.ballotain response to fertilization and changes in competitive conditions. Ecoscience, 2006, 13, 258-270.	1.4	77
68	Experimental drought reduced acid and alkaline phosphatase activity and increased organic extractable P in soil in a Quercus ilex Mediterranean forest. European Journal of Soil Biology, 2008, 44, 509-520.	3.2	76
69	Nutrient-cycling mechanisms other than the direct absorption from soil may control forest structure and dynamics in poor Amazonian soils. Scientific Reports, 2017, 7, 45017.	3.3	76
70	Effects of steel slag application on greenhouse gas emissions and crop yield over multiple growing seasons in a subtropical paddy field in China. Field Crops Research, 2015, 171, 146-156.	5.1	74
71	Soil properties explain tree growth and mortality, but not biomass, across phosphorus-depleted tropical forests. Scientific Reports, 2020, 10, 2302.	3.3	74
72	Removal of floral microbiota reduces floral terpene emissions. Scientific Reports, 2014, 4, 6727.	3.3	73

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73	Droughtâ€™s impact on Ca, Fe, Mg, Mo and S concentration and accumulation patterns in the plants and soil of a Mediterranean evergreen Quercus ilex forest. Biogeochemistry, 2008, 87, 49-69.	3.5	72
74	The response of stocks of C, N, and P to plant invasion in the coastal wetlands of China. Global Change Biology, 2019, 25, 733-743.	9.5	72
75	Higher plasticity in ecophysiological traits enhances the performance and invasion success of Taraxacum officinale (dandelion) in alpine environments. Biological Invasions, 2012, 14, 21-33.	2.4	71
76	Rice paddy soils are a quantitatively important carbon store according to a global synthesis. Communications Earth & Environment, 2021, 2, .	6.8	71
77	Stoichiometry of potassium is largely determined by water availability and growth in <scp>C</scp>atalonian forests. Functional Ecology, 2012, 26, 1077-1089.	3.6	68
78	The handbook for standardized field and laboratory measurements in terrestrial climate change experiments and observational studies (ClimEx). Methods in Ecology and Evolution, 2020, 11, 22-37.	5.2	68
79	Elementary factors. Nature, 2009, 460, 803-804.	27.8	65
80	Soil Enzyme Activity in a Mediterranean Forest after Six Years of Drought. Soil Science Society of America Journal, 2010, 74, 838-851.	2.2	64
81	Spatial variability and controls over biomass stocks, carbon fluxes, and resource-use efficiencies across forest ecosystems. Trees - Structure and Function, 2014, 28, 597-611.	1.9	62
82	Atmospheric deposition, CO2, and change in the land carbon sink. Scientific Reports, 2017, 7, 9632.	3.3	62
83	Ecological stoichiometry of C, N, and P of invasive Phragmites australis and native Cyperus malaccensis species in the Minjiang River tidal estuarine wetlands of China. Plant Ecology, 2015, 216, 809-822.	1.6	61
84	Effects of a nutrient pulse supply on nutrient status of the Mediterranean trees Quercus ilex subsp. ballota and Pinus halepensis on different soils and under different competitive pressure. Trees - Structure and Function, 2006, 20, 619-632.	1.9	59
85	Hydraulic redistribution by plants and nutrient stoichiometry: Shifts under global change. Ecohydrology, 2014, 7, 1-20.	2.4	59
86	The effect of global change on soil phosphatase activity. Global Change Biology, 2021, 27, 5989-6003.	9.5	59
87	Increasing atmospheric CO2 concentrations correlate with declining nutritional status of European forests. Communications Biology, 2020, 3, 125.	4.4	58
88	Global biodiversity, stoichiometry and ecosystem function responses to human-induced Câ€“Nâ€“P imbalances. Journal of Plant Physiology, 2015, 172, 82-91.	3.5	57
89	Factors Related with CH4 and N2O Emissions from a Paddy Field: Clues for Management implications. PLoS ONE, 2017, 12, e0169254.	2.5	57
90	Effects of seasonal and decadal warming on soil enzymatic activity in a Pâ€deficient Mediterranean shrubland. Global Change Biology, 2020, 26, 3698-3714.	9.5	57

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91	Recent advances and future research in ecological stoichiometry. Perspectives in Plant Ecology, Evolution and Systematics, 2021, 50, 125611.	2.7	57
92	Ecological metabolomics. Chemistry and Ecology, 2009, 25, 305-309.	1.6	56
93	Factors influencing the foliar elemental composition and stoichiometry in forest trees in Spain. Perspectives in Plant Ecology, Evolution and Systematics, 2016, 18, 52-69.	2.7	55
94	Carbon limitation overrides acidification in mediating soil microbial activity to nitrogen enrichment in a temperate grassland. Global Change Biology, 2021, 27, 5976-5988.	9.5	55
95	Climate and taxonomy underlie different elemental concentrations and stoichiometries of forest species: the optimum â€œbiogeochemical nicheâ€• Plant Ecology, 2014, 215, 441-455.	1.6	54
96	Nutrient scarcity as a selective pressure for mast seeding. Nature Plants, 2019, 5, 1222-1228.	9.3	53
97	Pervasive decreases in living vegetation carbon turnover time across forest climate zones. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24662-24667.	7.1	52
98	Shifts in the elemental composition of plants during a very severe drought. Environmental and Experimental Botany, 2015, 111, 63-73.	4.2	50
99	Distinct Morphological, Physiological, and Biochemical Responses to Light Quality in Barley Leaves and Roots. Frontiers in Plant Science, 2019, 10, 1026.	3.6	50
100	Whole soil acidification and base cation reduction across subtropical China. Geoderma, 2020, 361, 114107.	5.1	50
101	Empirical support for the biogeochemical niche hypothesis in forest trees. Nature Ecology and Evolution, 2021, 5, 184-194.	7.8	50
102	Changes in nutrient use efficiency, status and retranslocation in young post-fire regeneration Pinus halepensis in response to sudden N and P input, irrigation and removal of competing vegetation. Trees - Structure and Function, 2005, 19, 233-250.	1.9	49
103	Global Change and Forest Disturbances in the Mediterranean Basin: Breakthroughs, Knowledge Gaps, and Recommendations. Forests, 2021, 12, 603.	2.1	49
104	Foliar C, N, and P stoichiometry characterize successful plant ecological strategies in the Sonoran Desert. Plant Ecology, 2018, 219, 775-788.	1.6	47
105	Ecometabolomics: optimized <scp>NMR</scp>â€based method. Methods in Ecology and Evolution, 2013, 4, 464-473.	5.2	46
106	Trees increase their <scp>P</scp>:<scp>N</scp> ratio with size. Global Ecology and Biogeography, 2015, 24, 147-156.	5.8	46
107	Stoichiometry patterns of plant organ N and P in coastal herbaceous wetlands along the East China Sea: implications for biogeochemical niche. Plant and Soil, 2018, 431, 273-288.	3.7	46
108	Recent leveling off of vegetation greenness and primary production reveals the increasing soil water limitations on the greening Earth. Science Bulletin, 2021, 66, 1462-1471.	9.0	46

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109	Effects of water and a nutrient pulse supply on Rosmarinus officinalis growth, nutrient content and flowering in the field. Environmental and Experimental Botany, 2005, 53, 1-11.	4.2	44
110	Metabolic responses of <scp>Q</scp>uercus ilex seedlings to wounding analysed with nuclear magnetic resonance profiling. Plant Biology, 2014, 16, 395-403.	3.8	44
111	Flood regime affects soil stoichiometry and the distribution of the invasive plants in subtropical estuarine wetlands in China. Catena, 2015, 128, 144-154.	5.0	43
112	Rice straw incorporation affects global warming potential differently in early vs. late cropping seasons in Southeastern China. Field Crops Research, 2015, 181, 42-51.	5.1	43
113	Plant community composition affects the species biogeochemical niche. Ecosphere, 2017, 8, e01801.	2.2	42
114	Functional Traits 2.0: The power of the metabolome for ecology. Journal of Ecology, 2022, 110, 4-20.	4.0	42
115	Seasonal patterns of root-surface phosphatase activities in a Mediterranean shrubland. Responses to experimental warming and drought. Biology and Fertility of Soils, 2007, 43, 779-786.	4.3	41
116	Carbon and nitrogen allocation shifts in plants and soils along aridity and fertility gradients in grasslands of China. Ecology and Evolution, 2017, 7, 6927-6934.	1.9	41
117	Higher Allocation to Low Cost Chemical Defenses in Invasive Species of Hawaii. Journal of Chemical Ecology, 2010, 36, 1255-1270.	1.8	40
118	Measurement of volatile terpene emissions in 70 dominant vascular plant species in Hawaii: aliens emit more than natives. Global Ecology and Biogeography, 2010, 19, 863-874.	5.8	40
119	Shifts in plant foliar and floral metabolomes in response to the suppression of the associated microbiota. BMC Plant Biology, 2016, 16, 78.	3.6	40
120	Ecometabolomics for a Better Understanding of Plant Responses and Acclimation to Abiotic Factors Linked to Global Change. Metabolites, 2020, 10, 239.	2.9	39
121	Dynamics of phosphorus speciation and the phoD phosphatase gene community in the rhizosphere and bulk soil along an estuarine freshwater-oligohaline gradient. Geoderma, 2020, 365, 114236.	5.1	39
122	Warming and drought change trace element bioaccumulation patterns in a Mediterranean shrubland. Chemosphere, 2008, 70, 874-885.	8.2	37
123	Electrothermal Atomic Absorption Spectrometry to Determine As, Cd, Cr, Cu, Hg, and Pb in Soils and Sediments: A Review and Perspectives. Soil and Sediment Contamination, 2011, 20, 447-491.	1.9	37
124	Relationships between the potential production of the greenhouse gases CO2, CH4 and N2O and soil concentrations of C, N and P across 26 paddy fields in southeastern China. Atmospheric Environment, 2017, 164, 458-467.	4.1	37
125	Towards comparable assessment of the soil nutrient status across scalesâ€"Review and development of nutrient metrics. Global Change Biology, 2020, 26, 392-409.	9.5	37
126	Drought changes the dynamics of trace element accumulation in a Mediterranean Quercus ilex forest. Environmental Pollution, 2007, 147, 567-583.	7.5	36

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127	Drought changes nutrient sources, content and stoichiometry in the bryophyteHypnum cupressiformeHedw. growing in a Mediterranean forest. Journal of Bryology, 2008, 30, 59-65.	1.2	36
128	Using research networks to create the comprehensive datasets needed to assess nutrient availability as a key determinant of terrestrial carbon cycling. Environmental Research Letters, 2018, 13, 125006.	5.2	36
129	Winter warming is ecologically more relevant than summer warming in a cool-temperate grassland. Scientific Reports, 2019, 9, 14632.	3.3	36
130	Effects of nitrogen-enriched biochar on rice growth and yield, iron dynamics, and soil carbon storage and emissions: A tool to improve sustainable rice cultivation. Environmental Pollution, 2021, 287, 117565.	7.5	36
131	Changes in Ca, Fe, Mg, Mo, Na, and S content in a Mediterranean shrubland under warming and drought. Journal of Geophysical Research, 2008, 113, .	3.3	35
132	Morphological, biochemical and physiological traits of upper and lower canopy leaves of European beech tend to converge with increasing altitude. Tree Physiology, 2015, 35, 47-60.	3.1	35
133	Agricultural land use decouples soil nutrient cycles in a subtropical riparian wetland in China. Catena, 2015, 133, 171-178.	5.0	35
134	Effects of extreme drought on plant nutrient uptake and resorption in rhizomatous vs bunchgrass-dominated grasslands. Oecologia, 2018, 188, 633-643.	2.0	35
135	Atmospheric deposition of elements and its relevance for nutrient budgets of tropical forests. Biogeochemistry, 2020, 149, 175-193.	3.5	35
136	Nitrogen enrichment buffers phosphorus limitation by mobilizing mineralâ€bound soil phosphorus in grasslands. Ecology, 2022, 103, e3616.	3.2	35
137	Imbalance of global nutrient cycles exacerbated by the greater retention of phosphorus over nitrogen in lakes. Nature Geoscience, 2022, 15, 464-468.	12.9	35
138	Field-simulated droughts affect elemental leaf stoichiometry in Mediterranean forests and shrublands. Acta Oecologica, 2013, 50, 20-31.	1.1	34
139	Patterns and environmental drivers of greenhouse gas fluxes in the coastal wetlands of China: A systematic review and synthesis. Environmental Research, 2020, 186, 109576.	7.5	34
140	A systemic overreaction to years versus decades of warming in a subarctic grassland ecosystem. Nature Ecology and Evolution, 2020, 4, 101-108.	7.8	33
141	The shift of phosphorus transfers in global fisheries and aquaculture. Nature Communications, 2020, 11, 355.	12.8	33
142	GOLUM-CNP v1.0: a data-driven modeling of carbon, nitrogen and phosphorus cycles in major terrestrial biomes. Geoscientific Model Development, 2018, 11, 3903-3928.	3.6	32
143	Is the climate change mitigation effect of enhanced silicate weathering governed by biological processes?. Global Change Biology, 2022, 28, 711-726.	9.5	32
144	Lonicera Implexa Leaves Bearing Naturally Laid Eggs of the Specialist Herbivore Euphydryas Aurinia have Dramatically Greater Concentrations of Iridoid Glycosides than other Leaves. Journal of Chemical Ecology, 2006, 32, 1925-1933.	1.8	30

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145	Exploring continentalâ€scale stand health â€“ <scp>N</scp>Â:Â<scp>P</scp> ratio relationships for <scp>E</scp>uropean forests. New Phytologist, 2014, 202, 422-430.	7.3	30
146	Topsoil depth substantially influences the responses to drought of the foliar metabolomes of Mediterranean forests. Perspectives in Plant Ecology, Evolution and Systematics, 2016, 21, 41-54.	2.7	30
147	Thresholds in decoupled soil-plant elements under changing climatic conditions. Plant and Soil, 2016, 409, 159-173.	3.7	30
148	Steel slag and biochar amendments decreased CO2 emissions by altering soil chemical properties and bacterial community structure over two-year in a subtropical paddy field. Science of the Total Environment, 2020, 740, 140403.	8.0	30
149	Bryophyte C:N:P stoichiometry, biogeochemical niches and elementome plasticity driven by environment and coexistence. Ecology Letters, 2021, 24, 1375-1386.	6.4	28
150	Plant invasive success associated with higher N-use efficiency and stoichiometric shifts in the soilâ€“plant system in the Minjiang River tidal estuarine wetlands of China. Wetlands Ecology and Management, 2015, 23, 865-880.	1.5	27
151	Large Spatial Variations in Diffusive CH₄ Fluxes from a Subtropical Coastal Reservoir Affected by Sewage Discharge in Southeast China. Environmental Science & Technology, 2020, 54, 14192-14203.	10.0	26
152	Nitrogen reduction processes in paddy soils across climatic gradients: Key controlling factors and environmental implications. Geoderma, 2020, 368, 114275.	5.1	26
153	Identifying the origin of atmospheric inputs of trace elements in the Prades Mountains (Catalonia) with bryophytes, lichens, and soil monitoring. Environmental Monitoring and Assessment, 2013, 185, 615-629.	2.7	25
154	Oak protein profile alterations upon root colonization by an ectomycorrhizal fungus. Mycorrhiza, 2017, 27, 109-128.	2.8	25
155	Effect of simulated acid rain on CO2, CH4 and N2O fluxes and rice productivity in a subtropical Chinese paddy field. Environmental Pollution, 2018, 243, 1196-1205.	7.5	25
156	Daily CO2 Emission Reduction Indicates the Control of Activities to Contain COVID-19 in China. Innovation(China), 2020, 1, 100062.	9.1	25
157	Introduction of the Factor of Partitioning in the Lithogenic Enrichment Factors of Trace Element Bioaccumulation in Plant Tissues. Environmental Monitoring and Assessment, 2006, 115, 473-498.	2.7	24
158	Soil enzymes associated with carbon and nitrogen cycling in invaded and native secondary forests of northwestern Argentina. Plant and Soil, 2014, 384, 169-183.	3.7	24
159	Soil Methane Production, Anaerobic and Aerobic Oxidation in Porewater of Wetland Soils of the Minjiang River Estuarine, China. Wetlands, 2018, 38, 627-640.	1.5	24
160	Effects of steel slag and biochar amendments on CO2, CH4, and N2O flux, and rice productivity in a subtropical Chinese paddy field. Environmental Geochemistry and Health, 2019, 41, 1419-1431.	3.4	24
161	Trends in soil solution dissolved organic carbon (DOC) concentrations across European forests. Biogeosciences, 2016, 13, 5567-5585.	3.3	23
162	Climatic and edaphic controls over the elevational pattern of microbial necromass in subtropical forests. Catena, 2021, 207, 105707.	5.0	23

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163	â€œFertile islandsâ€•beneath three desert vegetation on soil phosphorus fractions, enzymatic activities, and microbial biomass in the desert-oasis transition zone. Catena, 2022, 212, 106090.	5.0	23
164	Increased eutrophication and nutrient imbalances in the agricultural soil of NE Catalonia, Spain. Journal of Environmental Biology, 2009, 30, 841-6.	0.5	23
165	Physiological and antioxidant responses ofQuercus ilexto drought in two different seasons. Plant Biosystems, 2014, 148, 268-278.	1.6	22
166	Variations in foliar carbon:nitrogen and nitrogen:phosphorus ratios under global change: a meta-analysis of experimental field studies. Scientific Reports, 2020, 10, 12156.	3.3	22
167	Long-term drought decreases ecosystem C and nutrient storage in a Mediterranean holm oak forest. Environmental and Experimental Botany, 2020, 177, 104135.	4.2	22
168	Dissimilatory Nitrate/Nitrite Reduction Processes in River Sediments Across Climatic Gradient: Influences of Biogeochemical Controls and Climatic Temperature Regime. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 2305-2320.	3.0	21
169	Effect of soil degradation on the carbon concentration and retention of nitrogen and phosphorus across Chinese rice paddy fields. Catena, 2022, 209, 105810.	5.0	21
170	Biogeochemical behavior of P in the soil and porewater of a low-salinity estuarine wetland: Availability, diffusion kinetics, and mobilization mechanism. Water Research, 2022, 219, 118617.	11.3	21
171	Changes in water content and distribution in Quercus ilex leaves during progressive drought assessed by in vivo 1H magnetic resonance imaging.. BMC Plant Biology, 2010, 10, 188.	3.6	20
172	Organic Cultivation of Jasmine and Tea Increases Carbon Sequestration by Changing Plant and Soil Stoichiometry. Agronomy Journal, 2016, 108, 1636-1648.	1.8	20
173	Close and distant: Contrasting the metabolism of two closely related subspecies of Scots pine under the effects of folivory and summer drought. Ecology and Evolution, 2017, 7, 8976-8988.	1.9	20
174	Shifts in plant and soil C, N and P accumulation and C:N:P stoichiometry associated with flooding intensity in subtropical estuarine wetlands in China. Estuarine, Coastal and Shelf Science, 2018, 215, 172-184.	2.1	20
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