Jordi Sardans

List of Publications by Citations

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

287 papers	13,689 citations	59 h-index	110 g-index
309 ext. papers	17,878 ext. citations	6.6 avg, IF	6.75 L-index

#	Paper	IF	Citations
287	TRY a global database of plant traits. *Global Change Biology*, **2011**, 17, 2905-2935	11.4	1623
286	Human-induced nitrogen-phosphorus imbalances alter natural and managed ecosystems across the globe. *Nature Communications*, **2013**, 4, 2934	17.4	679
285	The application of ecological stoichiometry to plant microbial soil organic matter transformations. *Ecological Monographs*, **2015**, 85, 133-155	9	431
284	TRY plant trait database - enhanced coverage and open access. *Global Change Biology*, **2020**, 26, 119-188	11.4	399
283	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	3	378
282	The human-induced imbalance between C, N and P in Earth's life system. *Global Change Biology*, **2012**, 18, 3-6	11.4	348
281	Drought decreases soil enzyme activity in a Mediterranean Quercus ilex L. forest. *Soil Biology and Biochemistry*, **2005**, 37, 455-461	7.5	314
280	Nutrient availability as the key regulator of global forest carbon balance. *Nature Climate Change*, **2014**, 4, 471-476	21.4	269
279	Evidence of current impact of climate change on life: a walk from genes to the biosphere. *Global Change Biology*, **2013**, 19, 2303-38	11.4	259
278	Potassium: a neglected nutrient in global change. *Global Ecology and Biogeography*, **2015**, 24, 261-275	6.1	239
277	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	3.8	239
276	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	5	225
275	Drought-resistant fungi control soil organic matter decomposition and its response to temperature. *Global Change Biology*, **2011**, 17, 1475-1486	11.4	217
274	Global trait-environment relationships of plant communities. *Nature Ecology and Evolution*, **2018**, 2, 1906-1917	11.5	209
273	The role of plants in the effects of global change on nutrient availability and stoichiometry in the plant-soil system. *Plant Physiology*, **2012**, 160, 1741-61	6.6	194
272	Global patterns of phosphatase activity in natural soils. *Scientific Reports*, **2017**, 7, 1337	4.9	179
271	Strong relationship between elemental stoichiometry and metabolome in plants. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 4181-6	11.5	179

270	Plant-soil interactions in Mediterranean forest and shrublands: impacts of climatic change. *Plant and Soil*, **2013**, 365, 1-33	4.2	165
269	Ecological metabolomics: overview of current developments and future challenges. *Chemoecology*, **2011**, 21, 191-225	2	156
268	Faster returns on leaf economics and different biogeochemical niche in invasive compared with native plant species. *Global Change Biology*, **2009**, 16, 2171-2185	11.4	127
267	Drought changes phosphorus and potassium accumulation patterns in an evergreen Mediterranean forest. *Functional Ecology*, **2007**, 21, 191-201	5.6	127
266	Warming and drought alter soil phosphatase activity and soil P availability in a Mediterranean shrubland. *Plant and Soil*, **2006**, 289, 227-238	4.2	126
265	Opposite metabolic responses of shoots and roots to drought. *Scientific Reports*, **2014**, 4, 6829	4.9	124
264	Root exudate metabolomes change under drought and show limited capacity for recovery. *Scientific Reports*, **2018**, 8, 12696	4.9	116
263	Warming and drought alter C and N concentration, allocation and accumulation in a Mediterranean shrubland. *Global Change Biology*, **2008**, 14, 2304-2316	11.4	116
262	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	3.1	112
261	Recent global decline of CO fertilization effects on vegetation photosynthesis. *Science*, **2020**, 370, 1295-1300	33.9	107
260	Changes in nutrient concentrations of leaves and roots in response to global change factors. *Global Change Biology*, **2017**, 23, 3849-3856	11.4	106
259	Shifting from a fertilization-dominated to a warming-dominated period. *Nature Ecology and Evolution*, **2017**, 1, 1438-1445	12.3	99
258	Plant competition in mediterranean-type vegetation. *Journal of Vegetation Science*, **1999**, 10, 281-294	3.1	99
257	Factors affecting nutrient concentration and stoichiometry of forest trees in Catalonia (NE Spain). *Forest Ecology and Management*, **2011**, 262, 2024-2034	3.9	98
256	Increasing drought decreases phosphorus availability in an evergreen Mediterranean forest. *Plant and Soil*, **2004**, 267, 367-377	4.2	97
255	Global forest carbon uptake due to nitrogen and phosphorus deposition from 1850 to 2100. *Global Change Biology*, **2017**, 23, 4854-4872	11.4	95
254	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	6.1	95
253	Plant invasion is associated with higher plant-soil nutrient concentrations in nutrient-poor environments. *Global Change Biology*, **2017**, 23, 1282-1291	11.4	91

252	Responses of soil nutrient concentrations and stoichiometry to different human land uses in a subtropical tidal wetland. *Geoderma*, **2014**, 232-234, 459-470	6.7	84
251	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	7.5	83
250	Urgent need for a common metric to make precipitation manipulation experiments comparable. *New Phytologist*, **2012**, 195, 518-522	9.8	82
249	Phosphorus accumulates faster than nitrogen globally in freshwater ecosystems under anthropogenic impacts. *Ecology Letters*, **2016**, 19, 1237-46	10	82
248	Warming differentially influences the effects of drought on stoichiometry and metabolomics in shoots and roots. *New Phytologist*, **2015**, 207, 591-603	9.8	81
247	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	6.1	79
246	A representation of the phosphorus cycle for ORCHIDEE (revision´4520). *Geoscientific Model Development*, **2017**, 10, 3745-3770	6.3	78
245	Drought, warming and soil fertilization effects on leaf volatile terpene concentrations in Pinus halepensis and Quercus ilex. *Acta Physiologiae Plantarum*, **2009**, 31, 207-218	2.6	78
244	Global trends in carbon sinks and their relationships with CO2 and temperature. *Nature Climate Change*, **2019**, 9, 73-79	21.4	77
243	Responses of forest ecosystems in Europe to decreasing nitrogen deposition. *Environmental Pollution*, **2019**, 244, 980-994	9.3	76
242	Connecting the Green and Brown Worlds: Allometric and Stoichiometric Predictability of Above- and Below-Ground Networks. *Advances in Ecological Research*, **2013**, 49, 69-175	4.6	74
241	Phosphorus limitation and competitive capacities of Pinus halepensis and Quercus ilex subsp. rotundifolia on different soils. *Plant Ecology*, **2004**, 174, 307-319	1.7	74
240	Foliar elemental composition of European forest tree species associated with evolutionary traits and present environmental and competitive conditions. *Global Ecology and Biogeography*, **2015**, 24, 240-255	6.1	73
239	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	4.2	73
238	The bioelements, the elementome, and the biogeochemical niche. *Ecology*, **2019**, 100, e02652	4.6	71
237	Trace element accumulation in the moss Hypnum cupressiforme Hedw. and the trees Quercus ilex L. and Pinus halepensis Mill. in Catalonia. *Chemosphere*, **2005**, 60, 1293-307	8.4	69
236	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	5.9	66
235	Drought enhances folivory by shifting foliar metabolomes in Quercus ilex trees. *New Phytologist*, **2014**, 202, 874-885	9.8	65

234	Plasticity of leaf morphological traits, leaf nutrient content, and water capture in the Mediterranean evergreen oak Quercus ilex subsp. ballota in response to fertilization and changes in competitive conditions1 Associate Editor: Jos Ram Obeso.. *Ecoscience*, **2006**, 13, 258-270	1.1	65
233	Foliar and soil concentrations and stoichiometry of nitrogen and phosphorous across European Pinus sylvestris forests: relationships with climate, N deposition and tree growth. *Functional Ecology*, **2016**, 30, 676-689	5.6	63
232	Afforestation neutralizes soil pH. *Nature Communications*, **2018**, 9, 520	17.4	62
231	Global and regional phosphorus budgets in agricultural systems and their implications for phosphorus-use efficiency. *Earth System Science Data*, **2018**, 10, 1-18	10.5	62
230	Impacts of Global Change on Mediterranean Forests and Their Services. *Forests*, **2017**, 8, 463	2.8	61
229	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	2.9	61
228	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	11.5	59
227	Long-term nitrogen deposition linked to reduced water use efficiency in forests with low phosphorus availability. *New Phytologist*, **2016**, 210, 431-42	9.8	58
226	Stoichiometry of potassium is largely determined by water availability and growth in Catalonian forests. *Functional Ecology*, **2012**, 26, 1077-1089	5.6	56
225	Higher plasticity in ecophysiological traits enhances the performance and invasion success of Taraxacum officinale (dandelion) in alpine environments. *Biological Invasions*, **2012**, 14, 21-33	2.7	55
224	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	4.9	53
223	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	5.5	53
222	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	8.5	53
221	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	2.6	53
220	Drought 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	3.8	52
219	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	11.4	50
218	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	1.7	49
217	Hydraulic redistribution by plants and nutrient stoichiometry: Shifts under global change. *Ecohydrology*, **2014**, 7, 1-20	2.5	49

216	Soil Enzyme Activity in a Mediterranean Forest after Six Years of Drought. *Soil Science Society of America Journal*, **2010**, 74, 838-851	2.5	48
215	Ecological metabolomics. *Chemistry and Ecology*, **2009**, 25, 305-309	2.3	48
214	Experimental and observational studies find contrasting responses of soil nutrients to climate change. *ELife*, **2017**, 6,	8.9	46
213	Global biodiversity, stoichiometry and ecosystem function responses to human-induced C-N-P imbalances. *Journal of Plant Physiology*, **2015**, 172, 82-91	3.6	45
212	Spatial variability and controls over biomass stocks, carbon fluxes, and resource-use efficiencies across forest ecosystems. *Trees - Structure and Function*, **2014**, 28, 597-611	2.6	44
211	Removal of floral microbiota reduces floral terpene emissions. *Scientific Reports*, **2014**, 4, 6727	4.9	44
210	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	2.6	44
209	Factors influencing the foliar elemental composition and stoichiometry in forest trees in Spain. *Perspectives in Plant Ecology, Evolution and Systematics*, **2016**, 18, 52-69	3	42
208	Atmospheric deposition, CO, and change in the land carbon sink. *Scientific Reports*, **2017**, 7, 9632	4.9	41
207	Climate and taxonomy underlie different elemental concentrations and stoichiometries of forest species: the optimum "biogeochemical niche". *Plant Ecology*, **2014**, 215, 441-455	1.7	40
206	Ecometabolomics: optimized NMR-based method. *Methods in Ecology and Evolution*, **2013**, 4, 464-473	7.7	39
205	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	6.1	39
204	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	5.9	39
203	Shifts in the elemental composition of plants during a very severe drought. *Environmental and Experimental Botany*, **2015**, 111, 63-73	5.9	38
202	Factors Related with CH4 and N2O Emissions from a Paddy Field: Clues for Management implications. *PLoS ONE*, **2017**, 12, e0169254	3.7	38
201	Soil properties explain tree growth and mortality, but not biomass, across phosphorus-depleted tropical forests. *Scientific Reports*, **2020**, 10, 2302	4.9	35
200	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	7.7	35
199	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	11.4	35

198	A systematic global stocktake of evidence on human adaptation to climate change. *Nature Climate Change*, **2021**, 11, 989-1000	21.4	34
197	Nutrient scarcity as a selective pressure for mast seeding. *Nature Plants*, **2019**, 5, 1222-1228	11.5	34
196	Rice straw incorporation affects global warming potential differently in early vs. late cropping seasons in Southeastern China. *Field Crops Research*, **2015**, 181, 42-51	5.5	32
195	Higher allocation to low cost chemical defenses in invasive species of Hawaii. *Journal of Chemical Ecology*, **2010**, 36, 1255-70	2.7	32
194	Shifts in plant foliar and floral metabolomes in response to the suppression of the associated microbiota. *BMC Plant Biology*, **2016**, 16, 78	5.3	31
193	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	11.5	31
192	Plant community composition affects the species biogeochemical niche. *Ecosphere*, **2017**, 8, e01801	3.1	30
191	Field-simulated droughts affect elemental leaf stoichiometry in Mediterranean forests and shrublands. *Acta Oecologica*, **2013**, 50, 20-31	1.7	30
190	Flood regime affects soil stoichiometry and the distribution of the invasive plants in subtropical estuarine wetlands in China. *Catena*, **2015**, 128, 144-154	5.8	30
189	Warming and drought change trace element bioaccumulation patterns in a Mediterranean shrubland. *Chemosphere*, **2008**, 70, 874-85	8.4	30
188	Potassium Control of Plant Functions: Ecological and Agricultural Implications. *Plants*, **2021**, 10,	4.5	30
187	Trees increase their P:N ratio with size. *Global Ecology and Biogeography*, **2015**, 24, 147-156	6.1	29
186	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	6.1	29
185	Drought changes the dynamics of trace element accumulation in a Mediterranean Quercus ilex forest. *Environmental Pollution*, **2007**, 147, 567-83	9.3	29
184	Agricultural land use decouples soil nutrient cycles in a subtropical riparian wetland in China. *Catena*, **2015**, 133, 171-178	5.8	28
183	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	3.2	28
182	Changes in Ca, Fe, Mg, Mo, Na, and S content in a Mediterranean shrubland under warming and drought. *Journal of Geophysical Research*, **2008**, 113,		28
181	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, 1925-33	2.7	28

180	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	4.2	27
179	Foliar C, N, and P stoichiometry characterize successful plant ecological strategies in the Sonoran Desert. *Plant Ecology*, **2018**, 219, 775-788	1.7	26
178	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	2.8	26
177	Increasing atmospheric CO concentrations correlate with declining nutritional status of European forests. *Communications Biology*, **2020**, 3, 125	6.7	25
176	Effects of extreme drought on plant nutrient uptake and resorption in rhizomatous vs bunchgrass-dominated grasslands. *Oecologia*, **2018**, 188, 633-643	2.9	25
175	Distinct Morphological, Physiological, and Biochemical Responses to Light Quality in Barley Leaves and Roots. *Frontiers in Plant Science*, **2019**, 10, 1026	6.2	25
174	Winter warming is ecologically more relevant than summer warming in a cool-temperate grassland. *Scientific Reports*, **2019**, 9, 14632	4.9	25
173	Plant invasive success associated with higher N-use efficiency and stoichiometric shifts in the soil–plant system in the Minjiang River tidal estuarine wetlands of China. *Wetlands Ecology and Management*, **2015**, 23, 865-880	2.1	24
172	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	3	24
171	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	5.3	22
170	Exploring continental-scale stand health - N:P ratio relationships for European forests. *New Phytologist*, **2014**, 202, 422-430	9.8	22
169	Whole soil acidification and base cation reduction across subtropical China. *Geoderma*, **2020**, 361, 114107	6.7	22
168	Towards comparable assessment of the soil nutrient status across scales-Review and development of nutrient metrics. *Global Change Biology*, **2020**, 26, 392-409	11.4	22
167	Metabolic responses of Quercus ilex seedlings to wounding analysed with nuclear magnetic resonance profiling. *Plant Biology*, **2014**, 16, 395-403	3.7	21
166	Soil enzymes associated with carbon and nitrogen cycling in invaded and native secondary forests of northwestern Argentina. *Plant and Soil*, **2014**, 384, 169-183	4.2	21
165	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, 615-29	2.1	21
164	Phosphorus addition decreases microbial residual contribution to soil organic carbon pool in a tropical coastal forest. *Global Change Biology*, **2021**, 27, 454-466	11.4	21
163	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	6.3	21

162	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	6.2	21
161	Increased eutrophication and nutrient imbalances in the agricultural soil of NE Catalonia, Spain. *Journal of Environmental Biology*, **2009**, 30, 841-6	1.6	21
160	Ecometabolomics for a Better Understanding of Plant Responses and Acclimation to Abiotic Factors Linked to Global Change. *Metabolites*, **2020**, 10,	5.6	20
159	Effects of seasonal and decadal warming on soil enzymatic activity in a P-deficient Mediterranean shrubland. *Global Change Biology*, **2020**, 26, 3698-3714	11.4	20
158	Oak protein profile alterations upon root colonization by an ectomycorrhizal fungus. *Mycorrhiza*, **2017**, 27, 109-128	3.9	20
157	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	4.2	20
156	Drought changes nutrient sources, content and stoichiometry in the bryophyte Hypnum cupressiforme Hedw. growing in a Mediterranean forest. *Journal of Bryology*, **2008**, 30, 59-65	1.1	20
155	Introduction of the factor of partitioning in the lithogenic enrichment factors of trace element bioaccumulation in plant tissues. *Environmental Monitoring and Assessment*, **2006**, 115, 473-98	3.1	20
154	A systemic overreaction to years versus decades of warming in a subarctic grassland ecosystem. *Nature Ecology and Evolution*, **2020**, 4, 101-108	12.3	20
153	Thresholds in decoupled soil-plant elements under changing climatic conditions. *Plant and Soil*, **2016**, 409, 159-173	4.2	19
152	Effect of simulated acid rain on CO, CH and NO fluxes and rice productivity in a subtropical Chinese paddy field. *Environmental Pollution*, **2018**, 243, 1196-1205	9.3	19
151	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	6.7	18
150	Physiological and antioxidant responses of Quercus ilex to drought in two different seasons. *Plant Biosystems*, **2014**, 148, 268-278	1.6	18
149	The effects of ´nutrient availability and ´removal of ´competing vegetation on ´resprouter capacity and ´nutrient accumulation in ´the ´shrub Erica ´multiflora. *Acta Oecologica*, **2006**, 29, 221-232	1.7	18
148	Similar local, but different systemic, metabolomic responses of closely related pine subspecies to folivory by caterpillars of the processionary moth. *Plant Biology*, **2016**, 18, 484-94	3.7	18
147	Atmospheric deposition of elements and its relevance for nutrient budgets of tropical forests. *Biogeochemistry*, **2020**, 149, 175-193	3.8	17
146	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	2.8	17
145	Global Change and Forest Disturbances in the Mediterranean Basin: Breakthroughs, Knowledge Gaps, and Recommendations. *Forests*, **2021**, 12, 603	2.8	17

144	The shift of phosphorus transfers in global fisheries and aquaculture. *Nature Communications*, **2020**, 11, 355	17.4	16
143	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	5.3	16
142	Females of the specialist butterfly Euphydryas aurinia (Lepidoptera: Nymphalinae: Melitaeini) select the greenest leaves of Lonicera implexa (Caprifoliaceae) for oviposition. *European Journal of Entomology*, **2006**, 103, 569-574		16
141	Patterns and environmental drivers of greenhouse gas fluxes in the coastal wetlands of China: A systematic review and synthesis. *Environmental Research*, **2020**, 186, 109576	7.9	15
140	Soil Methane Production, Anaerobic and Aerobic Oxidation in Porewater of Wetland Soils of the Minjiang River Estuarine, China. *Wetlands*, **2018**, 38, 627-640	1.7	15
139	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	3.7	15
138	Absence of soil frost affects plant-soil interactions in temperate grasslands. *Plant and Soil*, **2013**, 371, 559-572	4.2	15
137	Trends in soil solution dissolved organic carbon (DOC) concentrations across European forests. *Biogeosciences*, **2016**, 13, 5567-5585	4.6	15
136	Organic Cultivation of Jasmine and Tea Increases Carbon Sequestration by Changing Plant and Soil Stoichiometry. *Agronomy Journal*, **2016**, 108, 1636-1648	2.2	15
135	Are the metabolomic responses to folivory of closely related plant species linked to macroevolutionary and plant-folivore coevolutionary processes?. *Ecology and Evolution*, **2016**, 6, 4372-86	2.8	15
134	Impact of Plant Invasion and Increasing Floods on Total Soil Phosphorus and its Fractions in the Minjiang River Estuarine Wetlands, China. *Wetlands*, **2016**, 36, 21-36	1.7	14
133	Foliar mono- and sesquiterpene contents in relation to leaf economic spectrum in native and alien species in Oahu (Hawai'i). *Journal of Chemical Ecology*, **2010**, 36, 210-26	2.7	14
132	Daily CO Emission Reduction Indicates the Control of Activities to Contain COVID-19 in China. *Innovation(China)*, **2020**, 1, 100062	17.8	14
131	Empirical support for the biogeochemical niche hypothesis in forest trees. *Nature Ecology and Evolution*, **2021**, 5, 184-194	12.3	14
130	Higher capability of C3 than C4 plants to use nitrogen inferred from nitrogen stable isotopes along an aridity gradient. *Plant and Soil*, **2018**, 428, 93-103	4.2	13
129	Typhoon enhancement of N and P release from litter and changes in the litter N:P ratio in a subtropical tidal wetland. *Environmental Research Letters*, **2016**, 11, 014003	6.2	13
128	Steel slag and biochar amendments decreased CO 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	10.2	12
127	Amendment with industrial and agricultural wastes reduces surface-water nutrient loss and storage of dissolved greenhouse gases in a subtropical paddy field. *Agriculture, Ecosystems and Environment*, **2016**, 231, 296-303	5.7	12

126	Physiological and antioxidant responses of Erica multiflora to drought and warming through different seasons. *Plant Ecology*, **2012**, 213, 649-661	1.7	12
125	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	2.9	12
124	Nutrient scarcity strengthens soil fauna control over leaf litter decomposition in tropical rainforests. *Proceedings of the Royal Society B: Biological Sciences*, **2019**, 286, 20191300	4.4	11
123	Nitrogen reduction processes in paddy soils across climatic gradients: Key controlling factors and environmental implications. *Geoderma*, **2020**, 368, 114275	6.7	11
122	Storage and release of nutrients during litter decomposition for native and invasive species under different flooding intensities in a Chinese wetland. *Aquatic Botany*, **2018**, 149, 5-16	1.8	11
121	Trophic transfer from aquatic to terrestrial ecosystems: a test of the biogeochemical niche hypothesis. *Ecosphere*, **2018**, 9, e02338	3.1	11
120	Rice paddy soils are a quantitatively important carbon store according to a global synthesis. *Communications Earth & Environment*, **2021**, 2,	6.1	11
119	Increasing gap in human height between rich and poor countries associated to their different intakes of N and P. *Scientific Reports*, **2017**, 7, 17671	4.9	10
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