

Josep Penuelas

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5848662/josep-penuelas-publications-by-citations.pdf>
Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	A large and persistent carbon sink in the world's forests. <i>Science</i> , 2011 , 333, 988-93	33.3	3950
1089	European phenological response to climate change matches the warming pattern. <i>Global Change Biology</i> , 2006 , 12, 1969-1976	11.4	1932
1088	TRY is a global database of plant traits. <i>Global Change Biology</i> , 2011 , 17, 2905-2935	11.4	1623
1087	Contributions to accelerating atmospheric CO ₂ growth from economic activity, carbon intensity, and efficiency of natural sinks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 18866-70	11.5	1490
1086	Trends in the sources and sinks of carbon dioxide. <i>Nature Geoscience</i> , 2009 , 2, 831-836	18.3	1453
1085	A narrow-waveband spectral index that tracks diurnal changes in photosynthetic efficiency. <i>Remote Sensing of Environment</i> , 1992 , 41, 35-44	13.2	1351
1084	Greening of the Earth and its drivers. <i>Nature Climate Change</i> , 2016 , 6, 791-795	21.4	1036
1083	Running to stand still: adaptation and the response of plants to rapid climate change. <i>Ecology Letters</i> , 2005 , 8, 1010-1020	10	952
1082	Temperature increase reduces global yields of major crops in four independent estimates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 9326-9331	11.5	886
1081	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
1080	Global Carbon Budget 2018. <i>Earth System Science Data</i> , 2018 , 10, 2141-2194	10.5	831
1079	Responses of terrestrial ecosystems to temperature and precipitation change: a meta-analysis of experimental manipulation. <i>Global Change Biology</i> , 2011 , 17, 927-942	11.4	829
1078	Managing forests for climate change mitigation. <i>Science</i> , 2008 , 320, 1456-7	33.3	826
1077	Contribution of semi-arid ecosystems to interannual variability of the global carbon cycle. <i>Nature</i> , 2014 , 509, 600-3	50.4	778
1076	Global Carbon Budget 2019. <i>Earth System Science Data</i> , 2019 , 11, 1783-1838	10.5	776
1075	Global Carbon Budget 2016. <i>Earth System Science Data</i> , 2016 , 8, 605-649	10.5	730
1074	Biophysical and economic limits to negative CO ₂ emissions. <i>Nature Climate Change</i> , 2016 , 6, 42-50	21.4	684

1073	Carbon cycle. The dominant role of semi-arid ecosystems in the trend and variability of the land CO ₂ sink. <i>Science</i> , 2015 , 348, 895-9	33.3	684
1072	Human-induced nitrogen-phosphorus imbalances alter natural and managed ecosystems across the globe. <i>Nature Communications</i> , 2013 , 4, 2934	17.4	679
1071	The reflectance at the 950-970 nm region as an indicator of plant water status. <i>International Journal of Remote Sensing</i> , 1993 , 14, 1887-1905	3.1	671
1070	Relationships Between NDVI, Canopy Structure, and Photosynthesis in Three Californian Vegetation Types 1995 , 5, 28-41		642
1069	Reflectance indices associated with physiological changes in nitrogen- and water-limited sunflower leaves. <i>Remote Sensing of Environment</i> , 1994 , 48, 135-146	13.2	625
1068	Visible and near-infrared reflectance techniques for diagnosing plant physiological status. <i>Trends in Plant Science</i> , 1998 , 3, 151-156	13.1	617
1067	Global Carbon Budget 2017. <i>Earth System Science Data</i> , 2018 , 10, 405-448	10.5	614
1066	Global patterns of foliar nitrogen isotopes and their relationships with climate, mycorrhizal fungi, foliar nutrient concentrations, and nitrogen availability. <i>New Phytologist</i> , 2009 , 183, 980-992	9.8	606
1065	Phenology. Responses to a warming world. <i>Science</i> , 2001 , 294, 793-5	33.3	598
1064	Widespread crown condition decline, food web disruption, and amplified tree mortality with increased climate change-type drought. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 1474-8	11.5	590
1063	Rapid growth in CO ₂ emissions after the 2008-2009 global financial crisis. <i>Nature Climate Change</i> , 2012 , 2, 2-4	21.4	582
1062	Quantifying global soil carbon losses in response to warming. <i>Nature</i> , 2016 , 540, 104-108	50.4	560
1061	Global Carbon Budget 2020. <i>Earth System Science Data</i> , 2020 , 12, 3269-3340	10.5	533
1060	Ecology. Phenology feedbacks on climate change. <i>Science</i> , 2009 , 324, 887-8	33.3	520
1059	The red edge position and shape as indicators of plant chlorophyll content, biomass and hydric status.. <i>International Journal of Remote Sensing</i> , 1994 , 15, 1459-1470	3.1	519
1058	Estimation of plant water concentration by the reflectance Water Index WI (R900/R970). <i>International Journal of Remote Sensing</i> , 1997 , 18, 2869-2875	3.1	516
1057	A global change-induced biome shift in the Montseny mountains (NE Spain). <i>Global Change Biology</i> , 2003 , 9, 131-140	11.4	498
1056	Assessment of photosynthetic radiation-use efficiency with spectral reflectance. <i>New Phytologist</i> , 1995 , 131, 291-296	9.8	487

1055	Evaluation of terrestrial carbon cycle models for their response to climate variability and to CO2 trends. <i>Global Change Biology</i> , 2013 , 19, 2117-32	11.4	481
1054	Changed plant and animal life cycles from 1952 to 2000 in the Mediterranean region. <i>Global Change Biology</i> , 2002 , 8, 531-544	11.4	475
1053	The Global Methane Budget 2000-2017. <i>Earth System Science Data</i> , 2020 , 12, 1561-1623	10.5	463
1052	BVOCs and global change. <i>Trends in Plant Science</i> , 2010 , 15, 133-44	13.1	462
1051	Rapid climate change-related growth decline at the southern range edge of <i>Fagus sylvatica</i> . <i>Global Change Biology</i> , 2006 , 12, 2163-2174	11.4	459
1050	Effects of climate extremes on the terrestrial carbon cycle: concepts, processes and potential future impacts. <i>Global Change Biology</i> , 2015 , 21, 2861-80	11.4	454
1049	Plant functional traits have globally consistent effects on competition. <i>Nature</i> , 2016 , 529, 204-7	50.4	453
1048	The application of ecological stoichiometry to plant-microbial-soil organic matter transformations. <i>Ecological Monographs</i> , 2015 , 85, 133-155	9	431
1047	Declining global warming effects on the phenology of spring leaf unfolding. <i>Nature</i> , 2015 , 526, 104-7	50.4	409
1046	The photochemical reflectance index (PRI) and the remote sensing of leaf, canopy and ecosystem radiation use efficiencies: A review and meta-analysis. <i>Remote Sensing of Environment</i> , 2011 , 115, 281-297	13.2	409
1045	Climate change and interconnected risks to sustainable development in the Mediterranean. <i>Nature Climate Change</i> , 2018 , 8, 972-980	21.4	403
1044	TRY plant trait database - enhanced coverage and open access. <i>Global Change Biology</i> , 2020 , 26, 119-188	11.4	399
1043	Evaluating Wheat Nitrogen Status with Canopy Reflectance Indices and Discriminant Analysis. <i>Crop Science</i> , 1995 , 35, 1400-1405	2.4	393
1042	The C:N:P stoichiometry of organisms and ecosystems in a changing world: A review and perspectives. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2012 , 14, 33-47	3	378
1041	Elevated CO2, litter chemistry, and decomposition: a synthesis. <i>Oecologia</i> , 2001 , 127, 153-165	2.9	369
1040	Increased water-use efficiency during the 20th century did not translate into enhanced tree growth. <i>Global Ecology and Biogeography</i> , 2011 , 20, 597-608	6.1	362
1039	Identification and quantification of organic aerosol from cooking and other sources in Barcelona using aerosol mass spectrometer data. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 1649-1665	6.8	353
1038	The human-induced imbalance between C, N and P in Earth's life system. <i>Global Change Biology</i> , 2012 , 18, 3-6	11.4	348

1037	Sensitivity of leaf size and shape to climate: global patterns and paleoclimatic applications. <i>New Phytologist</i> , 2011 , 190, 724-39	9.8	334
1036	Asymmetric effects of daytime and night-time warming on Northern Hemisphere vegetation. <i>Nature</i> , 2013 , 501, 88-92	50.4	328
1035	Environment. Tropical forests and climate policy. <i>Science</i> , 2007 , 316, 985-6	33.3	327
1034	Recent reversal in loss of global terrestrial biomass. <i>Nature Climate Change</i> , 2015 , 5, 470-474	21.4	322
1033	The altitude-for-latitude disparity in the range retractions of woody species. <i>Trends in Ecology and Evolution</i> , 2009 , 24, 694-701	10.9	322
1032	Precipitation manipulation experiments--challenges and recommendations for the future. <i>Ecology Letters</i> , 2012 , 15, 899-911	10	318
1031	Drought decreases soil enzyme activity in a Mediterranean Quercus ilex L. forest. <i>Soil Biology and Biochemistry</i> , 2005 , 37, 455-461	7.5	314
1030	Remote sensing of nitrogen and lignin in Mediterranean vegetation from AVIRIS data: Decomposing biochemical from structural signals. <i>Remote Sensing of Environment</i> , 2002 , 81, 355-364	13.2	295
1029	Remote sensing of the xanthophyll cycle and chlorophyll fluorescence in sunflower leaves and canopies. <i>Oecologia</i> , 1990 , 85, 1-7	2.9	290
1028	Complex spatiotemporal phenological shifts as a response to rainfall changes. <i>New Phytologist</i> , 2004 , 161, 837-846	9.8	282
1027	The terrestrial biosphere as a net source of greenhouse gases to the atmosphere. <i>Nature</i> , 2016 , 531, 225-8	50.4	278
1026	Evidence for a weakening relationship between interannual temperature variability and northern vegetation activity. <i>Nature Communications</i> , 2014 , 5, 5018	17.4	274
1025	Environmental change and the option value of genetic diversity. <i>Trends in Plant Science</i> , 2009 , 14, 51-8	13.1	271
1024	A comprehensive quantification of global nitrous oxide sources and sinks. <i>Nature</i> , 2020 , 586, 248-256	50.4	270
1023	Nutrient availability as the key regulator of global forest carbon balance. <i>Nature Climate Change</i> , 2014 , 4, 471-476	21.4	269
1022	Seedling survival of Mediterranean shrubland species in relation to root:shoot ratio, seed size and water and nitrogen use. <i>Functional Ecology</i> , 1999 , 13, 210-216	5.6	269
1021	Protecting climate with forests. <i>Environmental Research Letters</i> , 2008 , 3, 044006	6.2	264
1020	Photo- and antioxidative protection, and a role for salicylic acid during drought and recovery in field-grown Phillyrea angustifolia plants. <i>Planta</i> , 2003 , 217, 758-66	4.7	264

1019	Plant functional trait change across a warming tundra biome. <i>Nature</i> , 2018 , 562, 57-62	50.4	264
1018	Leaf onset in the northern hemisphere triggered by daytime temperature. <i>Nature Communications</i> , 2015 , 6, 6911	17.4	261
1017	Evidence of current impact of climate change on life: a walk from genes to the biosphere. <i>Global Change Biology</i> , 2013 , 19, 2303-38	11.4	259
1016	Can elevated CO(2) affect secondary metabolism and ecosystem function?. <i>Trends in Ecology and Evolution</i> , 1998 , 13, 20-4	10.9	240
1015	Potassium: a neglected nutrient in global change. <i>Global Ecology and Biogeography</i> , 2015 , 24, 261-275	6.1	239
1014	The elemental stoichiometry of aquatic and terrestrial ecosystems and its relationships with organismic lifestyle and ecosystem structure and function: a review and perspectives. <i>Biogeochemistry</i> , 2012 , 111, 1-39	3.8	239
1013	Remote Sensing of Biomass and Yield of Winter Wheat under Different Nitrogen Supplies. <i>Crop Science</i> , 2000 , 40, 723-731	2.4	237
1012	Isoprenoids: an evolutionary pool for photoprotection. <i>Trends in Plant Science</i> , 2005 , 10, 166-9	13.1	229
1011	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. <i>Applied Soil Ecology</i> , 2008 , 39, 223-235	5	225
1010	BVOCs: plant defense against climate warming?. <i>Trends in Plant Science</i> , 2003 , 8, 105-9	13.1	225
1009	Biogenic volatile emissions from the soil. <i>Plant, Cell and Environment</i> , 2014 , 37, 1866-91	8.4	223
1008	Genetic effects of chronic habitat fragmentation in a wind-pollinated tree. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 8096-100	11.5	220
1007	Which is a better predictor of plant traits: temperature or precipitation?. <i>Journal of Vegetation Science</i> , 2014 , 25, 1167-1180	3.1	217
1006	Drought-resistant fungi control soil organic matter decomposition and its response to temperature. <i>Global Change Biology</i> , 2011 , 17, 1475-1486	11.4	217
1005	Short-chain oxygenated VOCs: Emission and uptake by plants and atmospheric sources, sinks, and concentrations. <i>Atmospheric Environment</i> , 2007 , 41, 2477-2499	5.3	215
1004	Natural selection and climate change: temperature-linked spatial and temporal trends in gene frequency in <i>Fagus sylvatica</i> . <i>Molecular Ecology</i> , 2006 , 15, 3469-80	5.7	212
1003	Fertile forests produce biomass more efficiently. <i>Ecology Letters</i> , 2012 , 15, 520-6	10	211
1002	The Response of Soil Processes to Climate Change: Results from Manipulation Studies of Shrublands Across an Environmental Gradient. <i>Ecosystems</i> , 2004 , 7, 625	3.9	211

1001	Global trait-environment relationships of plant communities. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1906-1917	11.5	209
1000	Temperature response of soil respiration largely unaltered with experimental warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13797-13802	11.5	206
999	Deriving Water Content of Chaparral Vegetation from AVIRIS Data. <i>Remote Sensing of Environment</i> , 2000 , 74, 570-581	13.2	204
998	Novel Approaches to Study Climate Change Effects on Terrestrial Ecosystems in the Field: Drought and Passive Nighttime Warming. <i>Ecosystems</i> , 2004 , 7, 583	3.9	201
997	Migration, invasion and decline: changes in recruitment and forest structure in a warming-linked shift of European beech forest in Catalonia (NE Spain). <i>Ecography</i> , 2007 , 30, 829-837	6.5	198
996	Recent pause in the growth rate of atmospheric CO due to enhanced terrestrial carbon uptake. <i>Nature Communications</i> , 2016 , 7, 13428	17.4	195
995	The role of plants in the effects of global change on nutrient availability and stoichiometry in the plant-soil system. <i>Plant Physiology</i> , 2012 , 160, 1741-61	6.6	194
994	Seasonal patterns of terpene content and emission from seven Mediterranean woody species in field conditions. <i>American Journal of Botany</i> , 2000 , 87, 133-140	2.7	192
993	A global method for calculating plant CSR ecological strategies applied across biomes world-wide. <i>Functional Ecology</i> , 2017 , 31, 444-457	5.6	191
992	Alteration of the phenology of leaf senescence and fall in winter deciduous species by climate change: effects on nutrient proficiency. <i>Global Change Biology</i> , 2015 , 21, 1005-17	11.4	189
991	Normalized difference spectral indices for estimating photosynthetic efficiency and capacity at a canopy scale derived from hyperspectral and CO ₂ flux measurements in rice. <i>Remote Sensing of Environment</i> , 2008 , 112, 156-172	13.2	187
990	Nonintrusive Field Experiments Show Different Plant Responses to Warming and Drought Among Sites, Seasons, and Species in a North-South European Gradient. <i>Ecosystems</i> , 2004 , 7, 598	3.9	187
989	Challenges in quantifying biosphere-atmosphere exchange of nitrogen species. <i>Environmental Pollution</i> , 2007 , 150, 125-39	9.3	186
988	Response of plant species richness and primary productivity in shrublands along a north-south gradient in Europe to seven years of experimental warming and drought: reductions in primary productivity in the heat and drought year of 2003. <i>Global Change Biology</i> , 2007 , 13, 2563-2581	11.4	184
987	Effects of climatic change on the phenology of butterflies in the northwest Mediterranean Basin. <i>Global Change Biology</i> , 2003 , 9, 1494-1506	11.4	184
986	Assessing community type, plant biomass, pigment composition, and photosynthetic efficiency of aquatic vegetation from spectral reflectance. <i>Remote Sensing of Environment</i> , 1993 , 46, 110-118	13.2	184
985	Twentieth century changes of tree-ring $\delta^{13}C$ at the southern range-edge of <i>Fagus sylvatica</i> : increasing water-use efficiency does not avoid the growth decline induced by warming at low altitudes. <i>Global Change Biology</i> , 2008 , 14, 1076-1088	11.4	183
984	Global patterns of phosphatase activity in natural soils. <i>Scientific Reports</i> , 2017 , 7, 1337	4.9	179

983	Strong relationship between elemental stoichiometry and metabolome in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 4181-6	11.5	179
982	The combined effects of a long-term experimental drought and an extreme drought on the use of plant-water sources in a Mediterranean forest. <i>Global Change Biology</i> , 2015 , 21, 1213-25	11.4	176
981	Comparative field study of <i>Quercus ilex</i> and <i>Phillyrea latifolia</i> : photosynthetic response to experimental drought conditions. <i>Environmental and Experimental Botany</i> , 2003 , 50, 137-148	5.9	175
980	The Complexity of Factors Driving Volatile Organic Compound Emissions by Plants. <i>Biologia Plantarum</i> , 2001 , 44, 481-487	2.1	175
979	PRI assessment of long-term changes in carotenoids/chlorophyll ratio and short-term changes in de-epoxidation state of the xanthophyll cycle. <i>International Journal of Remote Sensing</i> , 2009 , 30, 4443-4455	2.1	174
978	Plant VOC emissions: making use of the unavoidable. <i>Trends in Ecology and Evolution</i> , 2004 , 19, 402-4	10.9	168
977	Changes in N and S Leaf Content, Stomatal Density and Specific Leaf Area of 14 Plant Species during the Last Three Centuries of CO ₂ Increase. <i>Journal of Experimental Botany</i> , 1990 , 41, 1119-1124	7	166
976	Plant-soil interactions in Mediterranean forest and shrublands: impacts of climatic change. <i>Plant and Soil</i> , 2013 , 365, 1-33	4.2	165
975	Microbial mass movements. <i>Science</i> , 2017 , 357, 1099-1100	33.3	162
974	Patterns and controls of the variability of radiation use efficiency and primary productivity across terrestrial ecosystems. <i>Global Ecology and Biogeography</i> , 2010 , 19, 253-267	6.1	158
973	Reflectance assessment of mite effects on apple trees. <i>International Journal of Remote Sensing</i> , 1995 , 16, 2727-2733	3.1	157
972	Ecological metabolomics: overview of current developments and future challenges. <i>Chemoecology</i> , 2011 , 21, 191-225	2	156
971	Drought impacts on terrestrial primary production underestimated by satellite monitoring. <i>Nature Geoscience</i> , 2019 , 12, 264-270	18.3	154
970	BioTIME: A database of biodiversity time series for the Anthropocene. <i>Global Ecology and Biogeography</i> , 2018 , 27, 760-786	6.1	153
969	Sustainability of terrestrial carbon sequestration: A case study in Duke Forest with inversion approach. <i>Global Biogeochemical Cycles</i> , 2003 , 17,	5.9	152
968	Significant contribution of combustion-related emissions to the atmospheric phosphorus budget. <i>Nature Geoscience</i> , 2015 , 8, 48-54	18.3	151
967	A remotely sensed pigment index reveals photosynthetic phenology in evergreen conifers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13087-13092	11.5	150
966	Experimental evidence of reduced diversity of seedlings due to climate modification in a Mediterranean-type community. <i>Global Change Biology</i> , 2004 , 10, 248-258	11.4	149

965	Species interactions slow warming-induced upward shifts of treelines on the Tibetan Plateau. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 4380-5	11.5	149
964	Asymmetric responses of primary productivity to precipitation extremes: A synthesis of grassland precipitation manipulation experiments. <i>Global Change Biology</i> , 2017 , 23, 4376-4385	11.4	139
963	Linking photorespiration, monoterpenes and thermotolerance in <i>Quercus</i> . <i>New Phytologist</i> , 2002 , 155, 227-237	9.8	136
962	Increase in size and nitrogen concentration enhances seedling survival in Mediterranean plantations. Insights from an ecophysiological conceptual model of plant survival. <i>New Forests</i> , 2012 , 43, 755-770	2.6	135
961	The emission factor of volatile isoprenoids: stress, acclimation, and developmental responses. <i>Biogeosciences</i> , 2010 , 7, 2203-2223	4.6	135
960	Fossil versus contemporary sources of fine elemental and organic carbonaceous particulate matter during the DAURE campaign in Northeast Spain. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 12067-12084	6.8	133
959	Air temperature optima of vegetation productivity across global biomes. <i>Nature Ecology and Evolution</i> , 2019 , 3, 772-779	12.3	128
958	Tree growth, mortality, and above-ground biomass accumulation in a holm oak forest under a five-year experimental field drought. <i>Plant Ecology</i> , 2007 , 189, 291-299	1.7	128
957	Comparative field study of spring and summer leaf gas exchange and photobiology of the mediterranean trees <i>Quercus ilex</i> and <i>Phillyrea latifolia</i> . <i>Journal of Experimental Botany</i> , 1998 , 49, 229-238	2.7	128
956	Faster returns on leaf economics and different biogeochemical niche in invasive compared with native plant species. <i>Global Change Biology</i> , 2009 , 16, 2171-2185	11.4	127
955	Drought changes phosphorus and potassium accumulation patterns in an evergreen Mediterranean forest. <i>Functional Ecology</i> , 2007 , 21, 191-201	5.6	127
954	Visible and Near-Infrared Reflectance Assessment of Salinity Effects on Barley. <i>Crop Science</i> , 1997 , 37, 198-202	2.4	126
953	Warming and drought alter soil phosphatase activity and soil P availability in a Mediterranean shrubland. <i>Plant and Soil</i> , 2006 , 289, 227-238	4.2	126
952	Relationship between photosynthetic radiation-use efficiency of barley canopies and the photochemical reflectance index (PRI). <i>Physiologia Plantarum</i> , 1996 , 96, 211-216	4.6	126
951	Nitrogen and phosphorus constrain the CO ₂ fertilization of global plant biomass. <i>Nature Climate Change</i> , 2019 , 9, 684-689	21.4	125
950	Opposite metabolic responses of shoots and roots to drought. <i>Scientific Reports</i> , 2014 , 4, 6829	4.9	124
949	Linking isoprene with plant thermotolerance, antioxidants and monoterpene emissions. <i>Plant, Cell and Environment</i> , 2005 , 28, 278-286	8.4	124
948	Estimations of isoprenoid emission capacity from enclosure studies: measurements, data processing, quality and standardized measurement protocols. <i>Biogeosciences</i> , 2011 , 8, 2209-2246	4.6	123

947	Remote estimation of carbon dioxide uptake by a Mediterranean forest. <i>Global Change Biology</i> , 2008 , 14, 2860-2867	11.4	123
946	Reflectance Indices Indicative of Changes in Water and Pigment Contents of Peanut and Wheat Leaves. <i>Photosynthetica</i> , 1999 , 36, 355-360	2.2	120
945	Global potential of biospheric carbon management for climate mitigation. <i>Nature Communications</i> , 2014 , 5, 5282	17.4	119
944	Effect of drought on diameter increment of <i>Quercus ilex</i> , <i>Phillyrea latifolia</i> , and <i>Arbutus unedo</i> in a holm oak forest of NE Spain. <i>Forest Ecology and Management</i> , 2003 , 180, 175-184	3.9	119
943	Rhizosphere microorganisms can influence the timing of plant flowering. <i>Microbiome</i> , 2018 , 6, 231	16.6	119
942	Microbial community changes in heathland soil communities along a geographical gradient: interaction with climate change manipulations. <i>Soil Biology and Biochemistry</i> , 2005 , 37, 1805-1813	7.5	118
941	Pharmaceuticals and Personal-Care Products in Plants. <i>Trends in Plant Science</i> , 2017 , 22, 194-203	13.1	117
940	The leaf-level emission factor of volatile isoprenoids: caveats, model algorithms, response shapes and scaling. <i>Biogeosciences</i> , 2010 , 7, 1809-1832	4.6	117
939	Photochemical reflectance index and leaf photosynthetic radiation-use-efficiency assessment in Mediterranean trees. <i>International Journal of Remote Sensing</i> , 1997 , 18, 2863-2868	3.1	117
938	Changes in terpene content and emission in potted Mediterranean woody plants under severe drought. <i>Canadian Journal of Botany</i> , 1998 , 76, 1366-1373		117
937	Root exudate metabolomes change under drought and show limited capacity for recovery. <i>Scientific Reports</i> , 2018 , 8, 12696	4.9	116
936	Volatile isoprenoid emissions from plastid to planet. <i>New Phytologist</i> , 2013 , 197, 49-57	9.8	116
935	Warming and drought alter C and N concentration, allocation and accumulation in a Mediterranean shrubland. <i>Global Change Biology</i> , 2008 , 14, 2304-2316	11.4	116
934	Reflectance assessment of seasonal and annual changes in biomass and CO ₂ uptake of a Mediterranean shrubland submitted to experimental warming and drought. <i>Remote Sensing of Environment</i> , 2004 , 90, 308-318	13.2	116
933	Ecophysiological responses of two Mediterranean shrubs, <i>Erica multiflora</i> and <i>Globularia alypum</i> , to experimentally drier and warmer conditions. <i>Physiologia Plantarum</i> , 2003 , 119, 231-243	4.6	116
932	Photochemical reflectance index (PRI) and remote sensing of plant CO ₂ uptake. <i>New Phytologist</i> , 2011 , 191, 596-599	9.8	114
931	Biomass burning contributions to urban aerosols in a coastal Mediterranean city. <i>Science of the Total Environment</i> , 2012 , 427-428, 175-90	10.2	113
930	Contrasting trait syndromes in angiosperms and conifers are associated with different responses of tree growth to temperature on a large scale. <i>Frontiers in Plant Science</i> , 2013 , 4, 409	6.2	112

929	Determination of As, Cd, Cu, Hg and Pb in biological samples by modern electrothermal atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010 , 65, 97-112	3.1	112
928	Opportunistic emissions of volatile isoprenoids. <i>Trends in Plant Science</i> , 2005 , 10, 420-6	13.1	112
927	Relationship between photosynthetic radiation-use efficiency of barley canopies and the photochemical reflectance index (PRI). <i>Physiologia Plantarum</i> , 1996 , 96, 211-216	4.6	112
926	Leaf and stem economics spectra drive diversity of functional plant traits in a dynamic global vegetation model. <i>Global Change Biology</i> , 2015 , 21, 2711-2725	11.4	111
925	Global soil nitrous oxide emissions since the preindustrial era estimated by an ensemble of terrestrial biosphere models: Magnitude, attribution, and uncertainty. <i>Global Change Biology</i> , 2019 , 25, 640-659	11.4	111
924	Drought-induced oxidative stress in strawberry tree (<i>Arbutus unedo</i> L.) growing in Mediterranean field conditions. <i>Plant Science</i> , 2004 , 166, 1105-1110	5.3	109
923	Weakening temperature control on the interannual variations of spring carbon uptake across northern lands. <i>Nature Climate Change</i> , 2017 , 7, 359-363	21.4	107
922	Recent global decline of CO fertilization effects on vegetation photosynthesis. <i>Science</i> , 2020 , 370, 1295-1300	33.9	107
921	Changes in nutrient concentrations of leaves and roots in response to global change factors. <i>Global Change Biology</i> , 2017 , 23, 3849-3856	11.4	106
920	Extension of the growing season increases vegetation exposure to frost. <i>Nature Communications</i> , 2018 , 9, 426	17.4	106
919	Effects of vegetation canopy and climate on seedling establishment in Mediterranean shrubland. <i>Journal of Vegetation Science</i> , 2005 , 16, 67-76	3.1	106
918	Summer soil drying exacerbated by earlier spring greening of northern vegetation. <i>Science Advances</i> , 2020 , 6, eaax0255	14.3	106
917	Antibiotic Resistomes in Plant Microbiomes. <i>Trends in Plant Science</i> , 2019 , 24, 530-541	13.1	105
916	Human population growth offsets climate-driven increase in woody vegetation in sub-Saharan Africa. <i>Nature Ecology and Evolution</i> , 2017 , 1, 81	12.3	103
915	Quantifying soil moisture impacts on light use efficiency across biomes. <i>New Phytologist</i> , 2018 , 218, 1430-1449	9.8	103
914	Recent increases in terrestrial carbon uptake at little cost to the water cycle. <i>Nature Communications</i> , 2017 , 8, 110	17.4	103
913	Mapping local and global variability in plant trait distributions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E10937-E10946	11.5	103
912	Forest management in southern China generates short term extensive carbon sequestration. <i>Nature Communications</i> , 2020 , 11, 129	17.4	102

911	Carbon and nitrogen cycles in European ecosystems respond differently to global warming. <i>Science of the Total Environment</i> , 2008 , 407, 692-7	10.2	101
910	The capacity for thermal protection of photosynthetic electron transport varies for different monoterpenes in <i>Quercus ilex</i> . <i>Plant Physiology</i> , 2005 , 139, 485-96	6.6	101
909	Global relationship of wood and leaf litter decomposability: the role of functional traits within and across plant organs. <i>Global Ecology and Biogeography</i> , 2014 , 23, 1046-1057	6.1	100
908	Gardening and urban landscaping: significant players in global change. <i>Trends in Plant Science</i> , 2008 , 13, 60-5	13.1	100
907	Leaf reflectance and photo- and antioxidant protection in field-grown summer-stressed <i>Phillyrea angustifolia</i> . Optical signals of oxidative stress?. <i>New Phytologist</i> , 2004 , 162, 115-124	9.8	100
906	Altitudinal differences in UV absorbance, UV reflectance and related morphological traits of <i>Quercus ilex</i> and <i>Rhododendron ferrugineum</i> in the Mediterranean region 1999 , 145, 157-165		100
905	Shifting from a fertilization-dominated to a warming-dominated period. <i>Nature Ecology and Evolution</i> , 2017 , 1, 1438-1445	12.3	99
904	Rhizodeposition under drought and consequences for soil communities and ecosystem resilience. <i>Plant and Soil</i> , 2016 , 409, 1-17	4.2	98
903	Dampening effects of long-term experimental drought on growth and mortality rates of a Holm oak forest. <i>Global Change Biology</i> , 2013 , 19, 3133-44	11.4	98
902	Factors affecting nutrient concentration and stoichiometry of forest trees in Catalonia (NE Spain). <i>Forest Ecology and Management</i> , 2011 , 262, 2024-2034	3.9	98
901	Climate change effects on plant-soil feedbacks and consequences for biodiversity and functioning of terrestrial ecosystems. <i>Science Advances</i> , 2019 , 5, eaaz1834	14.3	98
900	Satellite passive microwaves reveal recent climate-induced carbon losses in African drylands. <i>Nature Ecology and Evolution</i> , 2018 , 2, 827-835	12.3	97
899	Contrasting foliar responses to drought in <i>Quercus ilex</i> and <i>Phillyrea latifolia</i> . <i>Biologia Plantarum</i> , 2006 , 50, 373-382	2.1	97
898	Increasing drought decreases phosphorus availability in an evergreen Mediterranean forest. <i>Plant and Soil</i> , 2004 , 267, 367-377	4.2	97
897	sPlot: A new tool for global vegetation analyses. <i>Journal of Vegetation Science</i> , 2019 , 30, 161-186	3.1	96
896	Urban plant physiology: adaptation-mitigation strategies under permanent stress. <i>Trends in Plant Science</i> , 2015 , 20, 72-5	13.1	96
895	Photo- and antioxidative protection during summer leaf senescence in <i>Pistacia lentiscus</i> L. grown under Mediterranean field conditions. <i>Annals of Botany</i> , 2003 , 92, 385-91	4.1	96
894	Global forest carbon uptake due to nitrogen and phosphorus deposition from 1850 to 2100. <i>Global Change Biology</i> , 2017 , 23, 4854-4872	11.4	95

893	Reassessing global change research priorities in mediterranean terrestrial ecosystems: how far have we come and where do we go from here?. <i>Global Ecology and Biogeography</i> , 2015 , 24, 25-43	6.1	95
892	Daily, weekly, and seasonal time courses of VOC concentrations in a semi-urban area near Barcelona. <i>Atmospheric Environment</i> , 2006 , 40, 7752-7769	5.3	95
891	Evergreens favored by higher responsiveness to increased CO ₂ . <i>Trends in Ecology and Evolution</i> , 2011 , 26, 136-42	10.9	94
890	Leaf gas exchange and fluorescence of <i>Phillyrea latifolia</i> , <i>Pistacia lentiscus</i> and <i>Quercus ilex</i> saplings in severe drought and high temperature conditions. <i>Environmental and Experimental Botany</i> , 1998 , 39, 213-220	5.9	94
889	Comparative field study of spring and summer leaf gas exchange and photobiology of the Mediterranean trees <i>Quercus ilex</i> and <i>Phillyrea latifolia</i> . <i>Journal of Experimental Botany</i> , 1998 , 49, 229-238	7.3	94
888	Integrating the evidence for a terrestrial carbon sink caused by increasing atmospheric CO ₂ . <i>New Phytologist</i> , 2021 , 229, 2413-2445	9.8	94
887	Epitaxial graphene on cubic SiC(111)/Si(111) substrate. <i>Applied Physics Letters</i> , 2010 , 96, 191910	3.4	93
886	Plant community changes induced by experimental climate change: Seedling and adult species composition. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2009 , 11, 53-63	3	93
885	On-line screening of soil VOCs exchange responses to moisture, temperature and root presence. <i>Plant and Soil</i> , 2007 , 291, 249-261	4.2	93
884	Plant invasion is associated with higher plant-soil nutrient concentrations in nutrient-poor environments. <i>Global Change Biology</i> , 2017 , 23, 1282-1291	11.4	91
883	Effects of winter cold stress on photosynthesis and photochemical efficiency of PSII of the Mediterranean <i>Cistus albidus</i> L. and <i>Quercus ilex</i> L.. <i>Plant Ecology</i> , 2005 , 175, 179-191	1.7	90
882	Relative contribution of groundwater to plant transpiration estimated with stable isotopes. <i>Scientific Reports</i> , 2017 , 7, 10580	4.9	88
881	Determinants of species richness in generalist and specialist Mediterranean butterflies: the negative synergistic forces of climate and habitat change. <i>Ecography</i> , 2011 , 34, 353-363	6.5	88
880	Soil biota, antimicrobial resistance and planetary health. <i>Environment International</i> , 2019 , 131, 105059	12.9	86
879	Bidirectional Interaction between Phyllospheric Microbiotas and Plant Volatile Emissions. <i>Trends in Plant Science</i> , 2016 , 21, 854-860	13.1	85
878	Effects of Carbon Dioxide, Water Supply, and Seasonality on Terpene Content and Emission by <i>Rosmarinus officinalis</i> . <i>Journal of Chemical Ecology</i> , 1997 , 23, 979-993	2.7	85
877	Climate Change Affects Carbon Allocation to the Soil in Shrublands. <i>Ecosystems</i> , 2004 , 7, 650	3.9	85
876	Effects of a Severe Drought on Water and Nitrogen Use by <i>Quercus ilex</i> and <i>Phillyrea latifolia</i> . <i>Biologia Plantarum</i> , 2000 , 43, 47-53	2.1	85

875	Increased sensitivity to climate change in disturbed ecosystems. <i>Nature Communications</i> , 2015 , 6, 6682	17.4	84
874	Responses of soil nutrient concentrations and stoichiometry to different human land uses in a subtropical tidal wetland. <i>Geoderma</i> , 2014 , 232-234, 459-470	6.7	84
873	Few multiyear precipitation-reduction experiments find a shift in the productivity-precipitation relationship. <i>Global Change Biology</i> , 2016 , 22, 2570-81	11.4	84
872	Strong functional stability of soil microbial communities under semiarid Mediterranean conditions and subjected to long-term shifts in baseline precipitation. <i>Soil Biology and Biochemistry</i> , 2014 , 69, 223-233	7.5	83
871	Isotope-ratio infrared spectroscopy: a reliable tool for the investigation of plant-water sources?. <i>New Phytologist</i> , 2015 , 207, 914-27	9.8	83
870	Volatile organic compounds in the roots and rhizosphere of <i>Pinus</i> spp.. <i>Soil Biology and Biochemistry</i> , 2007 , 39, 951-960	7.5	83
869	Sap flow of three co-occurring Mediterranean woody species under varying atmospheric and soil water conditions. <i>Tree Physiology</i> , 2003 , 23, 747-58	4.2	83
868	Interannual variation of terrestrial carbon cycle: Issues and perspectives. <i>Global Change Biology</i> , 2020 , 26, 300-318	11.4	83
867	Satellite-observed pantropical carbon dynamics. <i>Nature Plants</i> , 2019 , 5, 944-951	11.5	82
866	Phosphorus accumulates faster than nitrogen globally in freshwater ecosystems under anthropogenic impacts. <i>Ecology Letters</i> , 2016 , 19, 1237-46	10	82
865	Warming differentially influences the effects of drought on stoichiometry and metabolomics in shoots and roots. <i>New Phytologist</i> , 2015 , 207, 591-603	9.8	81
864	Temporal patterns of surface ozone levels in different habitats of the North Western Mediterranean basin. <i>Atmospheric Environment</i> , 2004 , 38, 985-992	5.3	81
863	Contrasting responses of autumn-leaf senescence to daytime and night-time warming. <i>Nature Climate Change</i> , 2018 , 8, 1092-1096	21.4	80
862	Biomass production efficiency controlled by management in temperate and boreal ecosystems. <i>Nature Geoscience</i> , 2015 , 8, 843-846	18.3	79
861	Tree growth changes with climate and forest type are associated with relative allocation of nutrients, especially phosphorus, to leaves and wood. <i>Global Ecology and Biogeography</i> , 2013 , 22, 494-507	6.1	79
860	Caterpillars of <i>Euphydryas aurinia</i> (Lepidoptera: Nymphalidae) feeding on <i>Succisa pratensis</i> leaves induce large foliar emissions of methanol. <i>New Phytologist</i> , 2005 , 167, 851-7	9.8	79
859	Cell wall elasticity and Water Index (R970 nm/R900 nm) in wheat under different nitrogen availabilities. <i>International Journal of Remote Sensing</i> , 1996 , 17, 373-382	3.1	79
858	Saturation of the Terrestrial Carbon Sink 2007 , 59-78		79

857	Improved representation of plant functional types and physiology in the Joint UK Land Environment Simulator (JULES v4.2) using plant trait information. <i>Geoscientific Model Development</i> , 2016 , 9, 2415-2440	6.3	79
856	The foliar microbiome. <i>Trends in Plant Science</i> , 2014 , 19, 278-80	13.1	78
855	A representation of the phosphorus cycle for ORCHIDEE (revision 4520). <i>Geoscientific Model Development</i> , 2017 , 10, 3745-3770	6.3	78
854	Drought, warming and soil fertilization effects on leaf volatile terpene concentrations in <i>Pinus halepensis</i> and <i>Quercus ilex</i> . <i>Acta Physiologiae Plantarum</i> , 2009 , 31, 207-218	2.6	78
853	Summer season and long-term drought increase the richness of bacteria and fungi in the foliar phyllosphere of <i>Quercus ilex</i> in a mixed Mediterranean forest. <i>Plant Biology</i> , 2012 , 14, 565-75	3.7	77
852	Contrasting growth changes in two dominant species of a Mediterranean shrubland submitted to experimental drought and warming. <i>Annals of Botany</i> , 2004 , 94, 843-53	4.1	77
851	Partitioning of water and nitrogen in co-occurring Mediterranean woody shrub species of different evolutionary history. <i>Oecologia</i> , 2003 , 137, 51-61	2.9	77
850	Global trends in carbon sinks and their relationships with CO ₂ and temperature. <i>Nature Climate Change</i> , 2019 , 9, 73-79	21.4	77
849	Large-scale recruitment limitation in Mediterranean pines: the role of <i>Quercus ilex</i> and forest successional advance as key regional drivers. <i>Global Ecology and Biogeography</i> , 2014 , 23, 371-384	6.1	76
848	A review of the combination among global change factors in forests, shrublands and pastures of the Mediterranean Region: Beyond drought effects. <i>Global and Planetary Change</i> , 2017 , 148, 42-54	4.2	76
847	Responses of forest ecosystems in Europe to decreasing nitrogen deposition. <i>Environmental Pollution</i> , 2019 , 244, 980-994	9.3	76
846	Connecting the Green and Brown Worlds: Allometric and Stoichiometric Predictability of Above- and Below-Ground Networks. <i>Advances in Ecological Research</i> , 2013 , 49, 69-175	4.6	74
845	Phosphorus limitation and competitive capacities of <i>Pinus halepensis</i> and <i>Quercus ilex</i> subsp. <i>rotundifolia</i> on different soils. <i>Plant Ecology</i> , 2004 , 174, 307-319	1.7	74
844	Microbial carbon limitation: The need for integrating microorganisms into our understanding of ecosystem carbon cycling. <i>Global Change Biology</i> , 2019 , 26, 1953	11.4	74
843	Foliar elemental composition of European forest tree species associated with evolutionary traits and present environmental and competitive conditions. <i>Global Ecology and Biogeography</i> , 2015 , 24, 240-255	6.1	73
842	Process based inventory of isoprenoid emissions from European forests: model comparisons, current knowledge and uncertainties. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 4053-4076	6.8	73
841	Drought and warming induced changes in P and K concentration and accumulation in plant biomass and soil in a Mediterranean shrubland. <i>Plant and Soil</i> , 2008 , 306, 261-271	4.2	73
840	Effect of arbuscular mycorrhizal (AM) colonization on terpene emission and content of <i>Artemisia annua</i> L. <i>Plant Biology</i> , 2008 , 10, 108-22	3.7	73

839	Climate relationships of growth and establishment across the altitudinal range of <i>Fagus sylvatica</i> in the Montseny Mountains, northeast Spain. <i>Ecoscience</i> , 2007 , 14, 507-518	1.1	73
838	Phenological patterns of <i>Quercus ilex</i> , <i>Phillyrea latifolia</i> , and <i>Arbutus unedo</i> growing under a field experimental drought11 Associate Editor: Maria Luisa Martínez Vázquez.. <i>Ecoscience</i> , 2004 , 11, 263-270	1.1	73
837	Pathways for balancing CO emissions and sinks. <i>Nature Communications</i> , 2017 , 8, 14856	17.4	72
836	Vegetation baseline phenology from kilometric global LAI satellite products. <i>Remote Sensing of Environment</i> , 2016 , 178, 1-14	13.2	72
835	Coupling of ecosystem-scale plant water storage and leaf phenology observed by satellite. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1428-1435	12.3	72
834	Effects of long-term experimental night-time warming and drought on photosynthesis, Fv/Fm and stomatal conductance in the dominant species of a Mediterranean shrubland. <i>Acta Physiologiae Plantarum</i> , 2009 , 31, 729-739	2.6	72
833	On the Way towards Fourth-Generation Mobile: 3GPP LTE and LTE-Advanced. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2009 , 2009,	3.2	72
832	The physics and ecology of mining carbon dioxide from the atmosphere by ecosystems. <i>Global Change Biology</i> , 2018 , 25, 1191	11.4	72
831	Moisture-mediated responsiveness of treeline shifts to global warming in the Himalayas. <i>Global Change Biology</i> , 2018 , 24, 5549-5559	11.4	72
830	The bioelements, the elementome, and the biogeochemical niche. <i>Ecology</i> , 2019 , 100, e02652	4.6	71
829	The Global N2O Model Intercomparison Project. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 1231-1251	6.1	71
828	Disparity in elevational shifts of European trees in response to recent climate warming. <i>Global Change Biology</i> , 2013 , 19, 2490-9	11.4	71
827	Effects of allelochemicals on plant respiration and oxygen isotope fractionation by the alternative oxidase. <i>Journal of Chemical Ecology</i> , 1996 , 22, 801-5	2.7	71
826	Changes in leaf $\delta^{13}C$ of herbarium plant species during the last 3 centuries of CO2 increase. <i>Plant, Cell and Environment</i> , 1992 , 15, 485-489	8.4	71
825	Effectiveness of the photochemical reflectance index to track photosynthetic activity over a range of forest tree species and plant water statuses. <i>Functional Plant Biology</i> , 2011 , 38, 177-186	2.7	70
824	Simulated climate change provokes rapid genetic change in the Mediterranean shrub <i>Fumana thymifolia</i> . <i>Global Change Biology</i> , 2008 , 14, 637-643	11.4	70
823	Establishment of co-existing Mediterranean tree species under a varying soil moisture regime. <i>Journal of Vegetation Science</i> , 2004 , 15, 237-244	3.1	70
822	Trace element accumulation in the moss <i>Hypnum cupressiforme</i> Hedw. and the trees <i>Quercus ilex</i> L. and <i>Pinus halepensis</i> Mill. in Catalonia. <i>Chemosphere</i> , 2005 , 60, 1293-307	8.4	69

821	Trends in plant carbon concentration and plant demand for N throughout this century. <i>Oecologia</i> , 1996 , 109, 69-73	2.9	69
820	A new version of the CABLE land surface model (Subversion revision r4601) incorporating land use and land cover change, woody vegetation demography, and a novel optimisation-based approach to plant coordination of photosynthesis. <i>Geoscientific Model Development</i> , 2018 , 11, 2995-3026	6.3	69
819	Surface morphology and characterization of thin graphene films on SiC vicinal substrate. <i>Physical Review B</i> , 2009 , 79,	3.3	68
818	Floral volatile organic compounds: Between attraction and deterrence of visitors under global change. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2013 , 15, 56-67	3	67
817	Contrasting winter and summer VOC mixing ratios at a forest site in the Western Mediterranean Basin: the effect of local biogenic emissions. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 13161-13179	6.8	67
816	Comparative seasonal gas exchange and chlorophyll fluorescence of two dominant woody species in a Holm Oak Forest. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2003 , 198, 132-141	1.9	67
815	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
814	Seasonal and species-specific response of VOC emissions by Mediterranean woody plant to elevated ozone concentrations. <i>Atmospheric Environment</i> , 2002 , 36, 3931-3938	5.3	66
813	Ozone affects plant, insect, and soil microbial communities: A threat to terrestrial ecosystems and biodiversity. <i>Science Advances</i> , 2020 , 6, eabc1176	14.3	66
812	Drought enhances folivory by shifting foliar metabolomes in <i>Quercus ilex</i> trees. <i>New Phytologist</i> , 2014 , 202, 874-885	9.8	65
811	Dynamics of non-structural carbohydrates in three Mediterranean woody species following long-term experimental drought. <i>Frontiers in Plant Science</i> , 2013 , 4, 400	6.2	65
810	Sensitivity of terpene emissions to drought and fertilization in terpene-storing <i>Pinus halepensis</i> and non-storing <i>Quercus ilex</i> . <i>Physiologia Plantarum</i> , 2007 , 131, 211-25	4.6	65
809	Plasticity of leaf morphological traits, leaf nutrient content, and water capture in the Mediterranean evergreen oak <i>Quercus ilex</i> subsp. <i>ballota</i> in response to fertilization and changes in competitive conditions1 Associate Editor: Jos Ram3 Obeso.. <i>Ecoscience</i> , 2006 , 13, 258-270	1.1	65
808	A model of plant isoprene emission based on available reducing power captures responses to atmospheric CO2. <i>New Phytologist</i> , 2014 , 203, 125-39	9.8	64
807	Volatile organic compounds emissions in Norway spruce (<i>Picea abies</i>) in response to temperature changes. <i>Physiologia Plantarum</i> , 2007 , 130, 58-66	4.6	64
806	Ozone exposure induces the activation of leaf senescence-related processes and morphological and growth changes in seedlings of Mediterranean tree species. <i>Environmental Pollution</i> , 2005 , 134, 291-300	9.3	64
805	Modes of functional biodiversity control on tree productivity across the European continent. <i>Global Ecology and Biogeography</i> , 2016 , 25, 251-262	6.1	64
804	Evaluating the convergence between eddy-covariance and biometric methods for assessing carbon budgets of forests. <i>Nature Communications</i> , 2016 , 7, 13717	17.4	64

803	Foliar and soil concentrations and stoichiometry of nitrogen and phosphorous across European <i>Pinus sylvestris</i> forests: relationships with climate, N deposition and tree growth. <i>Functional Ecology</i> , 2016 , 30, 676-689	5.6	63
802	Drought advances spring growth phenology of the Mediterranean shrub <i>Erica multiflora</i> . <i>Plant Biology</i> , 2011 , 13, 252-7	3.7	63
801	Comparative photochemical and phenomorphological responses to winter stress of an evergreen (<i>Quercus ilex</i> L.) and a semi-deciduous (<i>Cistus albidus</i> L.) Mediterranean woody species. <i>Acta Oecologica</i> , 2000 , 21, 97-107	1.7	63
800	Afforestation neutralizes soil pH. <i>Nature Communications</i> , 2018 , 9, 520	17.4	62
799	Matching the phenology of Net Ecosystem Exchange and vegetation indices estimated with MODIS and FLUXNET in-situ observations. <i>Remote Sensing of Environment</i> , 2016 , 174, 290-300	13.2	62
798	Sources, transport and deposition of iron in the global atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 6247-6270	6.8	62
797	DO₃SE modelling of soil moisture to determine ozone flux to forest trees. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 5537-5562	6.8	62
796	Free-air CO ₂ enrichment of wheat: leaf flavonoid concentration throughout the growth cycle. <i>Physiologia Plantarum</i> , 1999 , 105, 423-433	4.6	62
795	Global and regional phosphorus budgets in agricultural systems and their implications for phosphorus-use efficiency. <i>Earth System Science Data</i> , 2018 , 10, 1-18	10.5	62
794	Impacts of Global Change on Mediterranean Forests and Their Services. <i>Forests</i> , 2017 , 8, 463	2.8	61
793	Changes in floral bouquets from compound-specific responses to increasing temperatures. <i>Global Change Biology</i> , 2014 , 20, 3660-9	11.4	61
792	Experimental drought reduced acid and alkaline phosphatase activity and increased organic extractable P in soil in a <i>Quercus ilex</i> Mediterranean forest. <i>European Journal of Soil Biology</i> , 2008 , 44, 509-520	2.9	61
791	Seasonal contrasting changes of foliar concentrations of terpenes and other volatile organic compound in four dominant species of a Mediterranean shrubland submitted to a field experimental drought and warming. <i>Physiologia Plantarum</i> , 2006 , 127, 632-649	4.6	61
790	Chlorophyll hormesis: Are chlorophylls major components of stress biology in higher plants?. <i>Science of the Total Environment</i> , 2020 , 726, 138637	10.2	61
789	Can current moisture responses predict soil CO ₂ efflux under altered precipitation regimes? A synthesis of manipulation experiments. <i>Biogeosciences</i> , 2014 , 11, 2991-3013	4.6	60
788	Influence of water and terpenes on flammability in some dominant Mediterranean species. <i>International Journal of Wildland Fire</i> , 2008 , 17, 274	3.2	60
787	Extensive spatial genetic structure revealed by AFLP but not SSR molecular markers in the wind-pollinated tree, <i>Fagus sylvatica</i> . <i>Molecular Ecology</i> , 2007 , 16, 925-36	5.7	60
786	Effects of an Experimental Increase of Temperature and Drought on the Photosynthetic Performance of Two Ericaceous Shrub Species Along a North-South European Gradient. <i>Ecosystems</i> , 2004 , 7, 613	3.9	60

785	Deuterium labelling of roots provides evidence of deep water access and hydraulic lift by <i>Pinus nigra</i> in a Mediterranean forest of NE Spain. <i>Environmental and Experimental Botany</i> , 2003 , 49, 201-208	5.9	60
784	Global Carbon Budget 2017		60
783	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
782	Diurnal and seasonal variations in the photosynthetic performance and water relations of two co-occurring Mediterranean shrubs, <i>Erica multiflora</i> and <i>Globularia alypum</i> . <i>Physiologia Plantarum</i> , 2003 , 118, 84-95	4.6	59
781	The global cropland-sparing potential of high-yield farming. <i>Nature Sustainability</i> , 2020 , 3, 281-289	22.1	59
780	Abundance of kinless hubs within soil microbial networks are associated with high functional potential in agricultural ecosystems. <i>Environment International</i> , 2020 , 142, 105869	12.9	58
779	Critical temperature and precipitation thresholds for the onset of xylogenesis of <i>Juniperus przewalskii</i> in a semi-arid area of the north-eastern Tibetan Plateau. <i>Annals of Botany</i> , 2018 , 121, 617-624	4.1	58
778	Long-term nitrogen deposition linked to reduced water use efficiency in forests with low phosphorus availability. <i>New Phytologist</i> , 2016 , 210, 431-42	9.8	58
777	Nitrogen nutrition and drought hardening exert opposite effects on the stress tolerance of <i>Pinus pinea</i> L. seedlings. <i>Tree Physiology</i> , 2013 , 33, 221-32	4.2	58
776	Airborne ethylene may alter antioxidant protection and reduce tolerance of holm oak to heat and drought stress. <i>Plant Physiology</i> , 2004 , 136, 2937-47; discussion 3002	6.6	58
775	Ozone degrades floral scent and reduces pollinator attraction to flowers. <i>New Phytologist</i> , 2016 , 209, 152-60	9.8	58
774	A methodology to derive global maps of leaf traits using remote sensing and climate data. <i>Remote Sensing of Environment</i> , 2018 , 218, 69-88	13.2	58
773	Satellite data as indicators of tree biomass growth and forest dieback in a Mediterranean holm oak forest. <i>Annals of Forest Science</i> , 2015 , 72, 135-144	3.1	57
772	A vertically discretised canopy description for ORCHIDEE (SVN r2290) and the modifications to the energy, water and carbon fluxes. <i>Geoscientific Model Development</i> , 2015 , 8, 2035-2065	6.3	57
771	Mycorrhizal Fungi to Alleviate Drought Stress on Plant Growth 2014 , 21-42		57
770	Short-term responses of terpene emission rates to experimental changes of PFD in <i>Pinus halepensis</i> and <i>Quercus ilex</i> in summer field conditions. <i>Environmental and Experimental Botany</i> , 1999 , 42, 61-68	5.9	57
769	Stoichiometry of potassium is largely determined by water availability and growth in Catalanian forests. <i>Functional Ecology</i> , 2012 , 26, 1077-1089	5.6	56
768	Precipitation-dependent flowering of <i>Globularia alypum</i> and <i>Erica multiflora</i> in Mediterranean shrubland under experimental drought and warming, and its inter-annual variability. <i>Annals of Botany</i> , 2008 , 102, 275-85	4.1	56

767	Plausible rice yield losses under future climate warming. <i>Nature Plants</i> , 2016 , 3, 16202	11.5	55
766	Higher plasticity in ecophysiological traits enhances the performance and invasion success of <i>Taraxacum officinale</i> (dandelion) in alpine environments. <i>Biological Invasions</i> , 2012 , 14, 21-33	2.7	55
765	Leaf mass per area ratio in <i>Quercus ilex</i> leaves under a wide range of climatic conditions. The importance of low temperatures. <i>Acta Oecologica</i> , 2007 , 31, 168-173	1.7	55
764	Experimental Evidence of Future Drier and Warmer Conditions Affecting Flowering of Two Co-occurring Mediterranean Shrubs. <i>International Journal of Plant Sciences</i> , 2005 , 166, 235-245	2.6	55
763	Effects of ozone concentrations on biogenic volatile organic compounds emission in the Mediterranean region. <i>Environmental Pollution</i> , 1999 , 105, 17-23	9.3	55
762	Affecting Factors and Recent Improvements of the Photochemical Reflectance Index (PRI) for Remotely Sensing Foliar, Canopy and Ecosystemic Radiation-Use Efficiencies. <i>Remote Sensing</i> , 2016 , 8, 677	5	55
761	Seasonal variability of foliar photosynthetic and morphological traits and drought impacts in a Mediterranean mixed forest. <i>Tree Physiology</i> , 2015 , 35, 501-20	4.2	54
760	Climate drives global soil carbon sequestration and crop yield changes under conservation agriculture. <i>Global Change Biology</i> , 2020 , 26, 3325-3335	11.4	54
759	European land CO ₂ sink influenced by NAO and East-Atlantic Pattern coupling. <i>Nature Communications</i> , 2016 , 7, 10315	17.4	54
758	Changes in DNA methylation fingerprint of <i>Quercus ilex</i> trees in response to experimental field drought simulating projected climate change. <i>Plant Biology</i> , 2014 , 16, 419-27	3.7	54
757	African crop yield reductions due to increasingly unbalanced Nitrogen and Phosphorus consumption. <i>Global Change Biology</i> , 2014 , 20, 1278-88	11.4	54
756	A unifying conceptual model for the environmental responses of isoprene emissions from plants. <i>Annals of Botany</i> , 2013 , 112, 1223-38	4.1	54
755	Species-specific drought effects on flower and fruit production in a Mediterranean holm oak forest. <i>Forestry</i> , 2007 , 80, 351-357	2.2	54
754	Nutrient-cycling mechanisms other than the direct absorption from soil may control forest structure and dynamics in poor Amazonian soils. <i>Scientific Reports</i> , 2017 , 7, 45017	4.9	53
753	Effects of steel slag application on greenhouse gas emissions and crop yield over multiple growing seasons in a subtropical paddy field in China. <i>Field Crops Research</i> , 2015 , 171, 146-156	5.5	53
752	QMEC: a tool for high-throughput quantitative assessment of microbial functional potential in C, N, P, and S biogeochemical cycling. <i>Science China Life Sciences</i> , 2018 , 61, 1451-1462	8.5	53
751	Effects of a nutrient pulse supply on nutrient status of the Mediterranean trees <i>Quercus ilex</i> subsp. <i>ballota</i> and <i>Pinus halepensis</i> on different soils and under different competitive pressure. <i>Trees - Structure and Function</i> , 2006 , 20, 619-632	2.6	53
750	Three times greater weight of daytime than of night-time temperature on leaf unfolding phenology in temperate trees. <i>New Phytologist</i> , 2016 , 212, 590-597	9.8	52

749	Asymmetric sensitivity of first flowering date to warming and cooling in alpine plants. <i>Ecology</i> , 2014 , 95, 3387-3398	4.6	52
748	Drought impact on Ca, Fe, Mg, Mo and S concentration and accumulation patterns in the plants and soil of a Mediterranean evergreen <i>Quercus ilex</i> forest. <i>Biogeochemistry</i> , 2008 , 87, 49-69	3.8	52
747	Relationship between light use efficiency and photochemical reflectance index in soybean leaves as affected by soil water content. <i>International Journal of Remote Sensing</i> , 2006 , 27, 5109-5114	3.1	52
746	Herbaria century record of increasing eutrophication in Spanish terrestrial ecosystems. <i>Global Change Biology</i> , 2001 , 7, 427-433	11.4	52
745	Seasonal emission of monoterpenes by the Mediterranean tree <i>Quercus ilex</i> in field conditions: Relations with photosynthetic rates, temperature and volatility. <i>Physiologia Plantarum</i> , 1999 , 105, 641-647	4.6	52
744	α-Cimene, a Key Floral and Foliar Volatile Involved in Multiple Interactions between Plants and Other Organisms. <i>Molecules</i> , 2017 , 22,	4.8	51
743	Genetics, phosphorus availability, and herbivore-derived induction as sources of phenotypic variation of leaf volatile terpenes in a pine species. <i>Journal of Experimental Botany</i> , 2010 , 61, 4437-47	7	51
742	Daylength helps temperate deciduous trees to leaf-out at the optimal time. <i>Global Change Biology</i> , 2019 , 25, 2410-2418	11.4	50
741	Experimental drought and warming decrease diversity and slow down post-fire succession in a Mediterranean shrubland. <i>Ecography</i> , 2009 , 32, 623-636	6.5	50
740	Carbon and nitrogen balances for six shrublands across Europe. <i>Global Biogeochemical Cycles</i> , 2009 , 23, n/a-n/a	5.9	50
739	Interannual and interseasonal soil CO ₂ efflux and VOC exchange rates in a Mediterranean holm oak forest in response to experimental drought. <i>Soil Biology and Biochemistry</i> , 2007 , 39, 2471-2484	7.5	50
738	Effect of water stress conditioning on the water relations, root growth capacity, and the nitrogen and non-structural carbohydrate concentration of <i>Pinus halepensis</i> Mill. (Aleppo pine) seedlings. <i>Annales Des Sciences Forestières</i> , 1999 , 56, 459-465		50
737	Anthropogenic global shifts in biospheric N and P concentrations and ratios and their impacts on biodiversity, ecosystem productivity, food security, and human health. <i>Global Change Biology</i> , 2020 , 26, 1962	11.4	50
736	Ecological stoichiometry of C, N, and P of invasive <i>Phragmites australis</i> and native <i>Cyperus malaccensis</i> species in the Minjiang River tidal estuarine wetlands of China. <i>Plant Ecology</i> , 2015 , 216, 809-822	1.7	49
735	Hydraulic redistribution by plants and nutrient stoichiometry: Shifts under global change. <i>Ecohydrology</i> , 2014 , 7, 1-20	2.5	49
734	Carbon-based Secondary Compounds at Elevated CO ₂ . <i>Photosynthetica</i> , 1998 , 33, 313-319	2.2	49
733	The distribution of volatile isoprenoids in the soil horizons around <i>Pinus halepensis</i> trees. <i>Soil Biology and Biochemistry</i> , 2008 , 40, 2937-2947	7.5	49
732	Effects of nutrient and water stress on leaf phenolic content of peppers and susceptibility to generalist herbivore <i>Helicoverpa armigera</i> (Hubner). <i>Oecologia</i> , 1994 , 99, 387-391	2.9	49

731	Effects of past and current drought on the composition and diversity of soil microbial communities. <i>Soil Biology and Biochemistry</i> , 2019 , 131, 28-39	7.5	49
730	Seasonally different response of photosynthetic activity to daytime and night-time warming in the Northern Hemisphere. <i>Global Change Biology</i> , 2015 , 21, 377-87	11.4	48
729	Soil Enzyme Activity in a Mediterranean Forest after Six Years of Drought. <i>Soil Science Society of America Journal</i> , 2010 , 74, 838-851	2.5	48
728	Ecological metabolomics. <i>Chemistry and Ecology</i> , 2009 , 25, 305-309	2.3	48
727	Metal pollution in Spanish terrestrial ecosystems during the twentieth century. <i>Chemosphere</i> , 2002 , 46, 501-5	8.4	48
726	Remotely-sensed detection of effects of extreme droughts on gross primary production. <i>Scientific Reports</i> , 2016 , 6, 28269	4.9	48
725	Thirsty tree roots exude more carbon. <i>Tree Physiology</i> , 2018 , 38, 690-695	4.2	47
724	Dynamics of the enhanced emissions of monoterpenes and methyl salicylate, and decreased uptake of formaldehyde, by <i>Quercus ilex</i> leaves after application of jasmonic acid. <i>New Phytologist</i> , 2006 , 169, 135-44	9.8	47
723	Continental mapping of forest ecosystem functions reveals a high but unrealised potential for forest multifunctionality. <i>Ecology Letters</i> , 2018 , 21, 31-42	10	47
722	Global Carbon Budget 2021. <i>Earth System Science Data</i> , 2022 , 14, 1917-2005	10.5	47
721	Age-Related Modulation of the Nitrogen Resorption Efficiency Response to Growth Requirements and Soil Nitrogen Availability in a Temperate Pine Plantation. <i>Ecosystems</i> , 2016 , 19, 698-709	3.9	46
720	AM fungi root colonization increases the production of essential isoprenoids vs. nonessential isoprenoids especially under drought stress conditions or after jasmonic acid application. <i>Phytochemistry</i> , 2012 , 77, 149-61	4	46
719	Invasive species' leaf traits and dissimilarity from natives shape their impact on nitrogen cycling: a meta-analysis. <i>New Phytologist</i> , 2017 , 213, 128-139	9.8	46
718	Experimental and observational studies find contrasting responses of soil nutrients to climate change. <i>ELife</i> , 2017 , 6,	8.9	46
717	Floral advertisement scent in a changing plant-pollinators market. <i>Scientific Reports</i> , 2013 , 3, 3434	4.9	46
716	Monoterpene emissions from rubber trees (<i>Hevea brasiliensis</i>) in a changing landscape and climate: chemical speciation and environmental control. <i>Global Change Biology</i> , 2007 , 13, 2270-2282	11.4	46
715	Seasonal soil and leaf CO ₂ exchange rates in a Mediterranean holm oak forest and their responses to drought conditions. <i>Atmospheric Environment</i> , 2007 , 41, 2447-2455	5.3	46
714	Global biodiversity, stoichiometry and ecosystem function responses to human-induced C-N-P imbalances. <i>Journal of Plant Physiology</i> , 2015 , 172, 82-91	3.6	45

713	Rapid changes in butterfly communities following the abandonment of grasslands: a case study. <i>Insect Conservation and Diversity</i> , 2009 , 2, 261-269	3.8	45
712	A Qualitative Ecosystem Assessment for Different Shrublands in Western Europe under Impact of Climate Change. <i>Ecosystems</i> , 2004 , 7, 662-671	3.9	45
711	Comparative field water relations of three Mediterranean shrub species co-occurring at a natural CO(2) vent. <i>Journal of Experimental Botany</i> , 2000 , 51, 1135-46	7	45
710	Human dissemination of genes and microorganisms in Earth's Critical Zone. <i>Global Change Biology</i> , 2018 , 24, 1488-1499	11.4	44
709	Spatial variability and controls over biomass stocks, carbon fluxes, and resource-use efficiencies across forest ecosystems. <i>Trees - Structure and Function</i> , 2014 , 28, 597-611	2.6	44
708	Multivariate effect gradients driving forest demographic responses in the Iberian Peninsula. <i>Forest Ecology and Management</i> , 2013 , 303, 195-209	3.9	44
707	Removal of floral microbiota reduces floral terpene emissions. <i>Scientific Reports</i> , 2014 , 4, 6727	4.9	44
706	Application of metabolomics to genotype and phenotype discrimination of birch trees grown in a long-term open-field experiment. <i>Metabolomics</i> , 2008 , 4, 39-51	4.7	44
705	Ozone pollution and ozone biomonitoring in European cities Part II. Ozone-induced plant injury and its relationship with descriptors of ozone pollution. <i>Atmospheric Environment</i> , 2006 , 40, 7437-7448	5.3	44
704	Changes in nutrient use efficiency, status and retranslocation in young post-fire regeneration <i>Pinus halepensis</i> in response to sudden N and P input, irrigation and removal of competing vegetation. <i>Trees - Structure and Function</i> , 2005 , 19, 233-250	2.6	44
703	Velocity of change in vegetation productivity over northern high latitudes. <i>Nature Ecology and Evolution</i> , 2017 , 1, 1649-1654	12.3	43
702	Urban-rural gradients reveal joint control of elevated CO and temperature on extended photosynthetic seasons. <i>Nature Ecology and Evolution</i> , 2019 , 3, 1076-1085	12.3	43
701	Contrasting impacts of continuous moderate drought and episodic severe droughts on the aboveground-biomass increment and litterfall of three coexisting Mediterranean woody species. <i>Global Change Biology</i> , 2015 , 21, 4196-209	11.4	43
700	Controlling structure and morphology of CoPt nanoparticles through dynamical or static coalescence effects. <i>Physical Review Letters</i> , 2008 , 100, 115502	7.4	43
699	Higher than expected CO fertilization inferred from leaf to global observations. <i>Global Change Biology</i> , 2020 , 26, 2390	11.4	43
698	A Return to the Wild: Root Exudates and Food Security. <i>Trends in Plant Science</i> , 2020 , 25, 14-21	13.1	43
697	Vapor-pressure deficit and extreme climatic variables limit tree growth. <i>Global Change Biology</i> , 2018 , 24, 1108-1122	11.4	43
696	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

695	Factors influencing the foliar elemental composition and stoichiometry in forest trees in Spain. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2016 , 18, 52-69	3	42
694	Probing nanoscale structural and order/disorder phase transitions of supported Co-Pt clusters under annealing. <i>Physical Review B</i> , 2010 , 82,	3.3	42
693	Is light the key factor for success of tube shelters in forest restoration plantings under Mediterranean climates?. <i>Forest Ecology and Management</i> , 2010 , 260, 610-617	3.9	42
692	Responses of the reflectance indices PRI and NDVI to experimental warming and drought in European shrublands along a north-south climatic gradient. <i>Remote Sensing of Environment</i> , 2010 , 114, 626-636	13.2	42
691	Are phenolic compounds released from the Mediterranean shrub <i>Cistus albidus</i> responsible for changes in N cycling in siliceous and calcareous soils?. <i>New Phytologist</i> , 2004 , 162, 187-195	9.8	42
690	Emission of volatile organic compounds by apple trees under spider mite attack and attraction of predatory mites. <i>Experimental and Applied Acarology</i> , 2001 , 25, 65-77	2.1	42
689	<i>Pinus Halepensis</i> and <i>Quercus Ilex</i> Terpene Emission as Affected by Temperature and Humidity. <i>Biologia Plantarum</i> , 1999 , 42, 317-320	2.1	42
688	Variability of plant nitrogen and water use in a 100-m transect of a subdesertic depression of the Ebro valley (Spain) characterized by leaf $\delta^{13}C$ and $\delta^{15}N$. <i>Acta Oecologica</i> , 1999 , 20, 119-123	1.7	42
687	Straw biochar increases the abundance of inorganic phosphate solubilizing bacterial community for better rape (<i>Brassica napus</i>) growth and phosphate uptake. <i>Science of the Total Environment</i> , 2019 , 647, 1113-1120	10.2	41
686	Atmospheric deposition, CO, and change in the land carbon sink. <i>Scientific Reports</i> , 2017 , 7, 9632	4.9	41
685	Increasing interannual and altitudinal ozone mixing ratios in the Catalan Pyrenees. <i>Atmospheric Environment</i> , 2009 , 43, 6049-6057	5.3	41
684	Changes in the onset of spring growth in shrubland species in response to experimental warming along a north-south gradient in Europe. <i>Global Ecology and Biogeography</i> , 2009 , 18, 473-484	6.1	41
683	Impact of the 2015/2016 El Niño on the terrestrial carbon cycle constrained by bottom-up and top-down approaches. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018 , 373,	5.8	41
682	Climate and taxonomy underlie different elemental concentrations and stoichiometries of forest species: the optimum "biogeochemical niche". <i>Plant Ecology</i> , 2014 , 215, 441-455	1.7	40
681	Loss of water availability and stream biodiversity under land abandonment and climate change in a Mediterranean catchment (Olzinelles, NE Spain). <i>Land Use Policy</i> , 2011 , 28, 207-218	5.6	40
680	Airborne trace element pollution in 11 European cities assessed by exposure of standardised ryegrass cultures. <i>Atmospheric Environment</i> , 2009 , 43, 329-339	5.3	40
679	Changes in leaf $\delta^{13}C$ and $\delta^{15}N$ for three Mediterranean tree species in relation to soil water availability. <i>Acta Oecologica</i> , 2008 , 34, 331-338	1.7	40
678	Surviving in a warmer world: environmental and genetic responses. <i>Climate Research</i> , 2012 , 53, 245-262	1.6	40

677	Ethnobotany, Phylogeny, and 'Omics' for Human Health and Food Security. <i>Trends in Plant Science</i> , 2017 , 22, 187-191	13.1	39
676	Divergent responses of soil organic carbon to afforestation. <i>Nature Sustainability</i> , 2020 , 3, 694-700	22.1	39
675	New feed sources key to ambitious climate targets. <i>Carbon Balance and Management</i> , 2015 , 10, 26	3.6	39
674	Ecometabolomics: optimized NMR-based method. <i>Methods in Ecology and Evolution</i> , 2013 , 4, 464-473	7.7	39
673	Chlorophyll fluorescence responses to temperature and water availability in two co-dominant Mediterranean shrub and tree species in a long-term field experiment simulating climate change. <i>Environmental and Experimental Botany</i> , 2011 , 73, 89-93	5.9	39
672	Seasonal patterns of root-surface phosphatase activities in a Mediterranean shrubland. Responses to experimental warming and drought. <i>Biology and Fertility of Soils</i> , 2007 , 43, 779-786	6.1	39
671	Ozone pollution and ozone biomonitoring in European cities. Part I: Ozone concentrations and cumulative exposure indices at urban and suburban sites. <i>Atmospheric Environment</i> , 2006 , 40, 7963-7974	5.3	39
670	Tradescantia micronucleus test indicates genotoxic potential of traffic emissions in European cities. <i>Environmental Pollution</i> , 2006 , 139, 515-22	9.3	39
669	Comparative protective strategies of <i>Cistus albidus</i> and <i>Quercus ilex</i> facing photoinhibitory winter conditions. <i>Environmental and Experimental Botany</i> , 2002 , 47, 281-289	5.9	39
668	EuroBionet: a pan-European biomonitoring network for urban air quality assessment. <i>Environmental Science and Pollution Research</i> , 2002 , 9, 199-203	5.1	39
667	Effects of water and a nutrient pulse supply on <i>Rosmarinus officinalis</i> growth, nutrient content and flowering in the field. <i>Environmental and Experimental Botany</i> , 2005 , 53, 1-11	5.9	39
666	Responses of sequential and hierarchical phenological events to warming and cooling in alpine meadows. <i>Nature Communications</i> , 2016 , 7, 12489	17.4	39
665	Shifts in the elemental composition of plants during a very severe drought. <i>Environmental and Experimental Botany</i> , 2015 , 111, 63-73	5.9	38
664	Factors Related with CH ₄ and N ₂ O Emissions from a Paddy Field: Clues for Management implications. <i>PLoS ONE</i> , 2017 , 12, e0169254	3.7	38
663	Community structures of N ₂ -fixing bacteria associated with the phyllosphere of a Holm oak forest and their response to drought. <i>Plant Biology</i> , 2014 , 16, 586-93	3.7	38
662	Comparative study of diurnal and nocturnal sap flow of <i>Quercus ilex</i> and <i>Phillyrea latifolia</i> in a Mediterranean holm oak forest in Prades (Catalonia, NE Spain). <i>Trees - Structure and Function</i> , 2012 , 26, 1651-1659	2.6	38
661	Increase in isoprene and monoterpene emissions after re-watering of droughted <i>Quercus ilex</i> seedlings. <i>Biologia Plantarum</i> , 2009 , 53, 351-354	2.1	38
660	Short-chained oxygenated VOC emissions in <i>Pinus halepensis</i> in response to changes in water availability. <i>Acta Physiologiae Plantarum</i> , 2009 , 31, 311-318	2.6	38

659	Interannual and seasonal changes in the soil exchange rates of monoterpenes and other VOCs in a Mediterranean shrubland. <i>European Journal of Soil Science</i> , 2008 , 59, 878-891	3.4	38
658	Butterflies highlight the conservation value of hay meadows highly threatened by land-use changes in a protected Mediterranean area. <i>Biological Conservation</i> , 2005 , 126, 234-246	6.2	38
657	Increasing frequency of Saharan rains over northeastern Spain and its ecological consequences. <i>Science of the Total Environment</i> , 1999 , 228, 153-156	10.2	38
656	Elevated CO ₂ effects on stomatal density of wheat and sour orange trees. <i>Journal of Experimental Botany</i> , 1994 , 45, 1665-1668	7	38
655	Enhancing the early performance of the leguminous shrub <i>Retama sphaerocarpa</i> (L.) Boiss.: fertilisation versus <i>Rhizobium</i> inoculation. <i>Plant and Soil</i> , 2002 , 240, 253-262	4.2	37
654	Ozone-induced gene expression occurs via ethylene-dependent and -independent signalling. <i>Plant Molecular Biology</i> , 2003 , 51, 599-607	4.6	37
653	Tissue-water relations of two co-occurring evergreen Mediterranean species in response to seasonal and experimental drought conditions. <i>Journal of Plant Research</i> , 2005 , 118, 263-9	2.6	37
652	Terpenoids: a plant language. <i>Trends in Ecology and Evolution</i> , 1995 , 10, 289	10.9	37
651	Sequence of plant responses to droughts of different timescales: lessons from holm oak (<i>Quercus ilex</i>) forests. <i>Plant Ecology and Diversity</i> , 2016 , 9, 321-338	2.2	37
650	Synthesizing greenhouse gas fluxes across nine European peatlands and shrublands [Responses to climatic and environmental changes. <i>Biogeosciences</i> , 2012 , 9, 3739-3755	4.6	36
649	Volatile organic compounds in the western Mediterranean basin: urban and rural winter measurements during the DAURE campaign. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 4291-4306	6.8	36
648	Potentially immortal?. <i>New Phytologist</i> , 2010 , 187, 564-7	9.8	36
647	Effects of experimental warming and drought on biomass accumulation in a Mediterranean shrubland. <i>Plant Ecology</i> , 2009 , 205, 179-191	1.7	36
646	Seasonality of monoterpene emission potentials in <i>Quercus ilex</i> and <i>Pinus pinea</i> : Implications for regional VOC emissions modeling. <i>Journal of Geophysical Research</i> , 2009 , 114,		36
645	An AOTF-based hyperspectral imaging system for field use in ecophysiological and agricultural applications. <i>International Journal of Remote Sensing</i> , 2001 , 22, 3883-3888	3.1	36
644	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
643	On the causes of trends in the seasonal amplitude of atmospheric CO ₂ . <i>Global Change Biology</i> , 2018 , 24, 608-616	11.4	35
642	A unified framework for diversity gradients: the adaptive trait continuum. <i>Global Ecology and Biogeography</i> , 2013 , 22, 6-18	6.1	35

641	Influence of anthropogenic aerosol deposition on the relationship between oceanic productivity and warming. <i>Geophysical Research Letters</i> , 2015 , 42, 10745-10754	4.9	35
640	Assessing photosynthetic radiation-use efficiency of emergent aquatic vegetation from spectral reflectance. <i>Aquatic Botany</i> , 1997 , 58, 307-315	1.8	35
639	Implications of foliar terpene content and hydration on leaf flammability of <i>Quercus ilex</i> and <i>Pinus halepensis</i> . <i>Plant Biology</i> , 2008 , 10, 123-8	3.7	35
638	Daily, weekly and seasonal relationships among VOCs, NO _x and O ₃ in a semi-urban area near Barcelona. <i>Journal of Atmospheric Chemistry</i> , 2006 , 54, 189-201	3.2	35
637	The handbook for standardized field and laboratory measurements in terrestrial climate change experiments and observational studies (ClimEx). <i>Methods in Ecology and Evolution</i> , 2020 , 11, 22-37	7.7	35
636	Increased global nitrous oxide emissions from streams and rivers in the Anthropocene. <i>Nature Climate Change</i> , 2020 , 10, 138-142	21.4	35
635	Anthropogenic-driven rapid shifts in tree distribution lead to increased dominance of broadleaf species. <i>Global Change Biology</i> , 2016 , 22, 3984-3995	11.4	35
634	The response of stocks of C, N, and P to plant invasion in the coastal wetlands of China. <i>Global Change Biology</i> , 2019 , 25, 733-743	11.4	35
633	X-ray photoelectron spectroscopy (XPS) and diffraction (XPD) study of a few layers of graphene on 6H-SiC(0001). <i>Surface Science</i> , 2013 , 615, 47-56	1.8	34
632	Leaf and stand-level carbon uptake of a Mediterranean forest estimated using the satellite-derived reflectance indices EVI and PRI. <i>International Journal of Remote Sensing</i> , 2013 , 34, 1282-1296	3.1	34
631	Solving the conundrum of plant species coexistence: water in space and time matters most. <i>New Phytologist</i> , 2011 , 189, 5-8	9.8	34
630	Formaldehyde emission and uptake by Mediterranean trees <i>Quercus ilex</i> and <i>Pinus halepensis</i> . <i>Atmospheric Environment</i> , 2008 , 42, 7907-7914	5.3	34
629	Short-term CO ₂ emissions from planted soil subject to elevated CO ₂ and simulated precipitation. <i>Applied Soil Ecology</i> , 2005 , 28, 247-257	5	34
628	Biomonitoring of tropospheric ozone phytotoxicity in rural Catalonia. <i>Atmospheric Environment</i> , 2003 , 37, 63-71	5.3	34
627	Effects of plant leachates from four boreal understorey species on soil N mineralization, and white spruce (<i>Picea glauca</i>) germination and seedling growth. <i>Annals of Botany</i> , 2005 , 95, 1247-52	4.1	34
626	A systematic global stocktake of evidence on human adaptation to climate change. <i>Nature Climate Change</i> , 2021 , 11, 989-1000	21.4	34
625	Nutrient scarcity as a selective pressure for mast seeding. <i>Nature Plants</i> , 2019 , 5, 1222-1228	11.5	34
624	Diagnosing phosphorus limitations in natural terrestrial ecosystems in carbon cycle models. <i>Earth's Future</i> , 2017 , 5, 730-749	7.9	33

623	Field-experiment constraints on the enhancement of the terrestrial carbon sink by CO ₂ fertilization. <i>Nature Geoscience</i> , 2019 , 12, 809-814	18.3	33
622	Changing nutrients, changing rivers. <i>Science</i> , 2019 , 365, 637-638	33.3	33
621	Loss of soil microbial diversity exacerbates spread of antibiotic resistance. <i>Soil Ecology Letters</i> , 2019 , 1, 3-13	2.7	33
620	Effects of sources and meteorology on particulate matter in the Western Mediterranean Basin: An overview of the DAURE campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 4978-5010	4.4	33
619	Temporal trends in the enhanced vegetation index and spring weather predict seed production in Mediterranean oaks. <i>Plant Ecology</i> , 2015 , 216, 1061-1072	1.7	33
618	Chlorophyll fluorescence responses to temperature and water availability in two co-dominant Mediterranean shrub and tree species in a long-term field experiment simulating climate change. <i>Environmental and Experimental Botany</i> , 2011 , 71, 123-127	5.9	33
617	Ground-based spectroradiometric estimation of live fine fuel moisture of Mediterranean plants. <i>Agricultural and Forest Meteorology</i> , 1998 , 90, 173-186	5.8	33
616	Temperature effect on the ordering and morphology of CoPt nanoparticles. <i>Surface Science</i> , 2008 , 602, 545-551	1.8	33
615	Contrasting effects of ozone under different water supplies in two Mediterranean tree species. <i>Atmospheric Environment</i> , 2005 , 39, 685-693	5.3	33
614	Seasonal patterns of non-terpenoid C ₆ -C ₁₀ VOC emission from seven Mediterranean woody species. <i>Chemosphere</i> , 2001 , 45, 237-44	8.4	33
613	Biomonitoring ozone phytotoxicity in eastern Spain. <i>Water, Air, and Soil Pollution</i> , 1995 , 85, 1521-1526	2.6	33
612	Rice straw incorporation affects global warming potential differently in early vs. late cropping seasons in Southeastern China. <i>Field Crops Research</i> , 2015 , 181, 42-51	5.5	32
611	Effects of enhanced UV radiation and water availability on performance, biomass production and photoprotective mechanisms of <i>Laurus nobilis</i> seedlings. <i>Environmental and Experimental Botany</i> , 2015 , 109, 264-275	5.9	32
610	Organizing principles for vegetation dynamics. <i>Nature Plants</i> , 2020 , 6, 444-453	11.5	32
609	Biogeography of species richness gradients: linking adaptive traits, demography and diversification. <i>Biological Reviews</i> , 2012 , 87, 457-79	13.5	32
608	Higher allocation to low cost chemical defenses in invasive species of Hawaii. <i>Journal of Chemical Ecology</i> , 2010 , 36, 1255-70	2.7	32
607	Airborne limonene confers limited thermotolerance to <i>Quercus ilex</i> . <i>Physiologia Plantarum</i> , 2005 , 123, 40-48	4.6	32
606	Aboveground Growth and Competition in Forest Gap Models: An Analysis for Studies of Climatic Change. <i>Climatic Change</i> , 2001 , 51, 415-447	4.5	32

605	ESTIMATION OF CANOPY PHOTOSYNTHETIC AND NONPHOTOSYNTHETIC COMPONENTS FROM SPECTRAL TRANSMITTANCE. <i>Ecology</i> , 2000 , 81, 3149-3162	4.6	32
604	Remotely measured canopy temperature of greenhouse strawberries as indicator of water status and yield under mild and very mild water stress conditions. <i>Agricultural and Forest Meteorology</i> , 1992 , 58, 63-77	5.8	32
603	The role of nutrients, productivity and climate in determining tree fruit production in European forests. <i>New Phytologist</i> , 2017 , 213, 669-679	9.8	31
602	Effects of long-term atmospheric CO2 enrichment on the mineral concentration of Citrus aurantium leaves. <i>New Phytologist</i> , 1997 , 135, 439-444	9.8	31
601	Surface ozone mixing ratio increase with altitude in a transect in the Catalan Pyrenees. <i>Atmospheric Environment</i> , 2006 , 40, 7308-7315	5.3	31
600	The Relative Sensitivity of Different Mediterranean Plant Species to Ozone Exposure. <i>Water, Air, and Soil Pollution</i> , 1999 , 116, 273-277	2.6	31
599	Shifts in plant foliar and floral metabolomes in response to the suppression of the associated microbiota. <i>BMC Plant Biology</i> , 2016 , 16, 78	5.3	31
598	Pervasive decreases in living vegetation carbon turnover time across forest climate zones. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 24662-24667 ^{11.5}		31
597	Plant community composition affects the species biogeochemical niche. <i>Ecosphere</i> , 2017 , 8, e01801	3.1	30
596	Emergent constraint on crop yield response to warmer temperature from field experiments. <i>Nature Sustainability</i> , 2020 , 3, 908-916	22.1	30
595	Rainfall manipulation experiments as simulated by terrestrial biosphere models: Where do we stand?. <i>Global Change Biology</i> , 2020 , 26, 3336-3355	11.4	30
594	Effects of climate change on leaf litter decomposition across post-fire plant regenerative groups. <i>Environmental and Experimental Botany</i> , 2012 , 77, 274-282	5.9	30
593	Field-simulated droughts affect elemental leaf stoichiometry in Mediterranean forests and shrublands. <i>Acta Oecologica</i> , 2013 , 50, 20-31	1.7	30
592	Flood regime affects soil stoichiometry and the distribution of the invasive plants in subtropical estuarine wetlands in China. <i>Catena</i> , 2015 , 128, 144-154	5.8	30
591	Photosynthetic light use efficiency from satellite sensors: From global to Mediterranean vegetation. <i>Environmental and Experimental Botany</i> , 2014 , 103, 3-11	5.9	30
590	Changes in terpene content and emission in potted Mediterranean woody plants under severe drought. <i>Canadian Journal of Botany</i> , 1998 , 76, 1366-1373		30
589	Functional traits related to seedling performance in the Mediterranean leguminous shrub Retama sphaerocarpa: Insights from a provenance, fertilization, and rhizobial inoculation study. <i>Environmental and Experimental Botany</i> , 2008 , 64, 145-154	5.9	30
588	Warming and drought change trace element bioaccumulation patterns in a Mediterranean shrubland. <i>Chemosphere</i> , 2008 , 70, 874-85	8.4	30

587	Dependence of Ozone Biomonitoring on Meteorological Conditions of Different Sites in Catalonia (N.E. Spain). <i>Environmental Monitoring and Assessment</i> , 1999 , 56, 221-224	3.1	30
586	Synchrony matters more than species richness in plant community stability at a global scale. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 24345-24351	11.5	30
585	Empirical estimates of regional carbon budgets imply reduced global soil heterotrophic respiration. <i>National Science Review</i> , 2021 , 8, nwaa145	10.8	30
584	Potassium Control of Plant Functions: Ecological and Agricultural Implications. <i>Plants</i> , 2021 , 10,	4.5	30
583	Soil microbial CNP and respiration responses to organic matter and nutrient additions: Evidence from a tropical soil incubation. <i>Soil Biology and Biochemistry</i> , 2018 , 122, 141-149	7.5	30
582	GEOCLIM: A global climatology of LAI, FAPAR, and FCOVER from VEGETATION observations for 1999-2010. <i>Remote Sensing of Environment</i> , 2015 , 166, 126-137	13.2	29
581	Trees increase their P:N ratio with size. <i>Global Ecology and Biogeography</i> , 2015 , 24, 147-156	6.1	29
580	Litter VOCs induce changes in soil microbial biomass C and N and largely increase soil CO ₂ efflux. <i>Plant and Soil</i> , 2012 , 360, 163-174	4.2	29
579	Photochemical reflectance index as an indirect estimator of foliar isoprenoid emissions at the ecosystem level. <i>Nature Communications</i> , 2013 , 4, 2604	17.4	29
578	Measurement of volatile terpene emissions in 70 dominant vascular plant species in Hawaii: aliens emit more than natives. <i>Global Ecology and Biogeography</i> , 2010 , 19, 863-874	6.1	29
577	Contrasting Species-Specific, Compound-Specific, Seasonal, and Interannual Responses of Foliar Isoprenoid Emissions to Experimental Drought in a Mediterranean Shrubland. <i>International Journal of Plant Sciences</i> , 2008 , 169, 637-645	2.6	29
576	Valuation of climate-change effects on Mediterranean shrublands 2007 , 17, 91-100		29
575	Drought changes the dynamics of trace element accumulation in a Mediterranean Quercus ilex forest. <i>Environmental Pollution</i> , 2007 , 147, 567-83	9.3	29
574	Contribution of physiological and morphological adjustments to drought resistance in two Mediterranean tree species. <i>Biologia Plantarum</i> , 2005 , 49, 551-559	2.1	29
573	Water Flow, Trophic Depletion, and Benthic Macrofauna Impoverishment in a Submarine Cave from the Western Mediterranean. <i>Marine Ecology</i> , 1989 , 10, 271-287	1.4	29
572	Agricultural land use decouples soil nutrient cycles in a subtropical riparian wetland in China. <i>Catena</i> , 2015 , 133, 171-178	5.8	28
571	Reducing uncertainties in decadal variability of the global carbon budget with multiple datasets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13104-13108	11.5	28
570	Hydrologic resilience and Amazon productivity. <i>Nature Communications</i> , 2017 , 8, 387	17.4	28

569	Predicting habitat affinities of plant species using commonly measured functional traits. <i>Journal of Vegetation Science</i> , 2017 , 28, 1082-1095	3.1	28
568	10 Years Later. <i>Advances in Ecological Research</i> , 2015 , 53, 1-53	4.6	28
567	Needle terpene concentrations and emissions of two coexisting subspecies of Scots pine attacked by the pine processionary moth (<i>Thaumetopoea pityocampa</i>). <i>Acta Physiologiae Plantarum</i> , 2013 , 35, 3047-3058	2.6	28
566	Electrothermal Atomic Absorption Spectrometry to Determine As, Cd, Cr, Cu, Hg, and Pb in Soils and Sediments: A Review and Perspectives. <i>Soil and Sediment Contamination</i> , 2011 , 20, 447-491	3.2	28
565	Effects of prolonged drought stress and nitrogen deficiency on the respiratory O ₂ uptake of bean and pepper leaves. <i>Photosynthetica</i> , 1998 , 34, 505-512	2.2	28
564	Changes in Ca, Fe, Mg, Mo, Na, and S content in a Mediterranean shrubland under warming and drought. <i>Journal of Geophysical Research</i> , 2008 , 113,		28
563	<i>Lonicera Implexa</i> leaves bearing naturally laid eggs of the specialist herbivore <i>Euphydryas Aurinia</i> have dramatically greater concentrations of iridoid glycosides than other leaves. <i>Journal of Chemical Ecology</i> , 2006 , 32, 1925-33	2.7	28
562	Carbon-based secondary and structural compounds in Mediterranean shrubs growing near a natural CO ₂ spring. <i>Global Change Biology</i> , 2002 , 8, 281-288	11.4	28
561	Land surface phenology from VEGETATION and PROBA-V data. Assessment over deciduous forests. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2020 , 84, 101974	7.3	28
560	Global root traits (GRooT) database. <i>Global Ecology and Biogeography</i> , 2021 , 30, 25-37	6.1	28
559	ORCHIDEE-SOM: modeling soil organic carbon (SOC) and dissolved organic carbon (DOC) dynamics along vertical soil profiles in Europe. <i>Geoscientific Model Development</i> , 2018 , 11, 937-957	6.3	28
558	Stoichiometry patterns of plant organ N and P in coastal herbaceous wetlands along the East China Sea: implications for biogeochemical niche. <i>Plant and Soil</i> , 2018 , 431, 273-288	4.2	27
557	Photochemical Reflectance Index (PRI) for Detecting Responses of Diurnal and Seasonal Photosynthetic Activity to Experimental Drought and Warming in a Mediterranean Shrubland. <i>Remote Sensing</i> , 2017 , 9, 1189	5	27
556	Indications of Hydraulic Lift by <i>Pinus halepensis</i> and Its Effects on the Water Relations of Neighbour Shrubs. <i>Biologia Plantarum</i> , 2003 , 46, 209-214	2.1	27
555	Nutrient-rich plants emit a less intense blend of volatile isoprenoids. <i>New Phytologist</i> , 2018 , 220, 773-784	4.8	27
554	The North Atlantic Oscillation synchronises fruit production in western European forests. <i>Ecography</i> , 2017 , 40, 864-874	6.5	26
553	Phenological responses of Icelandic subarctic grasslands to short-term and long-term natural soil warming. <i>Global Change Biology</i> , 2017 , 23, 4932-4945	11.4	26
552	Early Diagnosis of Vegetation Health From High-Resolution Hyperspectral and Thermal Imagery: Lessons Learned From Empirical Relationships and Radiative Transfer Modelling. <i>Current Forestry Reports</i> , 2019 , 5, 169-183	8	26

551	Foliar C, N, and P stoichiometry characterize successful plant ecological strategies in the Sonoran Desert. <i>Plant Ecology</i> , 2018 , 219, 775-788	1.7	26
550	Carbon and nitrogen allocation shifts in plants and soils along aridity and fertility gradients in grasslands of China. <i>Ecology and Evolution</i> , 2017 , 7, 6927-6934	2.8	26
549	Evidence for the formation of two phases during the growth of SrTiO ₃ on silicon. <i>Physical Review B</i> , 2011 , 83,	3.3	26
548	Reflectance assessment of summer ozone fumigated Mediterranean white pine seedlings. <i>Environmental and Experimental Botany</i> , 1995 , 35, 299-307	5.9	26
547	Effects of irrigation regimes on the yield and water use of strawberry. <i>Irrigation Science</i> , 1992 , 13, 45	3.1	26
546	HCO ₃ ⁻ as an Exogenous Carbon Source for Aquatic Bryophytes <i>Fontinalis antipyretica</i> and <i>Fissidens grandifrons</i> . <i>Journal of Experimental Botany</i> , 1985 , 36, 441-448	7	26
545	Geothermal ecosystems as natural climate change experiments: The ForHot research site in Iceland as a case study. <i>Icelandic Agricultural Sciences</i> , 2016 , 29, 53-71		26
544	Multi-decadal increase of forest burned area in Australia is linked to climate change. <i>Nature Communications</i> , 2021 , 12, 6921	17.4	26
543	Increasing atmospheric CO ₂ concentrations correlate with declining nutritional status of European forests. <i>Communications Biology</i> , 2020 , 3, 125	6.7	25
542	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
541	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
540	Spatial And Temporal Trends Of Organic Pollutants In Vegetation From Remote And Rural Areas. <i>Scientific Reports</i> , 2016 , 6, 25446	4.9	25
539	Recruitment patterns of four tree species along elevation gradients in Mediterranean mountains: Not only climate matters. <i>Forest Ecology and Management</i> , 2016 , 360, 287-296	3.9	25
538	Effects of extreme drought on plant nutrient uptake and resorption in rhizomatous vs bunchgrass-dominated grasslands. <i>Oecologia</i> , 2018 , 188, 633-643	2.9	25
537	Distinct Morphological, Physiological, and Biochemical Responses to Light Quality in Barley Leaves and Roots. <i>Frontiers in Plant Science</i> , 2019 , 10, 1026	6.2	25
536	Winter warming is ecologically more relevant than summer warming in a cool-temperate grassland. <i>Scientific Reports</i> , 2019 , 9, 14632	4.9	25
535	Seasonal soil VOC exchange rates in a Mediterranean holm oak forest and their responses to drought conditions. <i>Atmospheric Environment</i> , 2007 , 41, 2456-2466	5.3	25
534	Influence of the phenolic compound bearing species <i>Ledum palustre</i> on soil N cycling in a boreal hardwood forest. <i>Plant and Soil</i> , 2003 , 251, 155-166	4.2	25

533	Sustained accumulation of methyl salicylate alters antioxidant protection and reduces tolerance of holm oak to heat stress. <i>Physiologia Plantarum</i> , 2005 , 124, 353-361	4.6	25
532	Variations in the Mineral Composition of Herbarium Plant Species Collected During the Last Three Centuries. <i>Journal of Experimental Botany</i> , 1993 , 44, 1523-1525	7	25
531	Linkage between tree species richness and soil microbial diversity improves phosphorus bioavailability. <i>Functional Ecology</i> , 2019 , 33, 1549-1560	5.6	24
530	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. <i>Wetlands Ecology and Management</i> , 2015 , 23, 865-880	2.1	24
529	Photosynthesis, stomatal conductance and terpene emission response to water availability in dry and mesic Mediterranean forests. <i>Trees - Structure and Function</i> , 2016 , 30, 749-759	2.6	24
528	Diamagnetic Susceptibility and Root Growth Responses to Magnetic Fields in <i>Lens culinaris</i> , <i>Glycine soja</i> , and <i>Triticum aestivum</i> . <i>Electromagnetic Biology and Medicine</i> , 2004 , 23, 97-112	2.2	24
527	Intraspecific variability of phenolic concentrations and their responses to elevated CO ₂ in two mediterranean perennial grasses. <i>Environmental and Experimental Botany</i> , 2002 , 47, 205-216	5.9	24
526	Leaf mineral concentrations of <i>Erica arborea</i> , <i>Juniperus communis</i> and <i>Myrtus communis</i> growing in the proximity of a natural CO ₂ spring. <i>Global Change Biology</i> , 2001 , 7, 291-301	11.4	24
525	Overestimation of the effect of climatic warming on spring phenology due to misrepresentation of chilling. <i>Nature Communications</i> , 2020 , 11, 4945	17.4	24
524	Relatively stable response of fruiting stage to warming and cooling relative to other phenological events. <i>Ecology</i> , 2016 , 97, 1961-1969	4.6	24
523	Shifting Impacts of Climate Change: Long-Term Patterns of Plant Response to Elevated CO ₂ , Drought, and Warming Across Ecosystems. <i>Advances in Ecological Research</i> , 2016 , 55, 437-473	4.6	24
522	Topsoil depth substantially influences the responses to drought of the foliar metabolomes of Mediterranean forests. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2016 , 21, 41-54	3	24
521	Spatial variance of spring phenology in temperate deciduous forests is constrained by background climatic conditions. <i>Nature Communications</i> , 2019 , 10, 5388	17.4	24
520	Traditional plant functional groups explain variation in economic but not size-related traits across the tundra biome. <i>Global Ecology and Biogeography</i> , 2019 , 28, 78-95	6.1	24
519	Global diurnal and nocturnal parameters of stomatal conductance in woody plants and major crops. <i>Global Ecology and Biogeography</i> , 2018 , 27, 257-275	6.1	24
518	Seasonal patterns of terpene content and emission from seven Mediterranean woody species in field conditions. <i>American Journal of Botany</i> , 2000 , 87, 133-40	2.7	24
517	Increasing carbon discrimination rates and depth of water uptake favor the growth of Mediterranean evergreen trees in the ecotone with temperate deciduous forests. <i>Global Change Biology</i> , 2017 , 23, 5054-5068	11.4	23
516	The effects of local climate on the correlation between weather and seed production differ in two species with contrasting masting habit. <i>Agricultural and Forest Meteorology</i> , 2019 , 268, 109-115	5.8	23

515	Long-term experimental drought combined with natural extremes accelerate vegetation shift in a Mediterranean holm oak forest. <i>Environmental and Experimental Botany</i> , 2018 , 151, 1-11	5.9	23
514	No signs of meristem senescence in old Scots pine. <i>Journal of Ecology</i> , 2014 , 102, 555-565	6	23
513	Abrupt changes in the composition and function of fungal communities along an environmental gradient in the high Arctic. <i>Molecular Ecology</i> , 2017 , 26, 4798-4810	5.7	23
512	The role of nickel and titanium in the formation of ohmic contacts on p-type 4HBiC. <i>Semiconductor Science and Technology</i> , 2013 , 28, 045007	1.8	23
511	The human dimension of biodiversity changes on islands. <i>Science</i> , 2021 , 372, 488-491	33.3	23
510	Relationships between the potential production of the greenhouse gases CO ₂ , CH ₄ and N ₂ O and soil concentrations of C, N and P across 26 paddy fields in southeastern China. <i>Atmospheric Environment</i> , 2017 , 164, 458-467	5.3	22
509	Soil moisture as the key factor of atmospheric CH ₄ uptake in forest soils under environmental change. <i>Geoderma</i> , 2019 , 355, 113920	6.7	22
508	Balance between carbon gain and loss under long-term drought: impacts on foliar respiration and photosynthesis in <i>Quercus ilex</i> L. <i>Journal of Experimental Botany</i> , 2016 , 67, 821-33	7	22
507	Ozone visible symptoms and reduced root biomass in the subalpine species <i>Pinus uncinata</i> after two years of free-air ozone fumigation. <i>Environmental Pollution</i> , 2012 , 169, 250-7	9.3	22
506	Effects of phosphorus availability and genetic variation of leaf terpene content and emission rate in <i>Pinus pinaster</i> seedlings susceptible and resistant to the pine weevil, <i>Hylobius abietis</i> . <i>Plant Biology</i> , 2012 , 14 Suppl 1, 66-72	3.7	22
505	Diversification of Volatile Isoprenoid Emissions from Trees: Evolutionary and Ecological Perspectives. <i>Tree Physiology</i> , 2013 , 1-20		22
504	Exploring continental-scale stand health - N:P ratio relationships for European forests. <i>New Phytologist</i> , 2014 , 202, 422-430	9.8	22
503	Seasonal changes in the daily emission rates of terpenes by <i>Quercus ilex</i> and the atmospheric concentrations of terpenes in the natural park of Montseny, NE Spain. <i>Journal of Atmospheric Chemistry</i> , 2012 , 69, 215-230	3.2	22
502	Seasonal variations in terpene emission factors of dominant species in four ecosystems in NE Spain. <i>Atmospheric Environment</i> , 2013 , 70, 149-158	5.3	22
501	Wide variation in spatial genetic structure between natural populations of the European beech (<i>Fagus sylvatica</i>) and its implications for SGS comparability. <i>Heredity</i> , 2012 , 108, 633-9	3.6	22
500	Ethylene- and ozone-induced regulation of a grapevine resveratrol synthase gene: different responsive promoter regions. <i>Plant Physiology and Biochemistry</i> , 2002 , 40, 865-870	5.4	22
499	Developmental Instability and Gas Exchange Responses of a Heathland Shrub to Experimental Drought and Warming. <i>International Journal of Plant Sciences</i> , 2002 , 163, 959-967	2.6	22
498	Whole soil acidification and base cation reduction across subtropical China. <i>Geoderma</i> , 2020 , 361, 114107	6.7	22

497	Towards comparable assessment of the soil nutrient status across scales-Review and development of nutrient metrics. <i>Global Change Biology</i> , 2020 , 26, 392-409	11.4	22
496	Strong Induction of Minor Terpenes in Italian Cypress, <i>Cupressus sempervirens</i> , in Response to Infection by the Fungus <i>Seiridium cardinale</i> . <i>Journal of Chemical Ecology</i> , 2015 , 41, 224-43	2.7	21
495	Survival vs. growth trade-off in early recruitment challenges global warming impacts on Mediterranean mountain trees. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2015 , 17, 369-378	3.8	21
494	Metabolic responses of <i>Quercus ilex</i> seedlings to wounding analysed with nuclear magnetic resonance profiling. <i>Plant Biology</i> , 2014 , 16, 395-403	3.7	21
493	Decreased rates of terpene emissions in <i>Ornithopus compressus</i> L. and <i>Trifolium striatum</i> L. by ozone exposure and nitrogen fertilization. <i>Environmental Pollution</i> , 2014 , 194, 69-77	9.3	21
492	Soil enzymes associated with carbon and nitrogen cycling in invaded and native secondary forests of northwestern Argentina. <i>Plant and Soil</i> , 2014 , 384, 169-183	4.2	21
491	Cost-Benefit analysis of different container capacities and fertilization regimes in <i>Pinus</i> stock-type production for forest restoration in dry Mediterranean areas. <i>Ecological Engineering</i> , 2012 , 44, 210-215	3.9	21
490	Identifying the origin of atmospheric inputs of trace elements in the Prades Mountains (Catalonia) with bryophytes, lichens, and soil monitoring. <i>Environmental Monitoring and Assessment</i> , 2013 , 185, 615-629	3.1	21
489	Methanol as a signal triggering isoprenoid emissions and photosynthetic performance in <i>Quercus ilex</i> . <i>Acta Physiologiae Plantarum</i> , 2011 , 33, 2413-2422	2.6	21
488	Analysis of Decadal Time Series in Wet N Concentrations at Five Rural Sites in NE Spain. <i>Water, Air, and Soil Pollution</i> , 2010 , 207, 123-138	2.6	21
487	Monoterpene emissions from ornamental trees in urban areas: a case study of Barcelona, Spain. <i>Plant Biology</i> , 2008 , 10, 163-9	3.7	21
486	Methyl salicylate fumigation increases monoterpene emission rates. <i>Biologia Plantarum</i> , 2007 , 51, 372-376	3.6	21
485	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
484	GOLUM-CNP v1.0: a data-driven modeling of carbon, nitrogen and phosphorus cycles in major terrestrial biomes. <i>Geoscientific Model Development</i> , 2018 , 11, 3903-3928	6.3	21
483	Using research networks to create the comprehensive datasets needed to assess nutrient availability as a key determinant of terrestrial carbon cycling. <i>Environmental Research Letters</i> , 2018 , 13, 125006	6.2	21
482	Increased eutrophication and nutrient imbalances in the agricultural soil of NE Catalonia, Spain. <i>Journal of Environmental Biology</i> , 2009 , 30, 841-6	1.6	21
481	Shrubland primary production and soil respiration diverge along European climate gradient. <i>Scientific Reports</i> , 2017 , 7, 43952	4.9	20
480	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

479	Effects of seasonal and decadal warming on soil enzymatic activity in a P-deficient Mediterranean shrubland. <i>Global Change Biology</i> , 2020 , 26, 3698-3714	11.4	20
478	Spatial Variation of Soil CO ₂ , CH ₄ and N ₂ O Fluxes Across Topographical Positions in Tropical Forests of the Guiana Shield. <i>Ecosystems</i> , 2018 , 21, 1445-1458	3.9	20
477	Temperature Dependence of Soil Respiration Modulated by Thresholds in Soil Water Availability Across European Shrubland Ecosystems. <i>Ecosystems</i> , 2016 , 19, 1460-1477	3.9	20
476	Oak protein profile alterations upon root colonization by an ectomycorrhizal fungus. <i>Mycorrhiza</i> , 2017 , 27, 109-128	3.9	20
475	Morphological, biochemical and physiological traits of upper and lower canopy leaves of European beech tend to converge with increasing altitude. <i>Tree Physiology</i> , 2015 , 35, 47-60	4.2	20
474	Drought changes nutrient sources, content and stoichiometry in the bryophyte <i>Hypnum cupressiforme</i> Hedw. growing in a Mediterranean forest. <i>Journal of Bryology</i> , 2008 , 30, 59-65	1.1	20
473	Introduction of the factor of partitioning in the lithogenic enrichment factors of trace element bioaccumulation in plant tissues. <i>Environmental Monitoring and Assessment</i> , 2006 , 115, 473-98	3.1	20
472	Is there a feedback between N availability in siliceous and calcareous soils and <i>Cistus albidus</i> leaf chemical composition?. <i>Oecologia</i> , 2003 , 136, 183-92	2.9	20
471	Decreased mushroom production in a holm oak forest in response to an experimental drought. <i>Forestry</i> , 2005 , 78, 279-283	2.2	20
470	Actual and potential dark respiration rates and different electron transport pathways in freshwater aquatic plants. <i>Aquatic Botany</i> , 1988 , 30, 353-362	1.8	20
469	A systemic overreaction to years versus decades of warming in a subarctic grassland ecosystem. <i>Nature Ecology and Evolution</i> , 2020 , 4, 101-108	12.3	20
468	Ecosystem structural changes controlled by altered rainfall climatology in tropical savannas. <i>Nature Communications</i> , 2019 , 10, 671	17.4	20
467	Species selection under long-term experimental warming and drought explained by climatic distributions. <i>New Phytologist</i> , 2018 , 217, 1494-1506	9.8	20
466	Potential of Photochemical Reflectance Index for Indicating Photochemistry and Light Use Efficiency in Leaves of European Beech and Norway Spruce Trees. <i>Remote Sensing</i> , 2018 , 10, 1202	5	20
465	Leaves of isoprene-emitting tobacco plants maintain PSII stability at high temperatures. <i>New Phytologist</i> , 2019 , 223, 1307-1318	9.8	19
464	Global plant trait relationships extend to the climatic extremes of the tundra biome. <i>Nature Communications</i> , 2020 , 11, 1351	17.4	19
463	Thresholds in decoupled soil-plant elements under changing climatic conditions. <i>Plant and Soil</i> , 2016 , 409, 159-173	4.2	19
462	Robustness of trait connections across environmental gradients and growth forms. <i>Global Ecology and Biogeography</i> , 2019 , 28, 1806-1826	6.1	19

461	Effect of experimentally induced climate change on the seed bank of a Mediterranean shrubland. <i>Journal of Vegetation Science</i> , 2012 , 23, 280-291	3.1	19
460	Evaluation of Tobacco Cultivars as Bioindicators and Biomonitorers of Ozone Phytotoxic Levels in Catalonia. <i>Water, Air, and Soil Pollution</i> , 1998 , 107, 347-365	2.6	19
459	The consecutive disparity index, D: a measure of temporal variability in ecological studies. <i>Ecosphere</i> , 2018 , 9, e02527	3.1	19
458	Effect of simulated acid rain on CO ₂ , CH ₄ and NO fluxes and rice productivity in a subtropical Chinese paddy field. <i>Environmental Pollution</i> , 2018 , 243, 1196-1205	9.3	19
457	Shift in community structure in an early-successional Mediterranean shrubland driven by long-term experimental warming and drought and natural extreme droughts. <i>Global Change Biology</i> , 2017 , 23, 4267-4279	11.4	18
456	Climatic Warming Increases Spatial Synchrony in Spring Vegetation Phenology Across the Northern Hemisphere. <i>Geophysical Research Letters</i> , 2019 , 46, 1641-1650	4.9	18
455	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
454	Dynamics of phosphorus speciation and the phoD phosphatase gene community in the rhizosphere and bulk soil along an estuarine freshwater-oligohaline gradient. <i>Geoderma</i> , 2020 , 365, 114236	6.7	18
453	Physiological and antioxidant responses of <i>Quercus ilex</i> to drought in two different seasons. <i>Plant Biosystems</i> , 2014 , 148, 268-278	1.6	18
452	Foliar CO ₂ in a holm oak forest subjected to 15 years of climate change simulation. <i>Plant Science</i> , 2014 , 226, 101-7	5.3	18
451	Reproductive output in Mediterranean shrubs under climate change experimentally induced by drought and warming. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2013 , 15, 319-327	3	18
450	Reduced tree health and seedling production in fragmented <i>Fagus sylvatica</i> forest patches in the Montseny Mountains (NE Spain). <i>Forest Ecology and Management</i> , 2011 , 261, 2029-2037	3.9	18
449	Species-specific, seasonal, inter-annual, and historically-accumulated changes in foliar terpene emission rates in <i>Phillyrea latifolia</i> and <i>Quercus ilex</i> submitted to rain exclusion in the Prades Mountains (Catalonia). <i>Russian Journal of Plant Physiology</i> , 2011 , 58, 126-132	1.6	18
448	Effects of nursery shading on seedling quality and post-planting performance in two Mediterranean species with contrasting shade tolerance. <i>New Forests</i> , 2009 , 38, 295-308	2.6	18
447	Heteroepitaxy of SrTiO ₃ thin films on Si (001) using different growth strategies: Toward substratelike quality. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011 , 29, 041207	1.3	18
446	Assessing forest structure and function from spectral transmittance measurements: a case study in a Mediterranean holm oak forest. <i>Tree Physiology</i> , 2005 , 25, 67-74	4.2	18
445	The effects of nutrient availability and removal of competing vegetation on resprouter capacity and nutrient accumulation in the shrub <i>Erica multiflora</i> . <i>Acta Oecologica</i> , 2006 , 29, 221-232	1.7	18
444	Climate warming increases spring phenological differences among temperate trees. <i>Global Change Biology</i> , 2020 , 26, 5979-5987	11.4	18

443	Similar local, but different systemic, metabolomic responses of closely related pine subspecies to folivory by caterpillars of the processionary moth. <i>Plant Biology</i> , 2016 , 18, 484-94	3.7	18
442	Responses to soil pH gradients of inorganic phosphate solubilizing bacteria community. <i>Scientific Reports</i> , 2019 , 9, 25	4.9	18
441	Atmospheric deposition of elements and its relevance for nutrient budgets of tropical forests. <i>Biogeochemistry</i> , 2020 , 149, 175-193	3.8	17
440	Close and distant: Contrasting the metabolism of two closely related subspecies of Scots pine under the effects of folivory and summer drought. <i>Ecology and Evolution</i> , 2017 , 7, 8976-8988	2.8	17
439	Spectral reflectance of multispecies herbaceous and moss canopies in the boreal forest understory and open field. <i>Canadian Journal of Remote Sensing</i> , 2009 , 35, 474-485	1.8	17
438	A deficiency in salicylic acid alters isoprenoid accumulation in water-stressed NahG transgenic Arabidopsis plants. <i>Plant Science</i> , 2007 , 172, 756-762	5.3	17
437	Using plant biomonitors and flux modelling to develop O ₃ dose-response relationships in Catalonia. <i>Environmental Pollution</i> , 2005 , 134, 145-51	9.3	17
436	Nitrogen and Carbon Concentrations, and Stable Isotope Ratios in Mediterranean Shrubs Growing in the Proximity of a CO ₂ spring. <i>Biologia Plantarum</i> , 2003 , 46, 411-418	2.1	17
435	Stem Mortality and Forest Dieback in a 20-Years Experimental Drought in a Mediterranean Holm Oak Forest. <i>Frontiers in Forests and Global Change</i> , 2020 , 2,	3.7	17
434	Global Change and Forest Disturbances in the Mediterranean Basin: Breakthroughs, Knowledge Gaps, and Recommendations. <i>Forests</i> , 2021 , 12, 603	2.8	17
433	Nutrient availability alters the correlation between spring leaf-out and autumn leaf senescence dates. <i>Tree Physiology</i> , 2019 , 39, 1277-1284	4.2	16
432	Pollination mode determines floral scent. <i>Biochemical Systematics and Ecology</i> , 2015 , 61, 44-53	1.4	16
431	Parametric investigation of the formation of epitaxial Ti ₃ SiC ₂ on 4H-SiC from Al-Ti annealing. <i>Applied Surface Science</i> , 2015 , 347, 186-192	6.7	16
430	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
429	How Should Forests Be Characterized in Regard to Human Health? Evidence from Existing Literature. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	16
428	The shift of phosphorus transfers in global fisheries and aquaculture. <i>Nature Communications</i> , 2020 , 11, 355	17.4	16
427	Functional diversification within bacterial lineages promotes wide functional overlapping between taxonomic groups in a Mediterranean forest soil. <i>FEMS Microbiology Ecology</i> , 2014 , 90, 54-67	4.3	16
426	LaAlO ₃ /Si capacitors: Comparison of different molecular beam deposition conditions and their impact on electrical properties. <i>Journal of Applied Physics</i> , 2013 , 113, 034106	2.5	16

425	Changes in water content and distribution in <i>Quercus ilex</i> leaves during progressive drought assessed by in vivo 1H magnetic resonance imaging. <i>BMC Plant Biology</i> , 2010 , 10, 188	5.3	16
424	Females of the specialist butterfly <i>Euphydryas aurinia</i> (Lepidoptera: Nymphalinae: Melitaeini) select the greenest leaves of <i>Lonicera implexa</i> (Caprifoliaceae) for oviposition. <i>European Journal of Entomology</i> , 2006 , 103, 569-574		16
423	Residual chlorine disrupts the microbial communities and spreads antibiotic resistance in freshwater. <i>Journal of Hazardous Materials</i> , 2022 , 423, 127152	12.8	16
422	Regime shifts of Mediterranean forest carbon uptake and reduced resilience driven by multidecadal ocean surface temperatures. <i>Global Change Biology</i> , 2019 , 25, 2825-2840	11.4	15
421	Automatic high-frequency measurements of full soil greenhouse gas fluxes in a tropical forest. <i>Biogeosciences</i> , 2019 , 16, 785-796	4.6	15
420	Timeline of autumn phenology in temperate deciduous trees. <i>Tree Physiology</i> , 2020 , 40, 1001-1013	4.2	15
419	Changes in the environmental microbiome in the Anthropocene. <i>Global Change Biology</i> , 2020 , 26, 3175-3177	11.7	15
418	Patterns and environmental drivers of greenhouse gas fluxes in the coastal wetlands of China: A systematic review and synthesis. <i>Environmental Research</i> , 2020 , 186, 109576	7.9	15
417	Assessment of the Response of Photosynthetic Activity of Mediterranean Evergreen Oaks to Enhanced Drought Stress and Recovery by Using PRI and R690/R630. <i>Forests</i> , 2017 , 8, 386	2.8	15
416	Soil Methane Production, Anaerobic and Aerobic Oxidation in Porewater of Wetland Soils of the Minjiang River Estuarine, China. <i>Wetlands</i> , 2018 , 38, 627-640	1.7	15
415	Dissimilatory Nitrate/Nitrite Reduction Processes in River Sediments Across Climatic Gradient: Influences of Biogeochemical Controls and Climatic Temperature Regime. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 2305-2320	3.7	15
414	Effects of UV radiation and water limitation on the volatile terpene emission rates, photosynthesis rates, and stomatal conductance in four Mediterranean species. <i>Acta Physiologiae Plantarum</i> , 2012 , 34, 757-769	2.6	15
413	Absence of soil frost affects plant-soil interactions in temperate grasslands. <i>Plant and Soil</i> , 2013 , 371, 559-572	4.2	15
412	The Fluctuation Niche in Plants. <i>International Journal of Ecology</i> , 2009 , 2009, 1-5	1.9	15
411	Real-time icosahedral to fcc structure transition during CoPt nanoparticles formation. <i>European Physical Journal: Special Topics</i> , 2009 , 167, 19-25	2.3	15
410	Seasonal photosynthetic and respiratory responses of <i>Ruppia cirrhosa</i> (Petagna) Grande to changes in light and temperature. <i>Archiv Für Hydrobiologie</i> , 1993 , 129, 221-230		15
409	Trends in soil solution dissolved organic carbon (DOC) concentrations across European forests. <i>Biogeosciences</i> , 2016 , 13, 5567-5585	4.6	15
408	Organic Cultivation of Jasmine and Tea Increases Carbon Sequestration by Changing Plant and Soil Stoichiometry. <i>Agronomy Journal</i> , 2016 , 108, 1636-1648	2.2	15

407	Are the metabolomic responses to folivory of closely related plant species linked to macroevolutionary and plant-folivore coevolutionary processes?. <i>Ecology and Evolution</i> , 2016 , 6, 4372-86 ^{2.8}	15
406	Physiological adjustments of a Mediterranean shrub to long-term experimental warming and drought treatments. <i>Plant Science</i> , 2016 , 252, 53-61	5.3 15
405	Cyanobacterial blooms contribute to the diversity of antibiotic-resistance genes in aquatic ecosystems. <i>Communications Biology</i> , 2020 , 3, 737	6.7 14
404	Impact of Plant Invasion and Increasing Floods on Total Soil Phosphorus and its Fractions in the Minjiang River Estuarine Wetlands, China. <i>Wetlands</i> , 2016 , 36, 21-36	1.7 14
403	Contrasting effects of CO ₂ fertilization, land-use change and warming on seasonal amplitude of Northern Hemisphere CO ₂ exchange. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 12361-12375	6.8 14
402	Fertilization regime interacts with fall temperature in the nursery to determine the frost and drought tolerance of the Mediterranean oak <i>Quercus ilex</i> subsp. <i>ballota</i> . <i>Forest Ecology and Management</i> , 2014 , 331, 50-59	3.9 14
401	Foliar mono- and sesquiterpene contents in relation to leaf economic spectrum in native and alien species in Oahu (Hawai'i). <i>Journal of Chemical Ecology</i> , 2010 , 36, 210-26	2.7 14
400	Pigment and morphological response to emersion and immersion of some aquatic and terrestrial mosses in N.E. Spain. <i>Journal of Bryology</i> , 1984 , 13, 115-128	1.1 14
399	Daily CO Emission Reduction Indicates the Control of Activities to Contain COVID-19 in China. <i>Innovation(China)</i> , 2020 , 1, 100062	17.8 14
398	Deciphering the Biotic and Climatic Factors That Influence Floral Scents: A Systematic Review of Floral Volatile Emissions. <i>Frontiers in Plant Science</i> , 2020 , 11, 1154	6.2 14
397	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
396	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
395	Phenotypic biomarkers of climatic impacts on declining insect populations: A key role for decadal drought, thermal buffering and amplification effects and host plant dynamics. <i>Journal of Animal Ecology</i> , 2019 , 88, 376-391	4.7 14
394	Empirical support for the biogeochemical niche hypothesis in forest trees. <i>Nature Ecology and Evolution</i> , 2021 , 5, 184-194	12.3 14
393	Nutrient stoichiometry and land use rather than species richness determine plant functional diversity. <i>Ecology and Evolution</i> , 2018 , 8, 601-616	2.8 14
392	Assessment of global health risk of antibiotic resistance genes.. <i>Nature Communications</i> , 2022 , 13, 1553	17.4 14
391	Coupled carbon and nitrogen losses in response to seven years of chronic warming in subarctic soils. <i>Soil Biology and Biochemistry</i> , 2019 , 134, 152-161	7.5 13
390	Different effects of alpine woody plant expansion on domestic and wild ungulates. <i>Global Change Biology</i> , 2019 , 25, 1808-1819	11.4 13

389	Higher capability of C3 than C4 plants to use nitrogen inferred from nitrogen stable isotopes along an aridity gradient. <i>Plant and Soil</i> , 2018 , 428, 93-103	4.2	13
388	Typhoon enhancement of N and P release from litter and changes in the litter N:P ratio in a subtropical tidal wetland. <i>Environmental Research Letters</i> , 2016 , 11, 014003	6.2	13
387	Remote sensing of atmospheric biogenic volatile organic compounds (BVOCs) via satellite-based formaldehyde vertical column assessments. <i>International Journal of Remote Sensing</i> , 2014 , 35, 7519-7542	3.1	13
386	Chemical cues involved in the attraction of the oligolectic bee <i>Hoplitis adunca</i> to its host plant <i>Echium vulgare</i> . <i>Biochemical Systematics and Ecology</i> , 2011 , 39, 498-508	1.4	13
385	Carbon Isotope Composition, Macronutrient Concentrations, and Carboxylating Enzymes in Relation to the Growth of <i>Pinus halepensis</i> Mill. When Subject to Ozone Stress. <i>Water, Air, and Soil Pollution</i> , 2011 , 214, 587-598	2.6	13
384	Direct growth of InAsP/InP quantum well heterostructures on Si using crystalline SrTiO ₃ /Si templates. <i>Applied Physics Letters</i> , 2010 , 97, 201908	3.4	13
383	Net ecosystem exchange and whole plant isoprenoid emissions by a mediterranean shrubland exposed to experimental climate change. <i>Russian Journal of Plant Physiology</i> , 2009 , 56, 29-37	1.6	13
382	The role of frass and cocoon volatiles in host location by <i>Monodontomerus aeneus</i> , a parasitoid of Megachilid solitary bees. <i>Environmental Entomology</i> , 2011 , 40, 126-31	2.1	13
381	Climate change and peak oil: the urgent need for a transition to a non-carbon-emitting society. <i>Ambio</i> , 2010 , 39, 85-90	6.5	13
380	Influence of intra- and inter-specific Interference on Terpene Emission by <i>Pinus Halepensis</i> and <i>Quercus Ilex</i> Seedlings. <i>Biologia Plantarum</i> , 1998 , 41, 139-143	2.1	13
379	An increasingly scented world. <i>New Phytologist</i> , 2008 , 180, 735-8	9.8	13
378	Chemical and structural aspects of CoPt silicide nanostructures grown on Si(100). <i>Journal of Applied Physics</i> , 2006 , 100, 124310	2.5	13
377	Amazonian biogenic volatile organic compounds under global change. <i>Global Change Biology</i> , 2020 , 26, 4722-4751	11.4	13
376	Functional Resilience against Climate-Driven Extinctions - Comparing the Functional Diversity of European and North American Tree Floras. <i>PLoS ONE</i> , 2016 , 11, e0148607	3.7	13
375	A new paradigm of quantifying ecosystem stress through chemical signatures. <i>Ecosphere</i> , 2016 , 7, e015591	3.1	13
374	Advances in hyperspectral remote sensing of vegetation traits and functions. <i>Remote Sensing of Environment</i> , 2021 , 252, 112121	13.2	13
373	Emerging negative impact of warming on summer carbon uptake in northern ecosystems. <i>Nature Communications</i> , 2018 , 9, 5391	17.4	13
372	Relationships among floral VOC emissions, floral rewards and visits of pollinators in five plant species of a Mediterranean shrubland. <i>Plant Ecology and Evolution</i> , 2015 , 148, 90-99	1.6	12

371	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
370	Human Breathable Air in a Mediterranean Forest: Characterization of Monoterpene Concentrations under the Canopy. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	12
369	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
368	Recent Changes in Global Photosynthesis and Terrestrial Ecosystem Respiration Constrained From Multiple Observations. <i>Geophysical Research Letters</i> , 2018 , 45, 1058-1068	4.9	12
367	Amendment with industrial and agricultural wastes reduces surface-water nutrient loss and storage of dissolved greenhouse gases in a subtropical paddy field. <i>Agriculture, Ecosystems and Environment</i> , 2016 , 231, 296-303	5.7	12
366	Shortened temperature-relevant period of spring leaf-out in temperate-zone trees. <i>Global Change Biology</i> , 2019 , 25, 4282-4290	11.4	12
365	Volatile isoprenoid emission potentials are correlated with essential isoprenoid concentrations in five plant species. <i>Acta Physiologiae Plantarum</i> , 2013 , 35, 3109-3125	2.6	12
364	Variations in functional diversity in snowbed plant communities determining snowbed continuity. <i>Plant Ecology</i> , 2015 , 216, 1257-1274	1.7	12
363	Physiological and antioxidant responses of Erica multiflora to drought and warming through different seasons. <i>Plant Ecology</i> , 2012 , 213, 649-661	1.7	12
362	Annual and seasonal changes in foliar terpene content and emission rates in Cistus albidus L. submitted to soil drought in Prades forest (Catalonia, NE Spain). <i>Acta Physiologiae Plantarum</i> , 2010 , 32, 387-394	2.6	12
361	Changes in monoterpene emission rates of Quercus ilex infested by aphids tended by native or invasive Lasius ant species. <i>Journal of Chemical Ecology</i> , 2010 , 36, 689-98	2.7	12
360	XMCD studies of Co and CoPt nanoparticles prepared by vapour deposition. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, 2417-2419	2.8	12
359	Effects of Ethylene diurea as a protective antiozonant on beans (Phaseolus vulgaris cv Lit) exposed to different tropospheric ozone doses in Catalonia (NE Spain). <i>Water, Air, and Soil Pollution</i> , 2000 , 117, 263-271	2.6	12
358	Accelerated rate of vegetation green-up related to warming at northern high latitudes. <i>Global Change Biology</i> , 2020 , 26, 6190-6202	11.4	12
357	Is forest fecundity resistant to drought? Results from an 18-yr rainfall-reduction experiment. <i>New Phytologist</i> , 2020 , 227, 1073-1080	9.8	12
356	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. <i>Estuarine, Coastal and Shelf Science</i> , 2018 , 215, 172-184	2.9	12
355	Springtime ecosystem-scale monoterpene fluxes from Mediterranean pine forests across a precipitation gradient. <i>Agricultural and Forest Meteorology</i> , 2017 , 237-238, 150-159	5.8	11
354	Nutrient scarcity strengthens soil fauna control over leaf litter decomposition in tropical rainforests. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019 , 286, 20191300	4.4	11

353	Weather and trade-offs between growth and reproduction regulate fruit production in European forests. <i>Agricultural and Forest Meteorology</i> , 2019 , 279, 107711	5.8	11
352	Enhanced emissions of floral volatiles by <i>Diplotaxis erucoides</i> (L.) in response to folivory and florivory by <i>Pieris brassicae</i> (L.). <i>Biochemical Systematics and Ecology</i> , 2015 , 63, 51-58	1.4	11
351	Assessing the reliability of predicted plant trait distributions at the global scale. <i>Global Ecology and Biogeography</i> , 2020 , 29, 1034-1051	6.1	11
350	Nitrogen reduction processes in paddy soils across climatic gradients: Key controlling factors and environmental implications. <i>Geoderma</i> , 2020 , 368, 114275	6.7	11
349	Storage and release of nutrients during litter decomposition for native and invasive species under different flooding intensities in a Chinese wetland. <i>Aquatic Botany</i> , 2018 , 149, 5-16	1.8	11
348	Trophic transfer from aquatic to terrestrial ecosystems: a test of the biogeochemical niche hypothesis. <i>Ecosphere</i> , 2018 , 9, e02338	3.1	11
347	Seasonal and diurnal variations of plant isoprenoid emissions from two dominant species in Mediterranean shrubland and forest submitted to experimental drought. <i>Atmospheric Environment</i> , 2018 , 191, 105-115	5.3	11
346	Influence of Landscape Heterogeneity and Spatial Resolution in Multi-Temporal In Situ and MODIS NDVI Data Proxies for Seasonal GPP Dynamics. <i>Remote Sensing</i> , 2019 , 11, 1656	5	11
345	Covariations between plant functional traits emerge from constraining parameterization of a terrestrial biosphere model. <i>Global Ecology and Biogeography</i> , 2019 , 28, 1351-1365	6.1	11
344	Electron transport efficiency at opposite leaf sides: effect of vertical distribution of leaf angle, structure, chlorophyll content and species in a forest canopy. <i>Tree Physiology</i> , 2013 , 33, 202-10	4.2	11
343	Nature beyond Linearity: Meteorological Variability and Jensen's Inequality Can Explain Mast Seeding Behavior. <i>Frontiers in Ecology and Evolution</i> , 2017 , 5,	3.7	11
342	Optimum temperature for floral terpene emissions tracks the mean temperature of the flowering season. <i>Functional Plant Biology</i> , 2015 , 42, 851-857	2.7	11
341	The world at a crossroads: Financial scenarios for sustainability. <i>Energy Policy</i> , 2012 , 48, 611-617	7.2	11
340	Direct epitaxial growth of SrTiO ₃ on Si (001): Interface, crystallization and IR evidence of phase transition. <i>Thin Solid Films</i> , 2011 , 519, 5722-5725	2.2	11
339	XMCD studies of Cox Pt ₁₀₀ nanoparticles prepared by vapour deposition and chemical synthesis. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008 , 205, 1047-1051	1.6	11
338	Response to Firn and Jones: Volatile isoprenoids, a special case of secondary metabolism. <i>Trends in Plant Science</i> , 2006 , 11, 113-114	13.1	11
337	Global Socioeconomic Risk of Precipitation Extremes Under Climate Change. <i>Earth's Future</i> , 2020 , 8, e2019EF001331	19.5	11
336	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

335	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
334	Growth optimization and characterization of regular arrays of GaAs/AlGaAs core/shell nanowires for tandem solar cells on silicon. <i>Nanotechnology</i> , 2019 , 30, 084005	3.4	11
333	A model for estimating transpiration from remotely sensed solar-induced chlorophyll fluorescence. <i>Remote Sensing of Environment</i> , 2021 , 252, 112134	13.2	11
332	Assessing Ecosystem Isoprene Emissions by Hyperspectral Remote Sensing. <i>Remote Sensing</i> , 2018 , 10, 1086	5	11
331	Rice paddy soils are a quantitatively important carbon store according to a global synthesis. <i>Communications Earth & Environment</i> , 2021 , 2,	6.1	11
330	Immediate and carry-over effects of increased soil frost on soil respiration and microbial activity in a spruce forest. <i>Soil Biology and Biochemistry</i> , 2019 , 135, 51-59	7.5	10
329	Nutrient availability and climate as the main determinants of the ratio of biomass to NPP in woody and non-woody forest compartments. <i>Trees - Structure and Function</i> , 2016 , 30, 775-783	2.6	10
328	Increasing gap in human height between rich and poor countries associated to their different intakes of N and P. <i>Scientific Reports</i> , 2017 , 7, 17671	4.9	10
327	Foliar photochemical processes and carbon metabolism under favourable and adverse winter conditions in a Mediterranean mixed forest, Catalonia (Spain). <i>Biogeosciences</i> , 2014 , 11, 5657-5674	4.6	10
326	Density and length of stomatal and epidermal cells in "living fossil" trees grown under elevated CO ₂ and a polar light regime. <i>Acta Oecologica</i> , 2011 , 37, 381-385	1.7	10
325	Lower P contents and more widespread terpene presence in old Bornean than in young Hawaiian tropical plant species guilds. <i>Ecosphere</i> , 2011 , 2, art45	3.1	10
324	Microspatial population genetic structure of the Mediterranean shrub <i>Fumana thymifolia</i> . <i>Plant Biology</i> , 2009 , 11, 152-60	3.7	10
323	Monoterpene emissions and photoinhibition of "living fossil" trees grown under CO ₂ enrichment in a simulated Cretaceous polar environment. <i>Journal of Geophysical Research</i> , 2009 , 114,		10
322	Water status, photosynthetic pigments, C/N ratios and respiration rates of sitka spruce seedlings exposed to 70 ppbv ozone for a summer. <i>Environmental and Experimental Botany</i> , 1994 , 34, 443-449	5.9	10
321	Recent advances and future research in ecological stoichiometry. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2021 , 50, 125611	3	10
320	Potential CO ₂ removal from enhanced weathering by ecosystem responses to powdered rock. <i>Nature Geoscience</i> , 2021 , 14, 545-549	18.3	10
319	Terpene arms race in the <i>Seiridium cardinale</i> - <i>Cupressus sempervirens</i> pathosystem. <i>Scientific Reports</i> , 2016 , 6, 18954	4.9	10
318	Regulation of nitrogen fixation from free-living organisms in soil and leaf litter of two tropical forests of the Guiana shield. <i>Plant and Soil</i> , 2020 , 450, 93-110	4.2	10

317	Partitioning between atmospheric deposition and canopy microbial nitrification into throughfall nitrate fluxes in a Mediterranean forest. <i>Journal of Ecology</i> , 2020 , 108, 626-640	6	10
316	Eco-evolutionary optimality as a means to improve vegetation and land-surface models. <i>New Phytologist</i> , 2021 , 231, 2125-2141	9.8	10
315	Reaffirming 'Ethnobotanical Convergence'. <i>Trends in Plant Science</i> , 2017 , 22, 640-641	13.1	9
314	Tree Sapling Responses to 10 Years of Experimental Manipulation of Temperature, Nutrient Availability, and Shrub Cover at the Pyrenean Treeline. <i>Frontiers in Plant Science</i> , 2018 , 9, 1871	6.2	9
313	Fast attrition of springtail communities by experimental drought and richness-decomposition relationships across Europe. <i>Global Change Biology</i> , 2019 , 25, 2727-2738	11.4	9
312	Simulating functional diversity of European natural forests along climatic gradients. <i>Journal of Biogeography</i> , 2020 , 47, 1069-1085	4.1	9
311	A MODIS Photochemical Reflectance Index (PRI) as an Estimator of Isoprene Emissions in a Temperate Deciduous Forest. <i>Remote Sensing</i> , 2018 , 10, 557	5	9
310	A screening study of leaf terpene emissions of 43 rainforest species in Danum Valley Conservation Area (Borneo) and their relationships with chemical and morphological leaf traits. <i>Plant Biosystems</i> , 2014 , 148, 307-317	1.6	9
309	Straw Application Strategy to Optimize Nutrient Release in a Southeastern China Rice Cropland. <i>Agronomy</i> , 2017 , 7, 84	3.6	9
308	Using <i>Pinus uncinata</i> to monitor tropospheric ozone in the Pyrenees. <i>Ecological Indicators</i> , 2014 , 36, 262-281	3.81	9
307	Foliar chemistry and standing folivory of early and late-successional species in a Bornean rainforest. <i>Plant Ecology and Diversity</i> , 2013 , 6, 245-256	2.2	9
306	Inter-annual variability of seed rain and seedling establishment of two woody Mediterranean species under field-induced drought and warming. <i>Population Ecology</i> , 2013 , 55, 277-289	2.1	9
305	Terpenoid emissions from <i>Quercus robur</i> . A case study of Galicia (NW Spain). <i>Journal of Environmental Monitoring</i> , 2009 , 11, 1268-75		9
304	Holocene palaeoenvironment in a former coastal lagoon of the arid south eastern Iberian Peninsula: salinization effects on $\delta^{15}N$. <i>Vegetation History and Archaeobotany</i> , 2008 , 17, 667-674	2.6	9
303	Process based inventory of isoprenoid emissions from European forests: model comparisons, current knowledge and uncertainties		9
302	Evaluation of VEGETATION and PROBA-V Phenology Using PhenoCam and Eddy Covariance Data. <i>Remote Sensing</i> , 2020 , 12, 3077	5	9
301	Estimation of Gross Primary Productivity (GPP) Phenology of a Short-Rotation Plantation Using Remotely Sensed Indices Derived from Sentinel-2 Images. <i>Remote Sensing</i> , 2020 , 12, 2104	5	9
300	Global patterns and drivers of rainfall partitioning by trees and shrubs. <i>Global Change Biology</i> , 2021 , 27, 3350-3357	11.4	9

299	Lessons learned from COVID-19 on potentially pathogenic soil microorganisms. <i>Soil Ecology Letters</i> , 2021 , 3, 1-5	2.7	9
298	Seasonal biological carryover dominates northern vegetation growth. <i>Nature Communications</i> , 2021 , 12, 983	17.4	9
297	Instantaneous and historical temperature effects on alpha-pinene emissions in <i>Pinus halepensis</i> and <i>Quercus ilex</i> . <i>Journal of Environmental Biology</i> , 2011 , 32, 1-6	1.6	9
296	Control of the compensating defects in Al-doped and Ga-doped ZnO nanocrystals for MIR plasmonics. <i>RSC Advances</i> , 2017 , 7, 28677-28683	3.7	8
295	Responses of photosynthesis and component processes to drought and temperature stress: are Mediterranean trees fit for climate change?. <i>Tree Physiology</i> , 2019 , 39, 1783-1805	4.2	8
294	Fire facilitates warming-induced upward shifts of alpine treelines by altering interspecific interactions. <i>Trees - Structure and Function</i> , 2019 , 33, 1051-1061	2.6	8
293	Site-specific factors influence the richness and phenology of snowbed plants in the Pyrenees. <i>Plant Biosystems</i> , 2016 , 150, 741-749	1.6	8
292	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
291	Correction of PRI for carotenoid pigment pools improves photosynthesis estimation across different irradiance and temperature conditions. <i>Remote Sensing of Environment</i> , 2020 , 244, 111834	13.2	8
290	INDUSTRIAL AND AGRICULTURAL WASTES DECREASED GREENHOUSE-GAS EMISSIONS AND INCREASED RICE GRAIN YIELD IN A SUBTROPICAL PADDY FIELD. <i>Experimental Agriculture</i> , 2018 , 54, 623-640	1.7	8
289	The role of titanium at the SrTiO ₃ /GaAs epitaxial interface. <i>Journal of Crystal Growth</i> , 2016 , 433, 139-142	12.6	8
288	Species-Specific Impacts of Invasive Plant Success on Vertical Profiles of Soil Carbon Accumulation and Nutrient Retention in the Minjiang River Tidal Estuarine Wetlands of China. <i>Soil Systems</i> , 2018 , 2, 5	3.5	8
287	Revisiting the role of high-energy Pacific events in the environmental and cultural history of Easter Island (Rapa Nui). <i>Geographical Journal</i> , 2018 , 184, 310-322	2.2	8
286	Using topographic and remotely sensed variables to assess ozone injury to conifers in the Sierra Nevada (USA) and Catalonia (Spain). <i>Remote Sensing of Environment</i> , 2013 , 139, 138-148	13.2	8
285	Corrigendum to "Can current moisture responses predict soil CO ₂ efflux under altered precipitation regimes? A synthesis of manipulation experiments". <i>Biogeosciences</i> , 2014 , 11, 3307-3308	4.6	8
284	Large delay in flowering in continental versus coastal populations of a Mediterranean shrub, <i>Globularia alypum</i> . <i>International Journal of Biometeorology</i> , 2011 , 55, 855-65	3.7	8
283	Partial arsenic pressure and crystal orientation during the molecular beam epitaxy of GaAs on SrTiO ₃ (001). <i>Journal of Applied Physics</i> , 2010 , 107, 094902	2.5	8
282	Flavonoid Responses in Wheat Grown at Elevated CO ₂ : Green Versus Senescent Leaves. <i>Photosynthetica</i> , 2000 , 37, 615-619	2.2	8

281	Allocation of absorbed light energy into photochemistry and dissipation in a semi-deciduous and an evergreen Mediterranean woody species during winter. <i>Functional Plant Biology</i> , 2001 , 28, 471	2.7	8
280	Sulfide-Resistant Respiration in Leaves of <i>Elodea canadensis</i> Michx: Comparison with Cyanide-Resistant Respiration. <i>Plant Physiology</i> , 1989 , 90, 1249-51	6.6	8
279	Cyanide-resistant respiration in photosynthetic organs of freshwater aquatic plants. <i>Plant Physiology</i> , 1987 , 84, 701-6	6.6	8
278	Distribution of Macrophytes in Relation to Environmental Factors in the Ter River, N. E. Spain. <i>International Review of Hydrobiology</i> , 1987 , 72, 41-58		8
277			8
276	Similar factors underlie tree abundance in forests in native and alien ranges. <i>Global Ecology and Biogeography</i> , 2020 , 29, 281-294	6.1	8
275	Responses of soil C, N, and P stoichiometric ratios to N and S additions in a subtropical evergreen broad-leaved forest. <i>Geoderma</i> , 2020 , 379, 114633	6.7	8
274	Global socioeconomic exposure of heat extremes under climate change. <i>Journal of Cleaner Production</i> , 2020 , 277, 123275	10.3	8
273	Variations in foliar carbon:nitrogen and nitrogen:phosphorus ratios under global change: a meta-analysis of experimental field studies. <i>Scientific Reports</i> , 2020 , 10, 12156	4.9	8
272	Effects of steel slag and biochar amendments on CO ₂ , CH ₄ , and NO flux, and rice productivity in a subtropical Chinese paddy field. <i>Environmental Geochemistry and Health</i> , 2019 , 41, 1419-1431	4.7	8
271	The effect of global change on soil phosphatase activity. <i>Global Change Biology</i> , 2021 , 27, 5989-6003	11.4	8
270	The three major axes of terrestrial ecosystem function. <i>Nature</i> , 2021 , 598, 468-472	50.4	8
269	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
268	Effects of nitrogen loading on emission of carbon gases from estuarine tidal marshes with varying salinity. <i>Science of the Total Environment</i> , 2019 , 667, 648-657	10.2	7
267	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
266	Light inhibition of foliar respiration in response to soil water availability and seasonal changes in temperature in Mediterranean holm oak (<i>Quercus ilex</i>) forest. <i>Functional Plant Biology</i> , 2017 , 44, 1178-1193	2.7	7
265	High V _{cmax} , J _{max} and photosynthetic rates of Sonoran Desert species: Using nitrogen and specific leaf area traits as predictors in biochemical models. <i>Journal of Arid Environments</i> , 2018 , 156, 1-8	2.5	7
264	Large anisotropy of ferroelectric and pyroelectric properties in heteroepitaxial oxide layers. <i>Scientific Reports</i> , 2018 , 8, 4332	4.9	7

263	Stable-Isotope Techniques to Investigate Sources of Plant Water 2018 , 439-456		7
262	The biogeochemical niche shifts of <i>Pinus sylvestris</i> var. <i>mongolica</i> along an environmental gradient. <i>Environmental and Experimental Botany</i> , 2019 , 167, 103825	5.9	7
261	Influence of catalyst droplet diameter on the growth direction of InP nanowires grown on Si(001) substrate. <i>Applied Physics Letters</i> , 2013 , 102, 243113	3.4	7
260	Impact of Soil Warming on the Plant Metabolome of Icelandic Grasslands. <i>Metabolites</i> , 2017 , 7,	5.6	7
259	Growth of vertical and defect free InP nanowires on SrTiO ₃ (001) substrate and comparison with growth on silicon. <i>Journal of Crystal Growth</i> , 2012 , 343, 101-104	1.6	7
258	Intensive measurements of gas, water, and energy exchange between vegetation and troposphere during the MONTES campaign in a vegetation gradient from short semi-desertic shrublands to tall wet temperate forests in the NW Mediterranean Basin. <i>Atmospheric Environment</i> , 2013 , 75, 348-364	5.3	7
257	Ge/SrTiO ₃ (001) interface probed by soft x-ray synchrotron-radiation time-resolved photoemission. <i>Physical Review B</i> , 2012 , 85,	3.3	7
256	A Reverse-Phase HPLC Method for Tricin Separation from Wheat Leaves. <i>Cereal Chemistry</i> , 1997 , 74, 495-496	2.4	7
255	Long-term fertilization determines different metabolomic profiles and responses in saplings of three rainforest tree species with different adult canopy position. <i>PLoS ONE</i> , 2017 , 12, e0177030	3.7	7
254	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
253	Encroachment of shrubs into subalpine grasslands in the Pyrenees changes the plant-soil stoichiometry spectrum. <i>Plant and Soil</i> , 2020 , 448, 37-53	4.2	7
252	Large Spatial Variations in Diffusive CH Fluxes from a Subtropical Coastal Reservoir Affected by Sewage Discharge in Southeast China. <i>Environmental Science & Technology</i> , 2020 , 54, 14192-14203	10.3	7
251	Divergent Estimates of Forest Photosynthetic Phenology Using Structural and Physiological Vegetation Indices. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089167	4.9	7
250	We Are What We Eat: A Stoichiometric and Ecometabolomic Study of Caterpillars Feeding on Two Pine Subspecies of. <i>International Journal of Molecular Sciences</i> , 2018 , 20,	6.3	7
249	Contrasting effects of fog frequency on the radial growth of two tree species in a Mediterranean-temperate ecotone. <i>Agricultural and Forest Meteorology</i> , 2019 , 264, 297-308	5.8	7
248	GLOVOCS - Master compound assignment guide for proton transfer reaction mass spectrometry users. <i>Atmospheric Environment</i> , 2021 , 244, 117929	5.3	7
247	Ten new insights in climate science 2020 1a horizon scan. <i>Global Sustainability</i> , 2021 , 4,	5.4	7
246	Remote sensing of canopy nitrogen at regional scale in Mediterranean forests using the spaceborne MERIS Terrestrial Chlorophyll Index. <i>Biogeosciences</i> , 2018 , 15, 2723-2742	4.6	7

245	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
244	Warming-induced shrubline advance stalled by moisture limitation on the Tibetan Plateau. <i>Ecography</i> ,	6.5	7
243	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
242	Encroachment of shrubs into subalpine grasslands in the Pyrenees modifies the structure of soil fungal communities and soil properties. <i>FEMS Microbiology Ecology</i> , 2019 , 95,	4.3	6
241	X-ray photoelectron spectroscopy and diffraction investigation of a metal-oxide-semiconductor heterostructure: Pt/Gd ₂ O ₃ /Si(111). <i>Journal of Crystal Growth</i> , 2015 , 416, 118-125	1.6	6
240	Growth process of nanosized aluminum thin films by pulsed laser deposition for fluorescence enhancement. <i>Nanotechnology</i> , 2015 , 26, 115604	3.4	6
239	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
238	Crystal phase engineering of self-catalyzed GaAs nanowires using a RHEED diagram. <i>Nanoscale Advances</i> , 2020 , 2, 2127-2134	5.1	6
237	Different "metabolomic niches" of the highly diverse tree species of the French Guiana rainforests. <i>Scientific Reports</i> , 2020 , 10, 6937	4.9	6
236	Directional trends in species composition over time can lead to a widespread overemphasis of year-to-year asynchrony. <i>Journal of Vegetation Science</i> , 2020 , 31, 792-802	3.1	6
235	Patterns of local, intercontinental and interseasonal variation of soil bacterial and eukaryotic microbial communities. <i>FEMS Microbiology Ecology</i> , 2020 , 96,	4.3	6
234	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
233	Coping with iron limitation: a metabolomic study of <i>Synechocystis</i> sp. PCC 6803. <i>Acta Physiologiae Plantarum</i> , 2018 , 40, 1	2.6	6
232	GaAs Core/SrTiO ₃ Shell Nanowires Grown by Molecular Beam Epitaxy. <i>Nano Letters</i> , 2016 , 16, 2393-9	11.5	6
231	Do all chlorophyll fluorescence emission wavelengths capture the spring recovery of photosynthesis in boreal evergreen foliage?. <i>Plant, Cell and Environment</i> , 2019 , 42, 3264-3279	8.4	6
230	A tethered-balloon PTRMS sampling approach for surveying of landscape-scale biogenic VOC fluxes. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 2263-2271	4	6
229	Polarization properties of single and ensembles of InAs/InP quantum rod nanowires emitting in the telecom wavelengths. <i>Journal of Applied Physics</i> , 2013 , 113, 193101	2.5	6
228	Climatic and soil factors explain the two-dimensional spectrum of global plant trait variation.. <i>Nature Ecology and Evolution</i> , 2021 ,	12.3	6

227	Effects of vegetation canopy and climate on seedling establishment in Mediterranean shrubland 2005 , 16, 67		6
226	Evaporation trends in Spain: a comparison of Class A pan and Piche atmometer measurements. <i>Climate Research</i> , 2014 , 61, 277-288	1.6	6
225	Identification and quantification of organic aerosol from cooking and other sources in Barcelona using aerosol mass spectrometer data		6
224	Annual ecosystem respiration is resistant to changes in freeze-thaw periods in semi-arid permafrost. <i>Global Change Biology</i> , 2019 , 26, 2630	11.4	6
223	Insights into nanoplastics effects on human health. <i>Science Bulletin</i> , 2020 , 65, 1966-1969	10.6	6
222	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
221	sPlotOpen [An environmentally balanced, open-access, global dataset of vegetation plots. <i>Global Ecology and Biogeography</i> , 2021 , 30, 1740-1764	6.1	6
220	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
219	No benefits from warming even for subnival vegetation in the central Himalayas. <i>Science Bulletin</i> , 2021 , 66, 1825-1829	10.6	6
218	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
217	A new approach to optimal discretization of plant functional types in a process-based ecosystem model with forest management: a case study for temperate conifers. <i>Global Ecology and Biogeography</i> , 2017 , 26, 486-499	6.1	5
216	Responses of greenhouse-gas emissions to land-use change from rice to jasmine production in subtropical China. <i>Atmospheric Environment</i> , 2019 , 201, 391-401	5.3	5
215	X-ray photoelectron spectroscopy study of Ga nanodroplet on silica-terminated silicon surface for nanowire growth. <i>Journal of Crystal Growth</i> , 2019 , 514, 83-88	1.6	5
214	Sensing the energetic status of plants and ecosystems. <i>Trends in Plant Science</i> , 2015 , 20, 528-30	13.1	5
213	Spatial Pattern and Environmental Drivers of Acid Phosphatase Activity in Europe. <i>Frontiers in Big Data</i> , 2019 , 2, 51	2.8	5
212	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
211	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
210	Multiple trade-offs between maximizing yield and minimizing greenhouse gas production in Chinese rice croplands. <i>Land Degradation and Development</i> , 2020 , 31, 1287-1299	4.4	5

209	Higher fluxes of C, N and P in plant/soil cycles associated with plant invasion in a subtropical estuarine wetland in China. <i>Science of the Total Environment</i> , 2020 , 730, 139124	10.2	5
208	Structure and morphology of Ge nanowires on Si (001): Importance of the Ge islands on the growth direction and twin formation. <i>Journal of Applied Physics</i> , 2015 , 117, 055302	2.5	5
207	A choice modelling case study on climate change involving two-way interactions. <i>Journal of Forest Economics</i> , 2012 , 18, 345-354	1.1	5
206	Engineering Pseudosubstrates with Porous Silicon Technology. <i>Engineering Materials</i> , 2011 , 47-65	0.4	5
205	Local tuning of CoPt nanoparticle size and density with a focused ion beam nanowriter. <i>Nanotechnology</i> , 2009 , 20, 425304	3.4	5
204	Indirect effects of tending ants on holm oak volatiles and acorn quality. <i>Plant Signaling and Behavior</i> , 2011 , 6, 547-50	2.5	5
203	Seasonal ultrasonic acoustic emissions of Quercus ilex L. trees in a Mediterranean forest. <i>Acta Physiologiae Plantarum</i> , 2007 , 29, 407-410	2.6	5
202	Functional Traits 2.0: The power of the metabolome for ecology. <i>Journal of Ecology</i> , 2022 , 110, 4-20	6	5
201	Establishment of co-existing Mediterranean tree species under a varying soil moisture regime 2004 , 15, 237		5
200	Contrasting winter and summer VOC mixing ratios at a forest site in the Western Mediterranean Basin: the effect of local biogenic emissions		5
199	DO₃SE modelling of soil moisture to determine ozone flux to European forest trees		5
198	A vertically discretised canopy description for ORCHIDEE (SVN r2290) and the modifications to the energy, water and carbon fluxes		5
197	ForestTemp - Sub-canopy microclimate temperatures of European forests. <i>Global Change Biology</i> , 2021 , 27, 6307-6319	11.4	5
196	Remote Sensing of Terrestrial Photosynthesis1 1995 , 511-527		5
195	Distribution longitudinale des bryophytes d'un fleuve méditerranéen du N.E. de l'Espagne : Le Fluvii <i>Annales De Limnologie</i> , 1983 , 19, 179-185	0.7	5
194	What drives phenological synchrony? Warm springs advance and desynchronize flowering in oaks. <i>Agricultural and Forest Meteorology</i> , 2020 , 294, 108140	5.8	5
193	Improved Estimates of Arctic Land Surface Phenology Using Sentinel-2 Time Series. <i>Remote Sensing</i> , 2020 , 12, 3738	5	5
192	Carbon storage and plant-soil linkages among soil aggregates as affected by nitrogen enrichment and mowing management in a meadow grassland. <i>Plant and Soil</i> , 2020 , 457, 407-420	4.2	5

191	Country-Level Relationships of the Human Intake of N and P, Animal and Vegetable Food, and Alcoholic Beverages with Cancer and Life Expectancy. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	5
190	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
189	Visible ozone-like injury, defoliation, and mortality in two <i>Pinus uncinata</i> stands in the Catalan Pyrenees (NE Spain). <i>European Journal of Forest Research</i> , 2016 , 135, 687-696	2.7	5
188	GaAs nanowires with oxidation-proof arsenic capping for the growth of an epitaxial shell. <i>Nanoscale</i> , 2016 , 8, 15637-44	7.7	5
187	Including Stable Carbon Isotopes to Evaluate the Dynamics of Soil Carbon in the Land-Surface Model ORCHIDEE. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 3650-3669	7.1	5
186	Atmo-ecometabolomics: a novel atmospheric particle chemical characterization methodology for ecological research. <i>Environmental Monitoring and Assessment</i> , 2019 , 191, 78	3.1	5
185	Global vegetation biomass production efficiency constrained by models and observations. <i>Global Change Biology</i> , 2020 , 26, 1474-1484	11.4	5
184	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
183	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
182	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
181	Monitoring Spatial and Temporal Variabilities of Gross Primary Production Using MAIAC MODIS Data. <i>Remote Sensing</i> , 2019 , 11, 874	5	4
180	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
179	STEEL SLAG AMENDMENT INCREASES NUTRIENT AVAILABILITY AND RICE YIELD IN A SUBTROPICAL PADDY FIELD IN CHINA. <i>Experimental Agriculture</i> , 2018 , 54, 842-856	1.7	4
178	Decelerating Autumn CO ₂ Release With Warming Induced by Attenuated Temperature Dependence of Respiration in Northern Ecosystems. <i>Geophysical Research Letters</i> , 2018 , 45, 5562-5571	4.9	4
177	Phase transition in ferroelectric Pb(Zr _{0.52} Ti _{0.48})O ₃ epitaxial thin films. <i>Thin Solid Films</i> , 2014 , 553, 85-88.	2.2	4
176	Interface accommodation mechanism for weakly interacting epitaxial systems. <i>Applied Physics Letters</i> , 2013 , 103, 021602	3.4	4
175	Improving assessments of tropospheric ozone injury to Mediterranean montane conifer forests in California (USA) and Catalonia (Spain) with GIS models related to plant water relations. <i>Atmospheric Environment</i> , 2012 , 62, 41-49	5.3	4
174	Climate warming results in phenotypic and evolutionary changes in spring events: a mini-review	176-200	4

173	Crystallographic orientation transition of InP islands on SrTiO ₃ substrates with the growth temperature. <i>Surface Science</i> , 2011 , 605, 912-916	1.8	4
172	Response to Pichersky et al.: Plant volatile isoprenoids and their opportunistic functions. <i>Trends in Plant Science</i> , 2006 , 11, 423-423	13.1	4
171	Dichelyma falcalum (Hedw.) Myr., a glacial relict, new to Southern Europe. <i>Journal of Bryology</i> , 1985 , 13, 591-592	1.1	4
170	Fossil versus contemporary sources of fine elemental and organic carbonaceous particulate matter during the DAURE campaign in Northeast Spain		4
169	Estimation of isoprenoid emission factors from enclosure studies: measurements, data processing, quality and standardized measurement protocols		4
168	Could Global Intensification of Nitrogen Fertilisation Increase Immunogenic Proteins and Favour the Spread of Coeliac Pathology?. <i>Foods</i> , 2020 , 9,	4.9	4
167	Climate Change Effects in a Mediterranean Forest Following 21 Consecutive Years of Experimental Drought. <i>Forests</i> , 2021 , 12, 306	2.8	4
166	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
165	Sol-gel deposition of Pb(Zr,Ti)O ₃ on GaAs/InGaAs quantum well heterostructure via SrTiO ₃ templates: Stability of the semiconductor during oxide growth. <i>Thin Solid Films</i> , 2016 , 617, 67-70	2.2	4
164	Long-term linear trends mask phenological shifts. <i>International Journal of Biometeorology</i> , 2016 , 60, 1613-1614	1.7	4
163	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
162	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
161	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
160	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
159	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
158	Soil phosphorus availability affects diazotroph communities during vegetation succession in lowland subtropical forests. <i>Applied Soil Ecology</i> , 2021 , 166, 104009	5	4
157	A Broadband Green-Red Vegetation Index for Monitoring Gross Primary Production Phenology. <i>Journal of Remote Sensing</i> , 2022 , 2022, 1-10		4
156	Profile of foliar isoprenoid emissions from Mediterranean dominant shrub and tree species under experimental nitrogen deposition. <i>Atmospheric Environment</i> , 2019 , 216, 116951	5.3	3

155	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
154	Reply to: Nutrient scarcity cannot cause mast seeding. <i>Nature Plants</i> , 2020 , 6, 763-765	11.5	3
153	Trends of AOT40 at three sites in the Catalan Pyrenees over the last 16 years. <i>Journal of Atmospheric Chemistry</i> , 2011 , 68, 317-330	3.2	3
152	FLuorescence EXplorer (FLEX): an optimised payload to map vegetation photosynthesis from space 2006 ,		3
151	Spatio-temporal pigment gradient along transverse transects of the Riu Tenes (Catalonia). <i>Journal of Bryology</i> , 1988 , 15, 229-232	1.1	3
150	The global nitrogen-phosphorus imbalance.. <i>Science</i> , 2022 , 375, 266-267	33.3	3
149	Impact of Lockdowns and Winter Temperatures on Natural Gas Consumption in Europe. <i>Earth's Future</i> , 2022 , 10,	7.9	3
148	The emission factor of volatile isoprenoids: stress, acclimation, and developmental responses		3
147	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
146	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
145	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
144	Half of the world's tree biodiversity is unprotected and is increasingly threatened by human activities		3
143	Rapid root assimilation of added phosphorus in a lowland tropical rainforest of French Guiana. <i>Soil Biology and Biochemistry</i> , 2020 , 140, 107646	7.5	3
142	The Neglected Reverse Water Pathway: Atmosphere-Plant-Soil Continuum. <i>Trends in Plant Science</i> , 2020 , 25, 1073-1075	13.1	3
141	Acid rain mediated nitrogen and sulfur deposition alters soil nitrogen, phosphorus and carbon fractions in a subtropical paddy. <i>Catena</i> , 2020 , 195, 104876	5.8	3
140	Climatic temperature controls the geographical patterns of coastal marshes greenhouse gases emissions over China. <i>Journal of Hydrology</i> , 2020 , 590, 125378	6	3
139	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
138	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

137	Dynamics of volatile organic compounds in a western Mediterranean oak forest. <i>Atmospheric Environment</i> , 2021 , 257, 118447	5.3	3
136	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
135	Chemical reactivity between sol-gel deposited Pb(Zr,Ti)O ₃ layers and their GaAs substrates. <i>CrystEngComm</i> , 2016 , 18, 7494-7500	3.3	3
134	Variance in biomass-allocation fractions is explained by distribution in European trees. <i>New Phytologist</i> , 2019 , 222, 1352-1363	9.8	3
133	Coupled steel slag and biochar amendment correlated with higher methanotrophic abundance and lower CH ₄ emission in subtropical paddies. <i>Environmental Geochemistry and Health</i> , 2020 , 42, 483-497	4.7	3
132	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
131	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
130	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
129	Ecosystem Collapse and Climate Change: An Introduction. <i>Ecological Studies</i> , 2021 , 1-9	1.1	3
128	Soil Cover Improves Soil Quality in a Young Walnut Forest in the Sichuan Basin, China. <i>Forests</i> , 2021 , 12, 236	2.8	3
127	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
126	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
125	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
124	Ecometabolomics of plant-herbivore and plant-fungi interactions: a synthesis study. <i>Ecosphere</i> , 2021 , 12, e03736	3.1	3
123	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	3
122	Optimal Coupling of Straw and Synthetic Fertilizers Incorporation on Soil Properties, Active Fe Dynamics, and Greenhouse Gas Emission in <i>Jasminum sambac</i> (L.) Field in Southeastern China. <i>Sustainability</i> , 2019 , 11, 1092	3.6	2
121	Reply to 'Uncertain effects of nutrient availability on global forest carbon balance' and 'Data quality and the role of nutrients in forest carbon-use efficiency'. <i>Nature Climate Change</i> , 2015 , 5, 960-961	21.4	2
120	Differences in photosynthesis and terpene content in leaves and roots of wild-type and transgenic <i>Arabidopsis thaliana</i> plants. <i>Russian Journal of Plant Physiology</i> , 2015 , 62, 823-829	1.6	2

119	Dam Construction as an Important Anthropogenic Activity Disturbing Soil Organic Carbon in Affected Watersheds. <i>Environmental Science & Technology</i> , 2020 , 54, 7932-7941	10.3	2
118	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
117	Texture of Ge on SrTiO ₃ (001) substrates: Evidence for in-plane axiotaxy. <i>Surface Science</i> , 2016 , 644, 13-17	1.8	2
116	Morphological and structural properties of InP/Gd ₂ O ₃ nanowires grown by molecular beam epitaxy on silicon substrate. <i>Journal of Crystal Growth</i> , 2012 , 347, 49-52	1.6	2
115	Ge/SrTiO ₃ (001): Correlation between interface chemistry and crystallographic orientation. <i>Journal of Applied Physics</i> , 2012 , 112, 093508	2.5	2
114	Climate change policy: IPCC consensus is not enough. <i>Ambio</i> , 2008 , 37, 321-2	6.5	2
113	Diamagnetic Susceptibility and Root Growth Responses to Magnetic Fields in <i>Lens culinaris</i> , <i>Glycine soja</i> , and <i>Triticum aestivum</i> . <i>Electromagnetic Biology and Medicine</i> , 2004 , 23, 97-112	2.2	2
112	Optimal biochar application rates for mitigating global warming and increasing rice yield in a subtropical paddy field. <i>Experimental Agriculture</i> , 1-17	1.7	2
111	Evolution of Human Salivary Stress Markers during an Eight-Hour Exposure to a Mediterranean Holm Oak Forest. A Pilot Study. <i>Forests</i> , 2021 , 12, 1600	2.8	2
110	Natural forests promote phosphorus retention in soil. <i>Global Change Biology</i> , 2021 ,	11.4	2
109	Caracterizaci3n de la fenolog3a de la vegetaci3n a escala global mediante series temporales SPOT VEGETATION. <i>Revista De Teledeteccion</i> , 2016 , 1	0.7	2
108	Volatile organic compounds in the Western Mediterranean Basin: urban and rural winter measurements during the DAURE campaign		2
107	Regional detection of canopy nitrogen in Mediterranean forests using the spaceborne MERIS Terrestrial Chlorophyll Index		2
106	Can current moisture responses predict soil CO ₂ efflux under altered precipitation regimes? A synthesis of manipulation experiments		2
105	Foliar photochemical processes and carbon metabolism under favourable and adverse winter conditions in a Mediterranean mixed forest, Catalonia (Spain)		2
104	The emission factor of volatile isoprenoids: caveats, model algorithms, response shapes and scaling		2
103	Global and regional phosphorus budgets in agricultural systems and their implications for phosphorus-use efficiency		2
102	Author response: Experimental and observational studies find contrasting responses of soil nutrients to climate change 2017 ,		2

101	Chronic and intense droughts differentially influence grassland carbon-nutrient dynamics along a natural aridity gradient. <i>Plant and Soil</i> , 1	4.2	2
100	Global Root Traits (GRooT) Database		2
99	Exogenous P compounds differentially interacted with N availability to regulate enzymatic activities in a meadow steppe. <i>European Journal of Soil Science</i> , 2020 , 71, 667-680	3.4	2
98	Shifts in Microbial Biomass C/N/P Stoichiometry and Bacterial Community Composition in Subtropical Estuarine Tidal Marshes Along a Gradient of Freshwater/Oligohaline Water. <i>Ecosystems</i> , 2020 , 23, 1265-1280	3.9	2
97	The role of climate, foliar stoichiometry and plant diversity on ecosystem carbon balance. <i>Global Change Biology</i> , 2020 , 26, 7067-7078	11.4	2
96	P-NMR Metabolomics Revealed Species-Specific Use of Phosphorous in Trees of a French Guiana Rainforest. <i>Molecules</i> , 2020 , 25,	4.8	2
95	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
94	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
93	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
92	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
91	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
90	Phosphorus mobilization and availability across the freshwater to oligohaline water transition in subtropical estuarine marshes. <i>Catena</i> , 2021 , 201, 105195	5.8	2
89	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
88	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
87	Improved representation of plant functional types and physiology in the Joint UK Land Environment Simulator (JULES v4.2) using plant trait information 2016 ,		2
86	Evolutionary Responses of Invertebrates to Global Climate Change: the Role of Life-History Trade-Offs and Multidecadal Climate Shifts 2016 , 317-348		2
85	EFFECTS OF FERTILIZATION ON POREWATER NUTRIENTS, GREENHOUSE-GAS EMISSIONS AND RICE PRODUCTIVITY IN A SUBTROPICAL PADDY FIELD. <i>Experimental Agriculture</i> , 2019 , 55, 395-411	1.7	2
84	Data-driven estimates of global litter production imply slower vegetation carbon turnover. <i>Global Change Biology</i> , 2021 , 27, 1678-1688	11.4	2

83	Impacts of Use and Abuse of Nature in Catalonia with Proposals for Sustainable Management. <i>Land</i> , 2021 , 10, 144	3.5	2
82	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
81	Disentangling climate from soil nutrient effects on plant biomass production using a multispecies phytometer. <i>Ecosphere</i> , 2021 , 12, e03719	3.1	2
80	Vertical profiles of leaf photosynthesis and leaf traits, and soil nutrients in two tropical rainforests in French Guiana before and after a three-year nitrogen and phosphorus addition experiment		2
79	Response to Comments on "Recent global decline of CO fertilization effects on vegetation photosynthesis". <i>Science</i> , 2021 , 373, eabg7484	33.3	2
78	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
77	Soil nutrient variation along a shallow catena in Paracou, French Guiana. <i>Soil Research</i> , 2021 , 59, 130	1.8	2
76	Decreasing rainfall frequency contributes to earlier leaf onset in northern ecosystems. <i>Nature Climate Change</i> , 2022 , 12, 386-392	21.4	2
75	Can light-saturated photosynthesis in lowland tropical forests be estimated by one light level?. <i>Biotropica</i> , 2020 , 52, 1183-1193	2.3	1
74	Assessing intraspecific trait variability during seedling establishment to improve restoration of tropical dry forests. <i>Ecosphere</i> , 2020 , 11, e03052	3.1	1
73	ORCHIDEE-SOM: Modeling soil organic carbon (SOC) and dissolved organic carbon (DOC) dynamics along vertical soil profiles in Europe 2017 ,		1
72	Growth of Ge islands on SrTiO ₃ (001) 2 \times 1 reconstructed surface: Epitaxial relationship and effect of the temperature. <i>Surface Science</i> , 2014 , 624, 130-134	1.8	1
71	Multifunctional surfaces from multi-step generation of silver thiolate. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 453, 44-52	5.1	1
70	Direct epitaxial growth of InP based heterostructures on SrTiO ₃ /Si(001) crystalline templates. <i>Microelectronic Engineering</i> , 2011 , 88, 469-471	2.5	1
69	2012 ,		1
68	Warming and drought alter C and N concentration, allocation and accumulation in a Mediterranean shrubland. <i>Global Change Biology</i> , 2008 , 14, 2771-2771	11.4	1
67	Contrasting phenology responses to climate warming across the northern extra-tropics. <i>Fundamental Research</i> , 2022 ,		1
66	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

65	Nitrogen enrichment buffers phosphorus limitation by mobilizing mineral-bound soil phosphorus in grasslands.. <i>Ecology</i> , 2021 , e3616	4.6	1
64	Decay of similarity across tropical forest communities: integrating spatial distance with soil nutrients. <i>Ecology</i> , 2021 , e03599	4.6	1
63	Is the climate change mitigation effect of enhanced silicate weathering governed by biological processes?. <i>Global Change Biology</i> , 2021 ,	11.4	1
62	Sources, transport and deposition of iron in the global atmosphere		1
61	Synthesizing greenhouse gas fluxes across nine European peatlands and shrublands ¶Responses to climatic and environmental changes		1
60	Interactive effects of soil water content and nutrients on root exudation in two Mediterranean tree species. <i>Soil Biology and Biochemistry</i> , 2021 , 163, 108453	7.5	1
59	Does biological rhythm transmit from plants to rhizosphere microbes?. <i>Environmental Microbiology</i> , 2021 , 23, 6895-6906	5.2	1
58	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
57	Growth and Composition of Nitrogen and Water Stressed Pepper Plants, Their Assessment by Remote Sensing and Their Herbivory Effects 1993 , 617-631		1
56	Greenhouse gas emissions in a subtropical jasmine plantation managed with straw combined with industrial and agricultural wastes. <i>Experimental Agriculture</i> , 2020 , 56, 280-292	1.7	1
55	Ground Level Isoprenoid Exchanges Associated with Pinus pinea Trees in A Mediterranean Turf. <i>Atmosphere</i> , 2020 , 11, 809	2.7	1
54	Divergent responses of phenology and growth to summer and autumnal warming. <i>Global Change Biology</i> , 2021 , 27, 2905-2913	11.4	1
53	Measuring temporal patterns in ecology: The case of mast seeding. <i>Ecology and Evolution</i> , 2021 , 11, 2990-2996	11.4	1
52	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
51	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
50	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
49	Nutrients control reproductive traits of hygrophytic bryophytes. <i>Freshwater Biology</i> , 2021 , 66, 1436-1446	5.1	1
48	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

47	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
46	Life and the five biological laws. Lessons for global change models and sustainability. <i>Ecological Complexity</i> , 2019 , 38, 11-14	2.6	1
45	Effects Of Thinning In a Water-Limited Holm Oak Forest. <i>Journal of Sustainable Forestry</i> , 2020 , 39, 365-378	11.4	1
44	Characterisation of Functional-Trait Dynamics at High Spatial Resolution in a Mediterranean Forest from Sentinel-2 and Ground-Truth Data. <i>Remote Sensing</i> , 2018 , 10, 1874	5	1
43	Stability of elemental content correlates with plant resistance to soil impoverishment. <i>Plant and Soil</i> , 2021 , 467, 213	4.2	1
42	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
41	Successional patterns of bacterial communities and their functions in shrimp aquaculture pond water across farming phases. <i>Aquaculture Research</i> ,	1.9	1
40	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
39	Climatic and edaphic controls over the elevational pattern of microbial necromass in subtropical forests. <i>Catena</i> , 2021 , 207, 105707	5.8	1
38	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
37	Higher temperature sensitivity of flowering than leaf-out alters the time between phenophases across temperate tree species. <i>Global Ecology and Biogeography</i> , 2022 , 31, 901-911	6.1	1
36	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
35	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
34	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
33	Large loss and rapid recovery of vegetation cover and aboveground biomass over forest areas in Australia during 2019-2020. <i>Remote Sensing of Environment</i> , 2022 , 278, 113087	13.2	1
32	Natural carbon solutions are not large or fast enough. <i>Global Change Biology</i> , 2019 , 25, e5	11.4	0
31	Contribution of periphytic biofilm of paddy soils to carbon dioxide fixation and methane emissions.. <i>Innovation(China)</i> , 2022 , 3, 100192	17.8	0
30	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

29	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	o
28	Monitoring Compliance in Pandemic Management with Air Pollution Data: A Lesson From COVID-19. <i>Environmental Science & Technology</i> , 2021 , 55, 13571-13574	10.3	o
27	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	o
26	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	o
25	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	o
24	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	o
23	Monitoring the Responses of Deciduous Forest Phenology to 2000–2018 Climatic Anomalies in the Northern Hemisphere. <i>Remote Sensing</i> , 2021 , 13, 2806	5	o
22	Low-level saltwater intrusion alters soil diazotrophic community structure in a subtropical estuarine wetland. <i>Applied Soil Ecology</i> , 2021 , 164, 103959	5	o
21	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	o
20	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	o
19	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	o
18	Advancing Global Biodiversity Governance: Recommendations for Strengthening the Post-2020 Global Biodiversity Framework. <i>Anthropocene Science</i> , 2022 , 1, 195-203		o
17	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	o
16	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	o
15	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	o
14	Oxidation product characterization from ozonolysis of the diterpene <i>ent</i>-kaurene. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 5619-5637	6.8	o
13	The EU needs a nutrient directive. <i>Nature Reviews Earth & Environment</i> , 2022 , 3, 287-288	30.2	o
12	Carbon, Nitrogen and Phosphorus Stoichiometry in Natural and Plantation Forests in China. <i>Forests</i> , 2022 , 13, 755	2.8	o

11	Taste and Smell: A Unifying Chemosensory Theory. <i>Quarterly Review of Biology</i> , 2022 , 97, 69-94	5.4	o
10	Fluorescence ratio and photochemical reflectance index as a proxy for photosynthetic quantum efficiency of photosystem II along a phosphorus gradient. <i>Agricultural and Forest Meteorology</i> , 2022 , 322, 109019	5.8	o
9	Respiratory electron transport system (ETS) activity in Spanish reservoirs: relationships with nutrients and seston. <i>Journal of Plankton Research</i> , 1995 , 17, 513-530	2.2	
8	Thermal Acclimation of Foliar Carbon Metabolism in Along an Elevational Gradient.. <i>Frontiers in Plant Science</i> , 2021 , 12, 778045	6.2	
7	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	
6	The Relative Sensitivity of Different Mediterranean Plant Species to Ozone Exposure 1999 , 273-277		
5	Warming affects soil metabolome: The case study of Icelandic grasslands. <i>European Journal of Soil Biology</i> , 2021 , 105, 103317	2.9	
4	Divergent effects of snow exclusion on microbial variables across aggregate size classes. <i>Catena</i> , 2021 , 206, 105481	5.8	
3	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	
2	Balancing greenhouse gas sources and sinks: Inventories, budgets, and climate policy 2022 , 3-28		
1	Measuring root exudate metabolites in holm oak (<i>Quercus ilex</i>) under drought and recovery 2022 , 17-28		