

Serge Rambal

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184
papers

17,099
citations

64
h-index

128
g-index

193
ext. papers

18,827
ext. citations

6.4
avg, IF

5.91
L-index

#	Paper	IF	Citations
184	Europe-wide reduction in primary productivity caused by the heat and drought in 2003. <i>Nature</i> , 2005 , 437, 529-33	50.4	2643
183	On the separation of net ecosystem exchange into assimilation and ecosystem respiration: review and improved algorithm. <i>Global Change Biology</i> , 2005 , 11, 1424-1439	11.4	2253
182	Towards a standardized processing of Net Ecosystem Exchange measured with eddy covariance technique: algorithms and uncertainty estimation. <i>Biogeosciences</i> , 2006 , 3, 571-583	4.6	994
181	Modeling temporal and large-scale spatial variability of soil respiration from soil water availability, temperature and vegetation productivity indices. <i>Global Biogeochemical Cycles</i> , 2003 , 17, n/a-n/a	5.9	431
180	Evidence for soil water control on carbon and water dynamics in European forests during the extremely dry year: 2003. <i>Agricultural and Forest Meteorology</i> , 2007 , 143, 123-145	5.8	427
179	Reduction of ecosystem productivity and respiration during the European summer 2003 climate anomaly: a joint flux tower, remote sensing and modelling analysis. <i>Global Change Biology</i> , 2007 , 13, 634-651	11.4	423
178	Severe drought effects on ecosystem CO ₂ and H ₂ O fluxes at three Mediterranean evergreen sites: revision of current hypotheses?. <i>Global Change Biology</i> , 2002 , 8, 999-1017	11.4	400
177	Land management and land-cover change have impacts of similar magnitude on surface temperature. <i>Nature Climate Change</i> , 2014 , 4, 389-393	21.4	304
176	Evaluation of the potential of MODIS satellite data to predict vegetation phenology in different biomes: An investigation using ground-based NDVI measurements. <i>Remote Sensing of Environment</i> , 2013 , 132, 145-158	13.2	266
175	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020 , 7, 225	8.2	256
174	How Tree Cover Influences the Water Balance of Mediterranean Rangelands. <i>Ecology</i> , 1993 , 74, 570-582	4.6	242
173	The dehesa system of southern Spain and Portugal as a natural ecosystem mimic. <i>Agroforestry Systems</i> , 1999 , 45, 57-79	2	233
172	Ecosystem respiration in two Mediterranean evergreen Holm Oak forests: drought effects and decomposition dynamics. <i>Functional Ecology</i> , 2002 , 16, 27-39	5.6	223
171	Simulating climate change impacts on fire frequency and vegetation dynamics in a Mediterranean-type ecosystem. <i>Global Change Biology</i> , 2002 , 8, 423-437	11.4	193
170	Drought controls over conductance and assimilation of a Mediterranean evergreen ecosystem: scaling from leaf to canopy. <i>Global Change Biology</i> , 2003 , 9, 1813-1824	11.4	167
169	Quality control of CarboEurope flux data [Part 1: Coupling footprint analyses with flux data quality assessment to evaluate sites in forest ecosystems. <i>Biogeosciences</i> , 2008 , 5, 433-450	4.6	164
168	Quality analysis applied on eddy covariance measurements at complex forest sites using footprint modelling. <i>Theoretical and Applied Climatology</i> , 2005 , 80, 121-141	3	153

167	Long-term transpiration change with rainfall decline in a Mediterranean <i>Quercus ilex</i> forest. <i>Global Change Biology</i> , 2009 , 15, 2163-2175	11.4	149
166	Seasonal and annual variation of carbon exchange in an evergreen Mediterranean forest in southern France. <i>Global Change Biology</i> , 2008 , 14, 714-725	11.4	143
165	Ground-based Network of NDVI measurements for tracking temporal dynamics of canopy structure and vegetation phenology in different biomes. <i>Remote Sensing of Environment</i> , 2012 , 123, 234-245	13.2	139
164	Field study of leaf photosynthetic performance by a Mediterranean deciduous oak tree (<i>Quercus pubescens</i>) during a severe summer drought. <i>New Phytologist</i> , 1995 , 131, 159-167	9.8	132
163	Mast seeding under increasing drought: results from a long-term data set and from a rainfall exclusion experiment. <i>Ecology</i> , 2010 , 91, 3057-68	4.6	130
162	Inverse modeling of seasonal drought effects on canopy CO ₂ /H ₂ O exchange in three Mediterranean ecosystems. <i>Journal of Geophysical Research</i> , 2003 , 108,		129
161	Water balance and pattern of root water uptake by a <i>Quercus coccifera</i> L. evergreen shrub. <i>Oecologia</i> , 1984 , 62, 18-25	2.9	128
160	Climate control of terrestrial carbon exchange across biomes and continents. <i>Environmental Research Letters</i> , 2010 , 5, 034007	6.2	116
159	Implications of the carbon cycle steady state assumption for biogeochemical modeling performance and inverse parameter retrieval. <i>Global Biogeochemical Cycles</i> , 2008 , 22, n/a-n/a	5.9	99
158	Exceptional carbon uptake in European forests during the warm spring of 2007: a data-model analysis. <i>Global Change Biology</i> , 2009 , 15, 1455-1474	11.4	96
157	Mediterranean Terrestrial Ecosystems: Research Priorities on Global Change Effects. <i>Global Ecology and Biogeography Letters</i> , 1998 , 7, 157		96
156	Modelling rainfall interception in a mediterranean <i>Quercus ilex</i> ecosystem: Lesson from a throughfall exclusion experiment. <i>Journal of Hydrology</i> , 2008 , 357, 57-66	6	95
155	Summer and winter sensitivity of leaves and xylem to minimum freezing temperatures: a comparison of co-occurring Mediterranean oaks that differ in leaf lifespan. <i>New Phytologist</i> , 2005 , 168, 597-612	9.8	95
154	Between-tree variations in leaf δ of <i>Quercus pubescens</i> and <i>Quercus ilex</i> among Mediterranean habitats with different water availability. <i>Oecologia</i> , 1997 , 111, 26-35	2.9	91
153	Growth duration is a better predictor of stem increment than carbon supply in a Mediterranean oak forest: implications for assessing forest productivity under climate change. <i>New Phytologist</i> , 2015 , 207, 579-90	9.8	90
152	On the temporal upscaling of evapotranspiration from instantaneous remote sensing measurements to 8-day mean daily-sums. <i>Agricultural and Forest Meteorology</i> , 2012 , 152, 212-222	5.8	90
151	Sensitivity of water and carbon fluxes to climate changes from 1960 to 2100 in European forest ecosystems. <i>Agricultural and Forest Meteorology</i> , 2006 , 141, 35-56	5.8	90
150	The growth respiration component in eddy CO ₂ flux from a <i>Quercus ilex</i> mediterranean forest. <i>Global Change Biology</i> , 2004 , 10, 1460-1469	11.4	89

149	On the differential advantages of evergreenness and deciduousness in mediterranean oak woodlands: a flux perspective 2010 , 20, 1583-97		88
148	Phenological responses to extreme droughts in a Mediterranean forest. <i>Global Change Biology</i> , 2011 , 17, 1036-1048	11.4	87
147	Seasonal and annual changes in leaf $\delta^{13}C$ in two co-occurring Mediterranean oaks: relations to leaf growth and drought progression. <i>Functional Ecology</i> , 1998 , 12, 778-785	5.6	86
146	Co-occurrence of trees with different leaf habit: A functional approach on Mediterranean oaks. <i>Acta Oecologica</i> , 1998 , 19, 195-204	1.7	86
145	Tracking seasonal drought effects on ecosystem light use efficiency with satellite-based PRI in a Mediterranean forest. <i>Remote Sensing of Environment</i> , 2009 , 113, 1101-1111	13.2	85
144	Effect of elevated CO ₂ on monoterpene emission of young <i>Quercus ilex</i> trees and its relation to structural and ecophysiological parameters. <i>Tree Physiology</i> , 2001 , 21, 437-45	4.2	85
143	A regional Sahelian grassland model to be coupled with multispectral satellite data. I: Model description and validation. <i>Remote Sensing of Environment</i> , 1995 , 52, 181-193	13.2	83
142	The temporal response to drought in a Mediterranean evergreen tree: comparing a regional precipitation gradient and a throughfall exclusion experiment. <i>Global Change Biology</i> , 2013 , 19, 2413-26	11.4	82
141	Urgent need for a common metric to make precipitation manipulation experiments comparable. <i>New Phytologist</i> , 2012 , 195, 518-522	9.8	82
140	Thermal optimality of net ecosystem exchange of carbon dioxide and underlying mechanisms. <i>New Phytologist</i> , 2012 , 194, 775-783	9.8	81
139	Do photosynthetic limitations of evergreen <i>Quercus ilex</i> leaves change with long-term increased drought severity?. <i>Plant, Cell and Environment</i> , 2010 , 33, 863-75	8.4	80
138	Some determinants of the spatio-temporal fire cycle in a mediterranean landscape (Corsica, France). <i>Landscape Ecology</i> , 2003 , 18, 665-674	4.3	79
137	Comparative water relations of four Mediterranean oak species. <i>Plant Ecology</i> , 1992 , 99-100, 177-184		79
136	Impacts of droughts and extreme-temperature events on gross primary production and ecosystem respiration: a systematic assessment across ecosystems and climate zones. <i>Biogeosciences</i> , 2018 , 15, 1293-1318	4.6	79
135	Internal remobilization of carbohydrates, lipids, nitrogen and phosphorus in the Mediterranean evergreen oak <i>Quercus ilex</i> . <i>Tree Physiology</i> , 2001 , 21, 9-17	4.2	74
134	The differential role of mechanisms for drought resistance in a Mediterranean evergreen shrub: a simulation approach. <i>Plant, Cell and Environment</i> , 1993 , 16, 35-44	8.4	74
133	Stomatal regulation of photosynthesis in apple leaves: evidence for different water-use strategies between two cultivars. <i>Annals of Botany</i> , 2007 , 100, 1347-56	4.1	71
132	Exploring the relationships between reflectance and anatomical and biochemical properties in <i>Quercus ilex</i> leaves. <i>New Phytologist</i> , 1999 , 143, 351-364	9.8	71

131	Change in hydraulic traits of Mediterranean <i>Quercus ilex</i> subjected to long-term throughfall exclusion. <i>Tree Physiology</i> , 2010 , 30, 1026-36	4.2	70
130	Seasonal pattern of monoterpene synthase activities in leaves of the evergreen tree <i>Quercus ilex</i> . <i>Physiologia Plantarum</i> , 2002 , 114, 354-360	4.6	70
129	Self-organized criticality of wildfires ecologically revisited. <i>Ecological Modelling</i> , 2001 , 141, 307-311	3	68
128	Identification of vegetation and soil carbon pools out of equilibrium in a process model via eddy covariance and biometric constraints. <i>Global Change Biology</i> , 2010 , 16, 2813-2829	11.4	67
127	Characterisation of ecosystem water-use efficiency of european forests from eddy covariance measurements		66
126	Long-term forest dynamic after land abandonment in a fire prone Mediterranean landscape (central Corsica, France). <i>Landscape Ecology</i> , 2005 , 20, 101-112	4.3	65
125	Coupling a grassland ecosystem model with Landsat imagery for a 10-year simulation of carbon and water budgets. <i>Remote Sensing of Environment</i> , 2001 , 78, 131-149	13.2	65
124	Morphological and phenological shoot plasticity in a Mediterranean evergreen oak facing long-term increased drought. <i>Oecologia</i> , 2012 , 169, 565-77	2.9	64
123	PAR extinction in shortgrass ecosystems: effects of clumping, sky conditions and soil albedo. <i>Agricultural and Forest Meteorology</i> , 2000 , 105, 21-41	5.8	64
122	Simulating the dynamics of a vegetation mosaic: a spatialized functional model. <i>Ecological Modelling</i> , 1994 , 71, 107-130	3	64
121	Drought reduced monoterpene emissions from the evergreen Mediterranean oak <i>Quercus ilex</i>: results from a throughfall displacement experiment. <i>Biogeosciences</i> , 2009 , 6, 1167-1180	4.6	64
120	The key-role of topsoil moisture on CO ₂ efflux from a Mediterranean <i>Quercus ilex</i> forest. <i>Annals of Forest Science</i> , 2003 , 60, 519-526	3.1	63
119	Isoprenoid emissions of <i>Quercus</i> spp. (<i>Q. suber</i> and <i>Q. ilex</i>) in mixed stands contrasting in interspecific genetic introgression. <i>New Phytologist</i> , 2004 , 163, 573-584	9.8	63
118	An examination of the interaction between climate, soil and leaf area index in a <i>Quercus ilex</i> ecosystem. <i>Annals of Forest Science</i> , 2003 , 60, 153-161	3.1	62
117	A generic process-based Simulator for mediterranean landscapes (SIERRA): design and validation exercises. <i>Forest Ecology and Management</i> , 2001 , 147, 75-97	3.9	62
116	Relationships between photochemical reflectance index and light-use efficiency in deciduous and evergreen broadleaf forests. <i>Remote Sensing of Environment</i> , 2014 , 144, 73-84	13.2	61
115	Downscaling MODIS-derived maps using GIS and boosted regression trees: The case of frost occurrence over the arid Andean highlands of Bolivia. <i>Remote Sensing of Environment</i> , 2011 , 115, 117-129	13.2	61
114	Stand age and species richness dampen interannual variation of ecosystem-level photosynthetic capacity. <i>Nature Ecology and Evolution</i> , 2017 , 1, 48	12.3	60

113	How growth conditions affect the capacity of <i>Quercus ilex</i> leaves to emit monoterpenes. <i>New Phytologist</i> , 2003 , 158, 61-73	9.8	60
112	Impact of drought on seasonal monoterpene emissions from <i>Quercus ilex</i> in southern France. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 15-1-ACH 15-9		60
111	How reliable are methods to assess xylem vulnerability to cavitation? The issue of 'open vessel' artifact in oaks. <i>Tree Physiology</i> , 2014 , 34, 894-905	4.2	57
110	Remote sensing of ecosystem light use efficiency with MODIS-based PRI. <i>Biogeosciences</i> , 2011 , 8, 189-206	4.6	57
109	Is selective thinning an adequate practice for adapting <i>Quercus ilex</i> coppices to climate change?. <i>Annals of Forest Science</i> , 2011 , 68, 575-585	3.1	57
108	Modelling of daily fluxes of water and carbon from shortgrass steppes. <i>Agricultural and Forest Meteorology</i> , 2000 , 100, 137-153	5.8	57
107	The Cohesion-Tension Theory. <i>New Phytologist</i> , 2004 , 163, 451-452	9.8	54
106	Photosynthetic sensitivity to drought varies among populations of <i>Quercus ilex</i> along a rainfall gradient. <i>Functional Plant Biology</i> , 2012 , 39, 25-37	2.7	52
105	Time Course of Radiation Use Efficiency in a Shortgrass Ecosystem Consequences for Remotely Sensed Estimation of Primary Production. <i>Remote Sensing of Environment</i> , 2000 , 71, 43-55	13.2	52
104	A regional Sahelian grassland model to be coupled with multispectral satellite data. II: Toward the control of its simulations by remotely sensed indices. <i>Remote Sensing of Environment</i> , 1995 , 52, 194-206	13.2	51
103	Simulating carbon and water flows and growth in a Mediterranean evergreen <i>Quercus ilex</i> coppice using the FOREST-BGC model. <i>Forest Ecology and Management</i> , 2002 , 164, 121-136	3.9	50
102	Seasonal hysteresis of net ecosystem exchange in response to temperature change: patterns and causes. <i>Global Change Biology</i> , 2011 , 17, 3102-3114	11.4	49
101	Remotely-sensed detection of effects of extreme droughts on gross primary production. <i>Scientific Reports</i> , 2016 , 6, 28269	4.9	48
100	Modelling the drought impact on monoterpene fluxes from an evergreen Mediterranean forest canopy. <i>Oecologia</i> , 2009 , 160, 213-23	2.9	47
99	Differential regional responses in drought length, intensity and timing to recent climate changes in a Mediterranean forested ecosystem. <i>Climatic Change</i> , 2013 , 117, 103-117	4.5	46
98	Preface paper to the Semi-Arid Land-Surface-Atmosphere (SALSA) Program special issue. <i>Agricultural and Forest Meteorology</i> , 2000 , 105, 3-20	5.8	44
97	Evaluating water fluxes of field-grown alfalfa from diurnal observations of natural isotope concentrations, energy budget and ecophysiological parameters. <i>Agricultural and Forest Meteorology</i> , 1989 , 48, 263-283	5.8	44
96	Climate controls over the net carbon uptake period and amplitude of net ecosystem production in temperate and boreal ecosystems. <i>Agricultural and Forest Meteorology</i> , 2017 , 243, 9-18	5.8	43

95	Quercus ilex recruitment in a drier world: A multi-stage demographic approach. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2013 , 15, 106-117	3	43
94	Ecotone Dependent Recruitment of a Desert Shrub, <i>Flourensia cernua</i> , in Vegetation Stripes. <i>Oikos</i> , 1993 , 68, 107	4	43
93	Seed supply, drought, and grazing determine spatio-temporal patterns of recruitment for native and introduced invasive pines in grasslands. <i>Diversity and Distributions</i> , 2008 , 14, 862-874	5	42
92	Measurement and modelling of primary production and water use in a south Tunisian steppe. <i>Journal of Arid Environments</i> , 1982 , 5, 77-90	2.5	42
91	Stem CO ₂ efflux and its contribution to ecosystem CO ₂ efflux decrease with drought in a Mediterranean forest stand. <i>Agricultural and Forest Meteorology</i> , 2014 , 195-196, 61-72	5.8	41
90	Mediterranean terrestrial ecosystems: research priorities on global change effects. <i>Global Ecology and Biogeography</i> , 1998 , 7, 157-166	6.1	41
89	Directional effect on radiative surface temperature measurements over a semiarid grassland site. <i>Remote Sensing of Environment</i> , 2001 , 76, 360-372	13.2	41
88	Quercus ilex Transpiration as Affected by a Prolonged Drought Period. <i>Biologia Plantarum</i> , 2003 , 46, 49-55	2.1	40
87	Stomatal conductance of some grapevines growing in the field under a Mediterranean environment. <i>Agricultural and Forest Meteorology</i> , 1990 , 51, 107-121	5.8	40
86	Modelling transpiration in holm-oak savannah: scaling up from the leaf to the tree scale. <i>Agricultural and Forest Meteorology</i> , 1997 , 87, 273-289	5.8	39
85	Drought Influences the Accuracy of Simulated Ecosystem Fluxes: A Model-Data Meta-analysis for Mediterranean Oak Woodlands. <i>Ecosystems</i> , 2013 , 16, 749-764	3.9	37
84	Non-steady-state modelling of water transfer in a Mediterranean evergreen canopy. <i>Agricultural and Forest Meteorology</i> , 2001 , 108, 67-83	5.8	36
83	Drought and photosystem II activity in two Mediterranean oaks. <i>Annales Des Sciences Forestières</i> , 1996 , 53, 255-262		36
82	Quantifying the influence of climate and biological drivers on the interannual variability of carbon exchanges in European forests through process-based modelling. <i>Agricultural and Forest Meteorology</i> , 2012 , 154-155, 99-112	5.8	35
81	Vegetation-specific model parameters are not required for estimating gross primary production. <i>Ecological Modelling</i> , 2014 , 292, 1-10	3	32
80	How do variations in the temporal distribution of rainfall events affect ecosystem fluxes in seasonally water-limited Northern Hemisphere shrublands and forests?. <i>Biogeosciences</i> , 2012 , 9, 1007-1024	4.6	32
79	Soil carbon model alternatives for ECHAM5/JSBACH climate model: Evaluation and impacts on global carbon cycle estimates. <i>Journal of Geophysical Research</i> , 2011 , 116,		32
78	How growth conditions affect the capacity of Quercus ilex leaves to emit monoterpenes. <i>New Phytologist</i> , 2003 , 158, 61-73	9.8	32

77	Influence of Water Stress on Grapevines Growing in the Field: From Leaf to Whole-Plant Response. <i>Functional Plant Biology</i> , 1993 , 20, 143	2.7	32
76	Combined effects of climate, resource availability, and plant traits on biomass produced in a Mediterranean rangeland. <i>Ecology</i> , 2014 , 95, 737-48	4.6	31
75	How drought severity constrains gross primary production(GPP) and its partitioning among carbon pools in a &i>Quercus ilex&/i> coppice?. <i>Biogeosciences</i> , 2014 , 11, 6855-6869	4.6	31
74	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
73	How errors on meteorological variables impact simulated ecosystem fluxes: a case study for six French sites. <i>Biogeosciences</i> , 2012 , 9, 2537-2564	4.6	30
72	Opposite changes in leaf dark respiration and soluble sugars with drought in two Mediterranean oaks. <i>Functional Plant Biology</i> , 2011 , 38, 1004-1015	2.7	30
71	Modelling leaf gas exchange in holm-oak trees in southern Spain. <i>Agricultural and Forest Meteorology</i> , 1999 , 95, 203-223	5.8	29
70	Optimization of carbon gain in canopies of Mediterranean evergreen oaks. <i>Annales Des Sciences Forestières</i> , 1996 , 53, 547-560		29
69	Quercus ilex facing water stress: a functional equilibrium hypothesis. <i>Plant Ecology</i> , 1992 , 99-100, 147-153		29
68	Intraspecific variability of monoterpene composition emitted by Quercus ilex leaves. <i>Canadian Journal of Forest Research</i> , 2001 , 31, 174-180	1.9	28
67	Hierarchy and Productivity of Mediterranean-Type Ecosystems 2001 , 315-344		27
66	A survey of several agroclimatic soil water balance models with reference to their spatial application. <i>European Journal of Agronomy</i> , 1995 , 4, 1-14	5	27
65	Comparison of hydrologically simulated and remotely sensed actual evapotranspiration from some Mediterranean vegetation formations. <i>International Journal of Remote Sensing</i> , 1985 , 6, 1475-1481	3.1	27
64	Retrieving leaf conductances from sap flows in a mixed Mediterranean woodland: a scaling exercise. <i>Annales Des Sciences Forestières</i> , 1998 , 55, 173-190		26
63	Local variations of ecosystem functions in Mediterranean evergreen oak woodland. <i>Annales Des Sciences Forestières</i> , 1996 , 53, 561-570		26
62	Water Balance of Mediterranean Ecosystems Under a Changing Climate. <i>Ecological Studies</i> , 1995 , 386-407.	1	26
61	Leaf CO ₂ efflux is attenuated by acclimation of respiration to heat and drought in a Mediterranean tree. <i>Functional Ecology</i> , 2011 , 25, 983-995	5.6	25
60	Évolution du potentiel hydrique foliaire et de la conductance stomatique de quatre chênes méditerranéens lors d'une période de dessèchement. <i>Annales Des Sciences Forestières</i> , 1991 , 48, 561-573		24

59	Panarchy of an indigenous agroecosystem in the globalized market: The quinoa production in the Bolivian Altiplano. <i>Global Environmental Change</i> , 2016 , 39, 195-204	10.1	23
58	Spatial Pattern of the Seasonal Drought/Burned Area Relationship across Brazilian Biomes: Sensitivity to Drought Metrics and Global Remote-Sensing Fire Products. <i>Climate</i> , 2017 , 5, 42	3.1	23
57	Recent climate hiatus revealed dual control by temperature and drought on the stem growth of Mediterranean <i>Quercus ilex</i> . <i>Global Change Biology</i> , 2017 , 23, 42-55	11.4	22
56	Within-tree variation in transpiration in isolated evergreen oak trees: evidence in support of the pipe model theory. <i>Tree Physiology</i> , 2001 , 21, 409-14	4.2	22
55	Water balance and pattern of soil water uptake in a peach orchard. <i>Agricultural Water Management</i> , 1986 , 11, 145-158	5.9	22
54	The Sustainability of Quinoa Production in Southern Bolivia: from Misrepresentations to Questionable Solutions. Comments on Jacobsen (2011, <i>J. Agron. Crop Sci.</i> 197: 390B99). <i>Journal of Agronomy and Crop Science</i> , 2012 , 198, 314-319	3.9	21
53	Carbon and water vapor fluxes over four forests in two contrasting climatic zones. <i>Agricultural and Forest Meteorology</i> , 2013 , 180, 211-224	5.8	21
52	Detecting the critical periods that underpin interannual fluctuations in the carbon balance of European forests. <i>Journal of Geophysical Research</i> , 2010 , 115,		21
51	Functional changes in the control of carbon fluxes after 3 years of increased drought in a Mediterranean evergreen forest?. <i>Global Change Biology</i> , 2009 , 16, 2461	11.4	21
50	Gas exchange and leaf aging in an evergreen oak: causes and consequences for leaf carbon balance and canopy respiration. <i>Tree Physiology</i> , 2012 , 32, 464-77	4.2	21
49	Contrasted effects of water limitation on leaf functions and growth of two emergent co-occurring plant species, <i>Cladium mariscus</i> and <i>Phragmites australis</i> . <i>Aquatic Botany</i> , 2006 , 84, 191-198	1.8	21
48	Intraspecific variability of monoterpene composition emitted by <i>Quercus ilex</i> leaves. <i>Canadian Journal of Forest Research</i> , 2001 , 31, 174-180	1.9	21
47	Long-term physiological and morphological acclimation by the evergreen shrub <i>Buxus sempervirens</i> L. to understory and canopy gap light intensities. <i>Trees - Structure and Function</i> , 2012 , 26, 479-491	2.6	20
46	Scaling-up leaf monoterpene emissions from a water limited <i>Quercus ilex</i> woodland. <i>Atmospheric Environment</i> , 2011 , 45, 2888-2897	5.3	19
45	Identifying spatial patterns of Mediterranean landscapes from geostatistical analysis of remotely-sensed data. <i>International Journal of Remote Sensing</i> , 1994 , 15, 2337-2350	3.1	19
44	Évolution de l'occupation des terres et ressources en eau en région Méditerranéenne karstique. <i>Journal of Hydrology</i> , 1987 , 93, 339-357	6	19
43	Functional Attributes in Mediterranean-Type Ecosystems 2007 , 285-312		19
42	Towards a more harmonized processing of eddy covariance CO ₂ fluxes: algorithms and uncertainty estimation		18

41	Adaptative above-ground biomass, stand density and leaf water potential to droughts and clearing in <i>Guiera senegalensis</i> , a dominant shrub in Sahelian fallows (Niger). <i>Journal of Tropical Ecology</i> , 2005 , 21, 203-213	1.3	17
40	Ectomycorrhizal fungal diversity in <i>Quercus ilex</i> Mediterranean woodlands: variation among sites and over soil depth profiles in hyphal exploration types, species richness and community composition. <i>Symbiosis</i> , 2013 , 61, 1-12	3	16
39	Testing an area-weighted model for albedo or surface temperature of mixed pixels in Mediterranean woodlands. <i>International Journal of Remote Sensing</i> , 1990 , 11, 1495-1499	3.1	16
38	Quinta: A Physiologically-Based Growth Simulator for Drought Adapted Woody Plant Species 1989 , 135-168		16
37	Changes in aboveground structure and resistances to water uptake in <i>Quercus coccifera</i> along a rainfall gradient 1987 , 191-200		15
36	Soil Drought Anomalies in MODIS GPP of a Mediterranean Broadleaved Evergreen Forest. <i>Remote Sensing</i> , 2015 , 7, 1154-1180	5	10
35	Drought reduced monoterpene emissions from <i>Quercus ilex</i> trees: results from a throughfall displacement experiment within a forest ecosystem		9
34	Effects of elevated carbon dioxide on leaf gas exchange and growth of cork-oak (<i>Quercus suber</i> L) seedlings. <i>Annales Des Sciences Forestières</i> , 1996 , 53, 461-467		9
33	Mediterranean Ecosystems 2001 ,		8
32	Quality control of CarboEurope flux data [Part I: Footprint analyses to evaluate sites in forest ecosystems		8
31	How errors on meteorological variables impact simulated ecosystem fluxes: a case study for six French sites		8
30	Remote Sensing of Canopy Photosynthetic Performances: Two Complementary Ways for Assessing the Photochemical Reflectance Index. <i>Photosynthetica</i> , 1999 , 37, 239-247	2.2	7
29	Spatial variation and temporal persistence of grapevine response to a soil texture gradient. <i>Geoderma</i> , 1995 , 68, 67-78	6.7	7
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23	Impacts of droughts and extreme temperature events on gross primary production and ecosystem respiration: a systematic assessment across ecosystems and climate zones		3
22	How drought severity constrains GPP and its partitioning among carbon pools in a <i>Quercus ilex</i> coppice?		3
21	Remote sensing of ecosystem light use efficiency with MODIS-based PRI [the DOs and DON'Ts		3
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12	A simulation model for predicting water balance and canopy water potential of a <i>Quercus coccifera</i> garrigue after fire. <i>Ecologia Mediterranea</i> , 1988 , 14, 95-99	0	2
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10	Reply to comment by Llorens et al. on "Modelling rainfall interception in a Mediterranean <i>Quercus ilex</i> ecosystem: Lesson from a throughfall exclusion experiment" [Journal of Hydrology 357 (2008) 57-66]. <i>Journal of Hydrology</i> , 2009 , 365, 142-143	6	1
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