

Josep Penuelas

List of Publications by Year in Descending Order

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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.

1,090 papers	87,338 citations	133 h-index	263 g-index
1,200 ext. papers	107,203 ext. citations	7.5 avg, IF	8.32 L-index

#	Paper	IF	Citations
1090	The global nitrogen-phosphorus imbalance.. <i>Science</i> , 2022 , 375, 266-267	33.3	3
1089	Contrasting phenology responses to climate warming across the northern extra-tropics. <i>Fundamental Research</i> , 2022 ,		1
1088	Impact of Lockdowns and Winter Temperatures on Natural Gas Consumption in Europe. <i>Earth's Future</i> , 2022 , 10,	7.9	3
1087	Functional Traits 2.0: The power of the metabolome for ecology. <i>Journal of Ecology</i> , 2022 , 110, 4-20	6	5
1086	Timing leaf senescence: A generalized additive models for location, scale and shape approach. <i>Agricultural and Forest Meteorology</i> , 2022 , 315, 108823	5.8	1
1085	Paddy soils have a much higher microbial biomass content than upland soils: A review of the origin, mechanisms, and drivers. <i>Agriculture, Ecosystems and Environment</i> , 2022 , 326, 107798	5.7	7
1084	Contribution of periphytic biofilm of paddy soils to carbon dioxide fixation and methane emissions.. <i>Innovation(China)</i> , 2022 , 3, 100192	17.8	0
1083	Vertical profiles of leaf photosynthesis and leaf traits and soil nutrients in two tropical rainforests in French Guiana before and after a 3-year nitrogen and phosphorus addition experiment. <i>Earth System Science Data</i> , 2022 , 14, 5-18	10.5	0
1082	Seasonal drought in Mediterranean soils mainly changes microbial C and N contents whereas chronic drought mainly impairs the capacity of microbes to retain P. <i>Soil Biology and Biochemistry</i> , 2022 , 165, 108515	7.5	0
1081	Delayed and altered post-fire recovery pathways of Mediterranean shrubland under 20-year drought manipulation. <i>Forest Ecology and Management</i> , 2022 , 506, 119970	3.9	
1080	Global maps and factors driving forest foliar elemental composition: the importance of evolutionary history. <i>New Phytologist</i> , 2022 , 233, 169-181	9.8	3
1079	Effect of soil degradation on the carbon concentration and retention of nitrogen and phosphorus across Chinese rice paddy fields. <i>Catena</i> , 2022 , 209, 105810	5.8	1
1078	Allocation of foliar-P fractions of <i>Alhagi sparsifolia</i> and its relationship with soil-P fractions and soil properties in a hyperarid desert ecosystem. <i>Geoderma</i> , 2022 , 407, 115546	6.7	3
1077	Residual chlorine disrupts the microbial communities and spreads antibiotic resistance in freshwater. <i>Journal of Hazardous Materials</i> , 2022 , 423, 127152	12.8	16
1076	Contrasting nitrogen and phosphorus fertilization effects on soil terpene exchanges in a tropical forest. <i>Science of the Total Environment</i> , 2022 , 802, 149769	10.2	
1075	Annual and seasonal variations in soil volatile organic compound concentrations in a Mediterranean shrubland and holm oak forest. <i>Geoderma</i> , 2022 , 405, 115401	6.7	0
1074	Drought legacies on soil respiration and microbial community in a Mediterranean forest soil under different soil moisture and carbon inputs. <i>Geoderma</i> , 2022 , 405, 115425	6.7	1

1072	Decreasing rainfall frequency contributes to earlier leaf onset in northern ecosystems. <i>Nature Climate Change</i> , 2022 , 12, 386-392	21.4	2
1071	Definitions and methods to estimate regional land carbon fluxes for the second phase of the REgional Carbon Cycle Assessment and Processes Project (RECCAP-2). <i>Geoscientific Model Development</i> , 2022 , 15, 1289-1316	6.3	6
1070	An earlier start of the thermal growing season enhances tree growth in cold humid areas but not in dry areas.. <i>Nature Ecology and Evolution</i> , 2022 ,	12.3	5
1069	Assessment of global health risk of antibiotic resistance genes.. <i>Nature Communications</i> , 2022 , 13, 1553	17.4	14
1068	Down-regulation of the bacterial protein biosynthesis machinery in response to weeks, years, and decades of soil warming.. <i>Science Advances</i> , 2022 , 8, eabm3230	14.3	0
1067	Global distribution and drivers of forest biome foliar nitrogen to phosphorus ratios (N:P). <i>Global Ecology and Biogeography</i> , 2022 , 31, 861-871	6.1	1
1066	Advancing Global Biodiversity Governance: Recommendations for Strengthening the Post-2020 Global Biodiversity Framework. <i>Anthropocene Science</i> , 2022 , 1, 195-203		0
1065	A Broadband Green-Red Vegetation Index for Monitoring Gross Primary Production Phenology. <i>Journal of Remote Sensing</i> , 2022 , 2022, 1-10		4
1064	Effects of slag and biochar amendments on microorganisms and fractions of soil organic carbon during flooding in a paddy field after two years in southeastern China.. <i>Science of the Total Environment</i> , 2022 , 824, 153783	10.2	1
1063	Response of functional traits in <i>Machilus pauhoi</i> to nitrogen addition is influenced by differences of provenances. <i>Forest Ecology and Management</i> , 2022 , 513, 120207	3.9	0
1062	Combining NDVI, PRI and the quantum yield of solar-induced fluorescence improves estimations of carbon fluxes in deciduous and evergreen forests.. <i>Science of the Total Environment</i> , 2022 , 154681	10.2	1
1061	Globally limited individual and combined effects of multiple global change factors on allometric biomass partitioning. <i>Global Ecology and Biogeography</i> , 2022 , 31, 454-469	6.1	0
1060	The amounts and ratio of nitrogen and phosphorus addition drive the rate of litter decomposition in a subtropical forest.. <i>Science of the Total Environment</i> , 2022 , 155163	10.2	0
1059	Oxidation product characterization from ozonolysis of the diterpene <i>ent<i>/i>-kaurene. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 5619-5637	6.8	0
1058	The EU needs a nutrient directive. <i>Nature Reviews Earth & Environment</i> , 2022 , 3, 287-288	30.2	0
1057	Global Carbon Budget 2021. <i>Earth System Science Data</i> , 2022 , 14, 1917-2005	10.5	47
1056	Carbon, Nitrogen and Phosphorus Stoichiometry in Natural and Plantation Forests in China. <i>Forests</i> , 2022 , 13, 755	2.8	0

1055 Balancing greenhouse gas sources and sinks: Inventories, budgets, and climate policy **2022**, 3-28

1054 Taste and Smell: A Unifying Chemosensory Theory. *Quarterly Review of Biology*, **2022**, 97, 69-94 5.4 0

1053 Fluorescence ratio and photochemical reflectance index as a proxy for photosynthetic quantum efficiency of photosystem II along a phosphorus gradient. *Agricultural and Forest Meteorology*, **2022**, 322, 109019 5.8 0

1052 Large loss and rapid recovery of vegetation cover and aboveground biomass over forest areas in Australia during 2019-2020. *Remote Sensing of Environment*, **2022**, 278, 113087 13.2 1

1051 Measuring root exudate metabolites in holm oak (*Quercus ilex*) under drought and recovery **2022**, 17-28

1050 Thermal Acclimation of Foliar Carbon Metabolism in Along an Elevational Gradient.. *Frontiers in Plant Science*, **2021**, 12, 778045 6.2

1049 Nitrogen enrichment buffers phosphorus limitation by mobilizing mineral-bound soil phosphorus in grasslands.. *Ecology*, **2021**, e3616 4.6 1

1048 Climatic and soil factors explain the two-dimensional spectrum of global plant trait variation.. *Nature Ecology and Evolution*, **2021**, 12.3 6

1047 Decay of similarity across tropical forest communities: integrating spatial distance with soil nutrients. *Ecology*, **2021**, e03599 4.6 1

1046 Multi-decadal increase of forest burned area in Australia is linked to climate change. *Nature Communications*, **2021**, 12, 6921 17.4 26

1045 Evolution of Human Salivary Stress Markers during an Eight-Hour Exposure to a Mediterranean Holm Oak Forest. A Pilot Study. *Forests*, **2021**, 12, 1600 2.8 2

1044 Is the climate change mitigation effect of enhanced silicate weathering governed by biological processes?. *Global Change Biology*, **2021**, 11.4 1

1043 Natural forests promote phosphorus retention in soil. *Global Change Biology*, **2021**, 11.4 2

1042 Interactive effects of soil water content and nutrients on root exudation in two Mediterranean tree species. *Soil Biology and Biochemistry*, **2021**, 163, 108453 7.5 1

1041 Does biological rhythm transmit from plants to rhizosphere microbes?. *Environmental Microbiology*, **2021**, 23, 6895-6906 5.2 1

1040 ForestTemp - Sub-canopy microclimate temperatures of European forests. *Global Change Biology*, **2021**, 27, 6307-6319 11.4 5

1039 Monitoring Compliance in Pandemic Management with Air Pollution Data: A Lesson From COVID-19. *Environmental Science & Technology*, **2021**, 55, 13571-13574 10.3 0

1038 A systematic global stocktake of evidence on human adaptation to climate change. *Nature Climate Change*, **2021**, 11, 989-1000 21.4 34

1037	Increasing climatic sensitivity of global grassland vegetation biomass and species diversity correlates with water availability. <i>New Phytologist</i> , 2021 , 230, 1761-1771	9.8	3
1036	Different sets of traits explain abundance and distribution patterns of European plants at different spatial scales. <i>Journal of Vegetation Science</i> , 2021 , 32, e13016	3.1	2
1035	Photoperiod decelerates the advance of spring phenology of six deciduous tree species under climate warming. <i>Global Change Biology</i> , 2021 , 27, 2914-2927	11.4	5
1034	Divergent effects of drought and nitrogen deposition on microbial and arthropod soil communities in a Mediterranean forest. <i>European Journal of Soil Biology</i> , 2021 , 103, 103275	2.9	2
1033	Divergent responses of phenology and growth to summer and autumnal warming. <i>Global Change Biology</i> , 2021 , 27, 2905-2913	11.4	1
1032	Climate Change Effects in a Mediterranean Forest Following 21 Consecutive Years of Experimental Drought. <i>Forests</i> , 2021 , 12, 306	2.8	4
1031	Measuring temporal patterns in ecology: The case of mast seeding. <i>Ecology and Evolution</i> , 2021 , 11, 2990-2996	2.8	1
1030	The impact of climate warming on species diversity across scales: Lessons from experimental meta-ecosystems. <i>Global Ecology and Biogeography</i> , 2021 , 30, 1545-1554	6.1	0
1029	Changes in soil carbon, nitrogen, and phosphorus contents, storages, and stoichiometry during land degradation in jasmine croplands in subtropical China. <i>Experimental Agriculture</i> , 2021 , 57, 113-125	1.7	2
1028	Natural abundance of C and N provides evidence for plant-soil carbon and nitrogen dynamics in a N-fertilized meadow. <i>Ecology</i> , 2021 , 102, e03348	4.6	1
1027	Widespread decline in winds delayed autumn foliar senescence over high latitudes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	14
1026	Metabolomics and transcriptomics to decipher molecular mechanisms underlying ectomycorrhizal root colonization of an oak tree. <i>Scientific Reports</i> , 2021 , 11, 8576	4.9	1
1025	Bryophyte C:N:P stoichiometry, biogeochemical niches and elementome plasticity driven by environment and coexistence. <i>Ecology Letters</i> , 2021 , 24, 1375-1386	10	6
1024	Functional leaf traits indicate phylogenetic signals in forests across an elevational gradient in the central Himalaya. <i>Journal of Plant Research</i> , 2021 , 134, 753-764	2.6	1
1023	Reply to: Disentangling biology from mathematical necessity in twentieth-century gymnosperm resilience trends. <i>Nature Ecology and Evolution</i> , 2021 , 5, 736-737	12.3	0
1022	The human dimension of biodiversity changes on islands. <i>Science</i> , 2021 , 372, 488-491	33.3	23
1021	Nutrients control reproductive traits of hygrophytic bryophytes. <i>Freshwater Biology</i> , 2021 , 66, 1436-1446	9.1	1
1020	Deciphering Potential Roles of Earthworms in Mitigation of Antibiotic Resistance in the Soils from Diverse Ecosystems. <i>Environmental Science & Technology</i> , 2021 , 55, 7445-7455	10.3	11

1019	Spatially explicit analysis identifies significant potential for bioenergy with carbon capture and storage in China. <i>Nature Communications</i> , 2021 , 12, 3159	17.4	14
1018	How Nitrogen and Phosphorus Availability Change Water Use Efficiency in a Mediterranean Savanna Ecosystem. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2020JG006005	3.7	1
1017	Global Change and Forest Disturbances in the Mediterranean Basin: Breakthroughs, Knowledge Gaps, and Recommendations. <i>Forests</i> , 2021 , 12, 603	2.8	17
1016	Diffusive CH ₄ fluxes from aquaculture ponds using floating chambers and thin boundary layer equations. <i>Atmospheric Environment</i> , 2021 , 253, 118384	5.3	2
1015	High plasticity in germination and establishment success in the dominant forest tree <i>Fagus sylvatica</i> across Europe. <i>Global Ecology and Biogeography</i> , 2021 , 30, 1583-1596	6.1	3
1014	Short-Term N-Fertilization Differently Affects the Leaf and Leaf Litter Chemistry of the Dominant Species in a Mediterranean Forest under Drought Conditions. <i>Forests</i> , 2021 , 12, 605	2.8	0
1013	Global patterns and drivers of rainfall partitioning by trees and shrubs. <i>Global Change Biology</i> , 2021 , 27, 3350-3357	11.4	9
1012	Recent advances and future research in ecological stoichiometry. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2021 , 50, 125611	3	10
1011	sPlotOpen [An environmentally balanced, open-access, global dataset of vegetation plots. <i>Global Ecology and Biogeography</i> , 2021 , 30, 1740-1764	6.1	6
1010	Root traits explain plant species distributions along climatic gradients yet challenge the nature of ecological trade-offs. <i>Nature Ecology and Evolution</i> , 2021 , 5, 1123-1134	12.3	11
1009	Human absorption of monoterpenes after a 2-h forest exposure: A field experiment in a Mediterranean holm oak forest. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021 , 200, 114080	3.5	2
1008	Phosphorus mobilization and availability across the freshwater to oligohaline water transition in subtropical estuarine marshes. <i>Catena</i> , 2021 , 201, 105195	5.8	2
1007	High foliar K and P resorption efficiencies in old-growth tropical forests growing on nutrient-poor soils. <i>Ecology and Evolution</i> , 2021 , 11, 8969-8982	2.8	4
1006	Influences of international agricultural trade on the global phosphorus cycle and its associated issues. <i>Global Environmental Change</i> , 2021 , 69, 102282	10.1	2
1005	Potential CO ₂ removal from enhanced weathering by ecosystem responses to powdered rock. <i>Nature Geoscience</i> , 2021 , 14, 545-549	18.3	10
1004	Dynamics of volatile organic compounds in a western Mediterranean oak forest. <i>Atmospheric Environment</i> , 2021 , 257, 118447	5.3	3
1003	Shifts in the Abundances of Saprotrophic and Ectomycorrhizal Fungi With Altered Leaf Litter Inputs. <i>Frontiers in Plant Science</i> , 2021 , 12, 682142	6.2	3
1002	Ambient climate determines the directional trend of community stability under warming and grazing. <i>Global Change Biology</i> , 2021 , 27, 5198-5210	11.4	1

1001	Warming affects soil metabolome: The case study of Icelandic grasslands. <i>European Journal of Soil Biology</i> , 2021 , 105, 103317	2.9	
1000	Impact of Nutrient Additions on Free-Living Nitrogen Fixation in Litter and Soil of Two French-Guianese Lowland Tropical Forests. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2020JG006023	3.7	2
999	Denitrification rates in tidal marsh soils: The roles of soil texture, salinity and nitrogen enrichment. <i>European Journal of Soil Science</i> , 2021 , 72, 474-479	3.4	3
998	Temperature controls growth of <i>Pinus taiwanensis</i> along an elevational gradient. <i>Trees - Structure and Function</i> , 2021 , 35, 433-440	2.6	3
997	Integrating the evidence for a terrestrial carbon sink caused by increasing atmospheric CO. <i>New Phytologist</i> , 2021 , 229, 2413-2445	9.8	94
996	Empirical estimates of regional carbon budgets imply reduced global soil heterotrophic respiration. <i>National Science Review</i> , 2021 , 8, nwaa145	10.8	30
995	Developing holistic models of the structure and function of the soil/plant/atmosphere continuum. <i>Plant and Soil</i> , 2021 , 461, 29-42	4.2	4
994	Effects of crabs on greenhouse gas emissions, soil nutrients, and stoichiometry in a subtropical estuarine wetland. <i>Biology and Fertility of Soils</i> , 2021 , 57, 131-144	6.1	4
993	Advances in hyperspectral remote sensing of vegetation traits and functions. <i>Remote Sensing of Environment</i> , 2021 , 252, 112121	13.2	13
992	GLOVOCS - Master compound assignment guide for proton transfer reaction mass spectrometry users. <i>Atmospheric Environment</i> , 2021 , 244, 117929	5.3	7
991	A model for estimating transpiration from remotely sensed solar-induced chlorophyll fluorescence. <i>Remote Sensing of Environment</i> , 2021 , 252, 112134	13.2	11
990	Phosphorus addition decreases microbial residual contribution to soil organic carbon pool in a tropical coastal forest. <i>Global Change Biology</i> , 2021 , 27, 454-466	11.4	21
989	Lessons learned from COVID-19 on potentially pathogenic soil microorganisms. <i>Soil Ecology Letters</i> , 2021 , 3, 1-5	2.7	9
988	Interacting effects of urea and water addition on soil mineral-bound phosphorus dynamics in semi-arid grasslands with different land-use history. <i>European Journal of Soil Science</i> , 2021 , 72, 946-962	3.4	5
987	A Threshold Method for Robust and Fast Estimation of Land-Surface Phenology Using Google Earth Engine. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021 , 14, 601-606	4.7	5
986	Typhoon-induced increases in porewater nutrient concentrations and CO ₂ and CH ₄ emissions associated with salinity and carbon intrusion in a subtropical tidal wetland in China: A mesocosm study. <i>Geoderma</i> , 2021 , 384, 114800	6.7	0
985	Comparable canopy and soil free-living nitrogen fixation rates in a lowland tropical forest. <i>Science of the Total Environment</i> , 2021 , 754, 142202	10.2	3
984	Global root traits (GRooT) database. <i>Global Ecology and Biogeography</i> , 2021 , 30, 25-37	6.1	28

983	Ten new insights in climate science 2020 a horizon scan. <i>Global Sustainability</i> , 2021 , 4,	5.4	7
982	Ecosystem Collapse and Climate Change: An Introduction. <i>Ecological Studies</i> , 2021 , 1-9	1.1	3
981	Empirical support for the biogeochemical niche hypothesis in forest trees. <i>Nature Ecology and Evolution</i> , 2021 , 5, 184-194	12.3	14
980	Data-driven estimates of global litter production imply slower vegetation carbon turnover. <i>Global Change Biology</i> , 2021 , 27, 1678-1688	11.4	2
979	Climatic and evolutionary contexts are required to infer plant life history strategies from functional traits at a global scale. <i>Ecology Letters</i> , 2021 , 24, 970-983	10	4
978	Impacts of Use and Abuse of Nature in Catalonia with Proposals for Sustainable Management. <i>Land</i> , 2021 , 10, 144	3.5	2
977	Soil Cover Improves Soil Quality in a Young Walnut Forest in the Sichuan Basin, China. <i>Forests</i> , 2021 , 12, 236	2.8	3
976	Seasonal biological carryover dominates northern vegetation growth. <i>Nature Communications</i> , 2021 , 12, 983	17.4	9
975	Potassium Control of Plant Functions: Ecological and Agricultural Implications. <i>Plants</i> , 2021 , 10,	4.5	30
974	The Mediterranean Region as a Paradigm of the Global Decoupling of N and P Between Soils and Freshwaters. <i>Global Biogeochemical Cycles</i> , 2021 , 35, e2020GB006874	5.9	2
973	Recent leveling off of vegetation greenness and primary production reveals the increasing soil water limitations on the greening Earth. <i>Science Bulletin</i> , 2021 , 66, 1462-1471	10.6	6
972	Monitoring the Responses of Deciduous Forest Phenology to 2000-2018 Climatic Anomalies in the Northern Hemisphere. <i>Remote Sensing</i> , 2021 , 13, 2806	5	0
971	Stability of elemental content correlates with plant resistance to soil impoverishment. <i>Plant and Soil</i> , 2021 , 467, 213	4.2	1
970	Faster recovery of soil biodiversity in native species mixture than in Eucalyptus monoculture after 60 years afforestation in tropical degraded coastal terraces. <i>Global Change Biology</i> , 2021 , 27, 5329-5340	11.4	1
969	Eco-evolutionary optimality as a means to improve vegetation and land-surface models. <i>New Phytologist</i> , 2021 , 231, 2125-2141	9.8	10
968	Response of soil nutrient concentrations and stoichiometry, and greenhouse gas carbon emissions linked to change in land-use of paddy fields in China. <i>Catena</i> , 2021 , 203, 105326	5.8	3
967	Predicting the effect of confinement on the COVID-19 spread using machine learning enriched with satellite air pollution observations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
966	Disentangling climate from soil nutrient effects on plant biomass production using a multispecies phytometer. <i>Ecosphere</i> , 2021 , 12, e03719	3.1	2

965	Rice paddy soils are a quantitatively important carbon store according to a global synthesis. <i>Communications Earth & Environment</i> , 2021 , 2,	6.1	11
964	Low-level saltwater intrusion alters soil diazotrophic community structure in a subtropical estuarine wetland. <i>Applied Soil Ecology</i> , 2021 , 164, 103959	5	0
963	The effect of global change on soil phosphatase activity. <i>Global Change Biology</i> , 2021 , 27, 5989-6003	11.4	8
962	Carbon limitation overrides acidification in mediating soil microbial activity to nitrogen enrichment in a temperate grassland. <i>Global Change Biology</i> , 2021 , 27, 5976-5988	11.4	3
961	Phosphorus addition reverses the negative effect of nitrogen addition on soil arthropods during litter decomposition in a subtropical forest. <i>Science of the Total Environment</i> , 2021 , 781, 146786	10.2	3
960	The three major axes of terrestrial ecosystem function. <i>Nature</i> , 2021 , 598, 468-472	50.4	8
959	Ecometabolomics of plant herbivore and plant fungi interactions: a synthesis study. <i>Ecosphere</i> , 2021 , 12, e03736	3.1	3
958	Response to Comments on "Recent global decline of CO fertilization effects on vegetation photosynthesis". <i>Science</i> , 2021 , 373, eabg7484	33.3	2
957	Implications of mistletoe parasitism for the host metabolome: A new plant identity in the forest canopy. <i>Plant, Cell and Environment</i> , 2021 , 44, 3655-3666	8.4	1
956	Gammaproteobacteria, a core taxon in the guts of soil fauna, are potential responders to environmental concentrations of soil pollutants. <i>Microbiome</i> , 2021 , 9, 196	16.6	7
955	Simulated climate change and seasonal drought increase carbon and phosphorus demand in Mediterranean forest soils. <i>Soil Biology and Biochemistry</i> , 2021 , 163, 108424	7.5	2
954	Effects of addition of nitrogen-enriched biochar on bacteria and fungi community structure and C, N, P, and Fe stoichiometry in subtropical paddy soils. <i>European Journal of Soil Biology</i> , 2021 , 106, 103351 ^{2.9}	12.9	3
953	No benefits from warming even for subnival vegetation in the central Himalayas. <i>Science Bulletin</i> , 2021 , 66, 1825-1829	10.6	6
952	Forest resilience to global warming is strongly modulated by local-scale topographic, microclimatic and biotic conditions. <i>Journal of Ecology</i> , 2021 , 109, 3322-3339	6	4
951	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. <i>Environmental Pollution</i> , 2021 , 287, 117565	9.3	8
950	Soil phosphorus availability affects diazotroph communities during vegetation succession in lowland subtropical forests. <i>Applied Soil Ecology</i> , 2021 , 166, 104009	5	4
949	Divergent effects of snow exclusion on microbial variables across aggregate size classes. <i>Catena</i> , 2021 , 206, 105481	5.8	
948	Legacy effects of spring phenology on vegetation growth under pre-season meteorological drought in the Northern Hemisphere. <i>Agricultural and Forest Meteorology</i> , 2021 , 310, 108630	5.8	7

947	Climatic and edaphic controls over the elevational pattern of microbial necromass in subtropical forests. <i>Catena</i> , 2021 , 207, 105707	5.8	1
946	Changes in soil enzymatic activity in a P-limited Mediterranean shrubland subject to experimental nitrogen deposition. <i>Applied Soil Ecology</i> , 2021 , 168, 104159	5	0
945	Soil nutrient variation along a shallow catena in Paracou, French Guiana. <i>Soil Research</i> , 2021 , 59, 130	1.8	2
944	Cyanobacterial blooms contribute to the diversity of antibiotic-resistance genes in aquatic ecosystems. <i>Communications Biology</i> , 2020 , 3, 737	6.7	14
943	Recent global decline of CO fertilization effects on vegetation photosynthesis. <i>Science</i> , 2020 , 370, 1295-1300	3.9	107
942	The Additions of Nitrogen and Sulfur Synergistically Decrease the Release of Carbon and Nitrogen from Litter in a Subtropical Forest. <i>Forests</i> , 2020 , 11, 1280	2.8	3
941	Wood vs. Canopy Allocation of Aboveground Net Primary Productivity in a Mediterranean Forest during 21 Years of Experimental Rainfall Exclusion. <i>Forests</i> , 2020 , 11, 1094	2.8	4
940	Timeline of autumn phenology in temperate deciduous trees. <i>Tree Physiology</i> , 2020 , 40, 1001-1013	4.2	15
939	Effects of decadal experimental drought and climate extremes on vegetation growth in Mediterranean forests and shrublands. <i>Journal of Vegetation Science</i> , 2020 , 31, 768-779	3.1	6
938	Temporary reduction in daily global CO ₂ emissions during the COVID-19 forced confinement. <i>Nature Climate Change</i> , 2020 , 10, 647-653	21.4	842
937	Improvement in municipal wastewater treatment alters lake nitrogen to phosphorus ratios in populated regions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 11566-11572	11.5	59
936	Organizing principles for vegetation dynamics. <i>Nature Plants</i> , 2020 , 6, 444-453	11.5	32
935	Atmospheric deposition of elements and its relevance for nutrient budgets of tropical forests. <i>Biogeochemistry</i> , 2020 , 149, 175-193	3.8	17
934	Inter-individual variability in spring phenology of temperate deciduous trees depends on species, tree size and previous year autumn phenology. <i>Agricultural and Forest Meteorology</i> , 2020 , 290, 108031	5.8	18
933	Plant Secondary Compounds in Soil and Their Role in Belowground Species Interactions. <i>Trends in Ecology and Evolution</i> , 2020 , 35, 716-730	10.9	16
932	Epitaxial diamond on Ir/ SrTiO ₃ /Si (001): From sequential material characterizations to fabrication of lateral Schottky diodes. <i>Diamond and Related Materials</i> , 2020 , 105, 107768	3.5	12
931	Ecometabolomics for a Better Understanding of Plant Responses and Acclimation to Abiotic Factors Linked to Global Change. <i>Metabolites</i> , 2020 , 10,	5.6	20
930	Temporal trade-off between gymnosperm resistance and resilience increases forest sensitivity to extreme drought. <i>Nature Ecology and Evolution</i> , 2020 , 4, 1075-1083	12.3	42

929	Divergent responses of soil organic carbon to afforestation. <i>Nature Sustainability</i> , 2020 , 3, 694-700	22.1	39
928	Reply to: Nutrient scarcity cannot cause mast seeding. <i>Nature Plants</i> , 2020 , 6, 763-765	11.5	3
927	Drought is a stronger driver of soil respiration and microbial communities than nitrogen or phosphorus addition in two Mediterranean tree species. <i>Science of the Total Environment</i> , 2020 , 735, 139554	10.2	7
926	Long-term drought decreases ecosystem C and nutrient storage in a Mediterranean holm oak forest. <i>Environmental and Experimental Botany</i> , 2020 , 177, 104135	5.9	8
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919	Coping with branch excision when measuring leaf net photosynthetic rates in a lowland tropical forest. <i>Biotropica</i> , 2020 , 52, 608-615	2.3	5
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910	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. <i>Science of the Total Environment</i> , 2020 , 740, 140403	10.2	12
909	Soil thawing regulates the spring growth onset in tundra and alpine biomes. <i>Science of the Total Environment</i> , 2020 , 742, 140637	10.2	5
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905	Soil properties explain tree growth and mortality, but not biomass, across phosphorus-depleted tropical forests. <i>Scientific Reports</i> , 2020 , 10, 2302	4.9	35
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761	The large mean body size of mammalian herbivores explains the productivity paradox during the Last Glacial Maximum. <i>Nature Ecology and Evolution</i> , 2018 , 2, 640-649	12.3	25
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758	Geothermally warmed soils reveal persistent increases in the respiratory costs of soil microbes contributing to substantial C losses. <i>Biogeochemistry</i> , 2018 , 138, 245-260	3.8	6
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751	Human dissemination of genes and microorganisms in Earth's Critical Zone. <i>Global Change Biology</i> , 2018 , 24, 1488-1499	11.4	44
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747	Isotopic methods for non-destructive assessment of carbon dynamics in shrublands under long-term climate change manipulation. <i>Methods in Ecology and Evolution</i> , 2018 , 9, 866-880	7.7	2
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745	Identification and characterization of inorganic-phosphate-solubilizing bacteria from agricultural fields with a rapid isolation method. <i>AMB Express</i> , 2018 , 8, 47	4.1	25
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739	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. <i>Environmental and Experimental Botany</i> , 2018 , 152, 49-59	5.9	66
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24	Contrasting winter and summer VOC mixing ratios at a forest site in the Western Mediterranean Basin: the effect of local biogenic emissions		5
23	Fossil versus contemporary sources of fine elemental and organic carbonaceous particulate matter during the DAURE campaign in Northeast Spain		4
22	Identification and quantification of organic aerosol from cooking and other sources in Barcelona using aerosol mass spectrometer data		6
21	DO₃SE modelling of soil moisture to determine ozone flux to European forest trees		5
20	Volatile organic compounds in the Western Mediterranean Basin: urban and rural winter measurements during the DAURE campaign		2
19	Sources, transport and deposition of iron in the global atmosphere		1
18	Process based inventory of isoprenoid emissions from European forests: model comparisons, current knowledge and uncertainties		9
17	Regional detection of canopy nitrogen in Mediterranean forests using the spaceborne MERIS Terrestrial Chlorophyll Index		2
16	Can current moisture responses predict soil CO₂ efflux under altered precipitation regimes? A synthesis of manipulation experiments		2
15	Foliar photochemical processes and carbon metabolism under favourable and adverse winter conditions in a Mediterranean mixed forest, Catalonia (Spain)		2
14	The emission factor of volatile isoprenoids: caveats, model algorithms, response shapes and scaling		2
13	The emission factor of volatile isoprenoids: stress, acclimation, and developmental responses		3
12	Estimation of isoprenoid emission factors from enclosure studies: measurements, data processing, quality and standardized measurement protocols		4

11	Synthesizing greenhouse gas fluxes across nine European peatlands and shrublands [responses to climatic and environmental changes		1
10	Global Carbon Budget 2017		60
9	Global and regional phosphorus budgets in agricultural systems and their implications for phosphorus-use efficiency		2
8	Supplementary material to "Improved representation of plant functional types and physiology in the Joint UK Land Environment Simulator (JULES v4.2) using plant trait information"		3
7	A vertically discretised canopy description for ORCHIDEE (SVN r2290) and the modifications to the energy, water and carbon fluxes		5
6	Chronic and intense droughts differentially influence grassland carbon-nutrient dynamics along a natural aridity gradient. <i>Plant and Soil</i> , ¹	4.2	2
5	Half of the world's tree biodiversity is unprotected and is increasingly threatened by human activities		3
4	Global Root Traits (GRooT) Database		2
3	Successional patterns of bacterial communities and their functions in shrimp aquaculture pond water across farming phases. <i>Aquaculture Research</i> ,	1.9	1
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