Markus Reichstein

List of Publications by Year in Descending Order

327 papers	45,515 citations	96 h-index	211 g-index
365 ext. papers	53,651 ext. citations	9.2 avg, IF	7.16 L-index

#	Paper	IF	Citations
327	Contrasting biophysical and societal impacts of hydro-meteorological extremes. *Environmental Research Letters*, **2022**, 17, 014044	6.2	1
326	On the potential of Sentinel-2 for estimating Gross Primary Production. *IEEE Transactions on Geoscience and Remote Sensing*, **2022**, 1-1	8.1	1
325	Towards hybrid modeling of the global hydrological cycle. *Hydrology and Earth System Sciences*, **2022**, 26, 1579-1614	5.5	2
324	Invited perspectives: A research agenda towards disaster risk management pathways in multi-(hazard-)risk assessment. *Natural Hazards and Earth System Sciences*, **2022**, 22, 1487-1497	3.9	0
323	Heatwave breaks down the linearity between sun-induced fluorescence and gross primary production.. *New Phytologist*, **2021**,	9.8	6
322	Climatic and soil factors explain the two-dimensional spectrum of global plant trait variation.. *Nature Ecology and Evolution*, **2021**,	12.3	6
321	Time-Scale Dependent Relations Between Earth Observation Based Proxies of Vegetation Productivity. *Geophysical Research Letters*, **2021**, 48, e2021GL093285	4.9	0
320	Machine-learning-based evidence and attribution mapping of 100,000 climate impact studies. *Nature Climate Change*, **2021**, 11, 966-972	21.4	14
319	Vulnerability of European ecosystems to two compound dry and hot summers in 2018 and 2019. *Earth System Dynamics*, **2021**, 12, 1015-1035	4.8	6
318	Where Are Global Vegetation Greening and Browning Trends Significant?. *Geophysical Research Letters*, **2021**, 48, e2020GL091496	4.9	20
317	Soil moisture-atmosphere feedback dominates land carbon uptake variability. *Nature*, **2021**, 592, 65-69	50.4	61
316	More floods, fires and cyclones - plan for domino effects on sustainability goals. *Nature*, **2021**, 592, 347-349	50.4	11
315	Functional convergence of biosphere–atmosphere interactions in response to meteorological conditions. *Biogeosciences*, **2021**, 18, 2379-2404	4.6	2
314	senSCOPE: Modeling mixed canopies combining green and brown senesced leaves. Evaluation in a Mediterranean Grassland. *Remote Sensing of Environment*, **2021**, 257, 112352	13.2	7
313	How Nitrogen and Phosphorus Availability Change Water Use Efficiency in a Mediterranean Savanna Ecosystem. *Journal of Geophysical Research G: Biogeosciences*, **2021**, 126, e2020JG006005	3.7	1
312	Revisiting Global Vegetation Controls Using Multi-Layer Soil Moisture. *Geophysical Research Letters*, **2021**, 48, e2021GL092856	4.9	3
311	A unified vegetation index for quantifying the terrestrial biosphere. *Science Advances*, **2021**, 7,	14.3	35

310	Increasing impact of warm droughts on northern ecosystem productivity over recent decades. *Nature Climate Change*, **2021**, 11, 772-779	21.4	14
309	The three major axes of terrestrial ecosystem function. *Nature*, **2021**, 598, 468-472	50.4	8
308	A Data-Driven Approach to Partitioning Net Ecosystem Exchange Using a Deep State Space Model. *IEEE Access*, **2021**, 9, 107873-107883	3.5	0
307	Vegetation modulates the impact of climate extremes on gross primary production. *Biogeosciences*, **2021**, 18, 39-53	4.6	10
306	Direct and seasonal legacy effects of the 2018 heat wave and drought on European ecosystem productivity. *Science Advances*, **2020**, 6, eaba2724	14.3	85
305	Partitioning net carbon dioxide fluxes into photosynthesis and respiration using neural networks. *Global Change Biology*, **2020**, 26, 5235-5253	11.4	18
304	Large-scale biospheric drought response intensifies linearly with drought duration in arid regions. *Biogeosciences*, **2020**, 17, 2647-2656	4.6	17
303	Accounting for multiple testing in the analysis of spatio-temporal environmental data. *Environmental and Ecological Statistics*, **2020**, 27, 293-318	2.2	7
302	Towards a global understanding of vegetation□climate dynamics at multiple timescales. *Biogeosciences*, **2020**, 17, 945-962	4.6	17
301	Critical Soil Moisture Derived From Satellite Observations Over Europe. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2019JD031672	4.4	23
300	Combination of energy limitation and sorption capacity explains 14C depth gradients. *Soil Biology and Biochemistry*, **2020**, 148, 107912	7.5	2
299	The Low Dimensionality of Development. *Social Indicators Research*, **2020**, 150, 999-1020	2.7	5
298	Nutrients and water availability constrain the seasonality of vegetation activity in a Mediterranean ecosystem. *Global Change Biology*, **2020**, 26, 4379-4400	11.4	11
297	Scaling carbon fluxes from eddy covariance sites to globe: synthesis and evaluation of the FLUXCOM approach. *Biogeosciences*, **2020**, 17, 1343-1365	4.6	134
296	Discovering Differential Equations from Earth Observation Data **2020**,		1
295	Summarizing the state of the terrestrial biosphere in few dimensions. *Biogeosciences*, **2020**, 17, 2397-2424	4.6	9
294	Ecosystem physio-phenology revealed using circular statistics. *Biogeosciences*, **2020**, 17, 3991-4006	4.6	2
293	Apparent ecosystem carbon turnover time: uncertainties and robust features. *Earth System Science Data*, **2020**, 12, 2517-2536	10.5	6

292	ADVANCING DEEP LEARNING FOR EARTH SCIENCES: FROM HYBRID MODELING TO INTERPRETABILITY **2020**,		2
291	Mesophyll conductance in land surface models: effects on photosynthesis and transpiration. *Plant Journal*, **2020**, 101, 858-873	6.9	15
290	Advancing the Understanding of Adaptive Capacity of Social-Ecological Systems to Absorb Climate Extremes. *Earth's Future*, **2020**, 8, e2019EF001221	7.9	11
289	TRY plant trait database - enhanced coverage and open access. *Global Change Biology*, **2020**, 26, 119-188	11.4	399
288	Outlook: Challenges for societal resilience under climate extremes **2020**, 341-353		2
287	Ecosystem transpiration and evaporation: Insights from three water flux partitioning methods across FLUXNET sites. *Global Change Biology*, **2020**, 26, 6916-6930	11.4	31
286	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. *Scientific Data*, **2020**, 7, 225	8.2	256
285	Constraining Uncertainty in Projected Gross Primary Production With Machine Learning. *Journal of Geophysical Research G: Biogeosciences*, **2020**, 125, e2019JG005619	3.7	10
284	The COVID-19 lockdowns: a window into the Earth System. *Nature Reviews Earth & Environment*, **2020**, 1, 470-481	30.2	90
283	Persistence of soil organic carbon caused by functional complexity. *Nature Geoscience*, **2020**, 13, 529-534	18.3	131
282	Impacts of extreme summers on European ecosystems: a comparative analysis of 2003, 2010 and 2018. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2020**, 375, 20190507	5.8	23
281	Drought and heatwave impacts on semi-arid ecosystems' carbon fluxes along a precipitation gradient. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2020**, 375, 20190519	5.8	12
280	Asymmetric responses of ecosystem productivity to rainfall anomalies vary inversely with mean annual rainfall over the conterminous United States. *Global Change Biology*, **2020**, 26, 6959-6973	11.4	9
279	Impact of temporal precipitation variability on ecosystem productivity. *Wiley Interdisciplinary Reviews: Water*, **2020**, 7, e1481	5.7	5
278	Earth system data cubes unravel global multivariate dynamics. *Earth System Dynamics*, **2020**, 11, 201-234	4.8	17
277	Inferring plant functional diversity from space: the potential of Sentinel-2. *Remote Sensing of Environment*, **2019**, 233, 111368	13.2	31
276	Reviews and syntheses: Turning the challenges of partitioning ecosystem evaporation and transpiration into opportunities. *Biogeosciences*, **2019**, 16, 3747-3775	4.6	75
275	Inferring causation from time series in Earth system sciences. *Nature Communications*, **2019**, 10, 2553	17.4	153

274	The FLUXCOM ensemble of global land-atmosphere energy fluxes. *Scientific Data*, **2019**, 6, 74	8.2	152
273	Integrating Aquatic and Terrestrial Perspectives to Improve Insights Into Organic Matter Cycling at the Landscape Scale. *Frontiers in Earth Science*, **2019**, 7,	3.5	12
272	N : P stoichiometry and habitat effects on Mediterranean savanna seasonal root dynamics. *Biogeosciences*, **2019**, 16, 1883-1901	4.6	9
271	Memory effects of climate and vegetation affecting net ecosystem CO2 fluxes in global forests. *PLoS ONE*, **2019**, 14, e0211510	3.7	18
270	Widespread inhibition of daytime ecosystem respiration. *Nature Ecology and Evolution*, **2019**, 3, 407-415	12.3	60
269	Aspects of Forest Biomass in the Earth System: Its Role and Major Unknowns. *Surveys in Geophysics*, **2019**, 40, 693-707	7.6	21
268	Carbon–water flux coupling under progressive drought. *Biogeosciences*, **2019**, 16, 2557-2572	4.6	14
267	Earth system data cubes unravel global multivariate dynamics **2019**,		2
266	Identifying Dynamic Memory Effects on Vegetation State Using Recurrent Neural Networks. *Frontiers in Big Data*, **2019**, 2, 31	2.8	7
265	A perspective on Gaussian processes for Earth observation. *National Science Review*, **2019**, 6, 616-618	10.8	28
264	Nonlinear Causal Link Estimation Under Hidden Confounding with an Application to Time Series Anomaly Detection. *Lecture Notes in Computer Science*, **2019**, 261-273	0.9	1
263	Predicting Landscapes from Environmental Conditions Using Generative Networks. *Lecture Notes in Computer Science*, **2019**, 203-217	0.9	0
262	Effects of mesophyll conductance on vegetation responses to elevated CO concentrations in a land surface model. *Global Change Biology*, **2019**, 25, 1820-1838	11.4	17
261	Deep learning and process understanding for data-driven Earth system science. *Nature*, **2019**, 566, 195-204	38.4	974
260	Nitrogen and Phosphorus effect on Sun-Induced Fluorescence and Gross Primary Productivity in Mediterranean Grassland. *Remote Sensing*, **2019**, 11, 2562	5	13
259	Physics-Constrained Machine Learning of Evapotranspiration. *Geophysical Research Letters*, **2019**, 46, 14496-14507	4.9	48
258	Estimation of forest aboveground biomass and uncertainties by integration of field measurements, airborne LiDAR, and SAR and optical satellite data in Mexico. *Carbon Balance and Management*, **2018**, 13, 5	3.6	46
257	Inter-annual variability of net and gross ecosystem carbon fluxes: A review. *Agricultural and Forest Meteorology*, **2018**, 249, 520-533	5.8	165

256	Towards physiologically meaningful water-use efficiency estimates from eddy covariance data. *Global Change Biology*, **2018**, 24, 694-710	11.4	72
255	Drivers of spatio-temporal variability of carbon dioxide and energy fluxes in a Mediterranean savanna ecosystem. *Agricultural and Forest Meteorology*, **2018**, 262, 258-278	5.8	31
254	Water-stress-induced breakdown of carbon–water relations: indicators from diurnal FLUXNET patterns. *Biogeosciences*, **2018**, 15, 2433-2447	4.6	15
253	Basic and extensible post-processing of eddy covariance flux data with REddyProc. *Biogeosciences*, **2018**, 15, 5015-5030	4.6	263
252	Using Near-Infrared-Enabled Digital Repeat Photography to Track Structural and Physiological Phenology in Mediterranean Tree–Grass Ecosystems. *Remote Sensing*, **2018**, 10, 1293	5	43
251	Drought, Heat, and the Carbon Cycle: a Review. *Current Climate Change Reports*, **2018**, 4, 266-286	9	73
250	dimRed and coRanking - Unifying Dimensionality Reduction in R. *R Journal*, **2018**, 10, 342	3.3	19
249	Upscaled diurnal cycles of land–atmosphere fluxes: a new global half-hourly data product. *Earth System Science Data*, **2018**, 10, 1327-1365	10.5	52
248	Modelling Landsurface Time-Series with Recurrent Neural Nets **2018**,		5
247	**2018**,		3
246	Coupling Water and Carbon Fluxes to Constrain Estimates of Transpiration: The TEA Algorithm. *Journal of Geophysical Research G: Biogeosciences*, **2018**, 123, 3617-3632	3.7	21
245	A methodology to derive global maps of leaf traits using remote sensing and climate data. *Remote Sensing of Environment*, **2018**, 218, 69-88	13.2	58
244	Quantifying the effect of forest age in annual net forest carbon balance. *Environmental Research Letters*, **2018**, 13, 124018	6.2	41
243	Contrasting biosphere responses to hydrometeorological extremes: revisiting the 2010 western Russian heatwave. *Biogeosciences*, **2018**, 15, 6067-6085	4.6	34
242	Potential of Multi-Temporal ALOS-2 PALSAR-2 ScanSAR Data for Vegetation Height Estimation in Tropical Forests of Mexico. *Remote Sensing*, **2018**, 10, 1277	5	10
241	Partitioning Eddy Covariance Water Flux Components Using Physiological and Micrometeorological Approaches. *Journal of Geophysical Research G: Biogeosciences*, **2018**, 123, 3353-3370	3.7	28
240	Following the Turnover of Soil Bioavailable Phosphate in Mediterranean Savanna by Oxygen Stable Isotopes. *Journal of Geophysical Research G: Biogeosciences*, **2018**, 123, 1850-1862	3.7	12
239	Warm Winter, Wet Spring, and an Extreme Response in Ecosystem Functioning on the Iberian Peninsula. *Bulletin of the American Meteorological Society*, **2018**, 99, S80-S85	6.1	4

238	Impacts of droughts and extreme-temperature events on gross primary production and ecosystem respiration: a systematic assessment across ecosystems and climate zones. *Biogeosciences*, **2018**, 15, 1293-1318	4.6	79
237	Stand age and species richness dampen interannual variation of ecosystem-level photosynthetic capacity. *Nature Ecology and Evolution*, **2017**, 1, 48	12.3	60
236	Compensatory water effects link yearly global land CO sink changes to temperature. *Nature*, **2017**, 541, 516-520	50.4	341
235	Evaluation of eddy covariance latent heat fluxes with independent lysimeter and sapflow estimates in a Mediterranean savannah ecosystem. *Agricultural and Forest Meteorology*, **2017**, 236, 87-99	5.8	48
234	Plant functional traits and canopy structure control the relationship between photosynthetic CO uptake and far-red sun-induced fluorescence in a Mediterranean grassland under different nutrient availability. *New Phytologist*, **2017**, 214, 1078-1091	9.8	116
233	Coverage of high biomass forests by the ESA BIOMASS mission under defense restrictions. *Remote Sensing of Environment*, **2017**, 196, 154-162	13.2	53
232	Global distribution of groundwater-vegetation spatial covariation. *Geophysical Research Letters*, **2017**, 44, 4134-4142	4.9	46
231	Fluxes all of the time? A primer on the temporal representativeness of FLUXNET. *Journal of Geophysical Research G: Biogeosciences*, **2017**, 122, 289-307	3.7	76
230	Adaptation of microbial resource allocation affects modelled long term soil organic matter and nutrient cycling. *Soil Biology and Biochemistry*, **2017**, 115, 322-336	7.5	19
229	The importance of radiation for semiempirical water-use efficiency models. *Biogeosciences*, **2017**, 14, 3015-3026	4.6	16
228	Refining multi-model projections of temperature extremes by evaluation against land–atmosphere coupling diagnostics. *Earth System Dynamics*, **2017**, 8, 387-403	4.8	38
227	Multivariate anomaly detection for Earth observations: a comparison of algorithms and feature extraction techniques. *Earth System Dynamics*, **2017**, 8, 677-696	4.8	19
226	Reviews and syntheses: An empirical spatiotemporal description of the global surface–atmosphere carbon fluxes: opportunities and data limitations. *Biogeosciences*, **2017**, 14, 3685-3703	4.6	37
225	Have precipitation extremes and annual totals been increasing in the world's dry regions over the last 60 years?. *Hydrology and Earth System Sciences*, **2017**, 21, 441-458	5.5	17
224	Contrasting and interacting changes in simulated spring and summer carbon cycle extremes in European ecosystems. *Environmental Research Letters*, **2017**, 12, 075006	6.2	26
223	How Much CO2 Is Taken Up by the European Terrestrial Biosphere?. *Bulletin of the American Meteorological Society*, **2017**, 98, 665-671	6.1	23
222	The response of ecosystem water-use efficiency to rising atmospheric CO concentrations: sensitivity and large-scale biogeochemical implications. *New Phytologist*, **2017**, 213, 1654-1666	9.8	57
221	Enhanced seasonal CO2 exchange caused by amplified plant productivity in northern ecosystems. *Science*, **2016**, 351, 696-9	33.3	240

220	Predicting carbon dioxide and energy fluxes across global FLUXNET sites with regression algorithms. *Biogeosciences*, **2016**, 13, 4291-4313	4.6	291
219	Refining multi-model projections of temperature extremes by evaluation against land–atmosphere coupling diagnostics **2016**,		2
218	Multivariate Anomaly Detection for Earth Observations: A Comparison of Algorithms and Feature Extraction Techniques **2016**,		1
217	Improved Multi-Sensor Satellite-Based Aboveground Biomass Estimation by Selecting Temporally Stable Forest Inventory Plots Using NDVI Time Series. *Forests*, **2016**, 7, 169	2.8	9
216	A novel bias correction methodology for climate impact simulations. *Earth System Dynamics*, **2016**, 7, 71-88	4.8	56
215	Evaluating the convergence between eddy-covariance and biometric methods for assessing carbon budgets of forests. *Nature Communications*, **2016**, 7, 13717	17.4	64
214	Potential and limitations of inferring ecosystem photosynthetic capacity from leaf functional traits. *Ecology and Evolution*, **2016**, 6, 7352-7366	2.8	24
213	The imprint of plants on ecosystem functioning: A data-driven approach. *International Journal of Applied Earth Observation and Geoinformation*, **2015**, 43, 119-131	7.3	31
212	Contribution of sorption, DOC transport and microbial interactions to the 14C age of a soil organic carbon profile: Insights from a calibrated process model. *Soil Biology and Biochemistry*, **2015**, 88, 390-402	7.5	91
211	Codominant water control on global interannual variability and trends in land surface phenology and greenness. *Global Change Biology*, **2015**, 21, 3414-35	11.4	121
210	Effects of climate extremes on the terrestrial carbon cycle: concepts, processes and potential future impacts. *Global Change Biology*, **2015**, 21, 2861-80	11.4	454
209	Oxygen isotope ratios of plant available phosphate in lowland tropical forest soils. *Soil Biology and Biochemistry*, **2015**, 88, 354-361	7.5	24
208	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'. *Nature Climate Change*, **2015**, 5, 960-961	21.4	2
207	Ranking drivers of global carbon and energy fluxes over land **2015**,		2
206	Influence of physiological phenology on the seasonal pattern of ecosystem respiration in deciduous forests. *Global Change Biology*, **2015**, 21, 363-76	11.4	41
205	The significance of land-atmosphere interactions in the Earth system—LEAPS achievements and perspectives. *Anthropocene*, **2015**, 12, 69-84	3.9	22
204	BHPMF – a hierarchical Bayesian approach to gap-filling and trait prediction for macroecology and functional biogeography. *Global Ecology and Biogeography*, **2015**, 24, 1510-1521	6.1	83
203	Effect of spatial sampling from European flux towers for estimating carbon and water fluxes with artificial neural networks. *Journal of Geophysical Research G: Biogeosciences*, **2015**, 120, 1941-1957	3.7	51

202	Global spatiotemporal distribution of soil respiration modeled using a global database. *Biogeosciences*, **2015**, 12, 4121-4132	4.6	126
201	Sun-induced chlorophyll fluorescence and photochemical reflectance index improve remote-sensing gross primary production estimates under varying nutrient availability in a typical Mediterranean savanna ecosystem. *Biogeosciences*, **2015**, 12, 6351-6367	4.6	49
200	Preface: Climate extremes and biogeochemical cycles in the terrestrial biosphere: impacts and feedbacks across scales. *Biogeosciences*, **2015**, 12, 4827-4830	4.6	5
199	Carbon cycle. The dominant role of semi-arid ecosystems in the trend and variability of the land CO sink. *Science*, **2015**, 348, 895-9	33.3	684
198	Plant Environment Interactions Across Multiple Scales **2014**, 1-27		1
197	Impact of large-scale climate extremes on biospheric carbon fluxes: An intercomparison based on MsTMIP data. *Global Biogeochemical Cycles*, **2014**, 28, 585-600	5.9	112
196	Linking plant and ecosystem functional biogeography. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 13697-702	11.5	188
195	Global assessment of trends in wetting and drying over land. *Nature Geoscience*, **2014**, 7, 716-721	18.3	448
194	Global covariation of carbon turnover times with climate in terrestrial ecosystems. *Nature*, **2014**, 514, 213-7	50.4	446
193	The use of radiocarbon to constrain current and future soil organic matter turnover and transport in a temperate forest. *Journal of Geophysical Research G: Biogeosciences*, **2014**, 119, 372-391	3.7	22
192	Recent shift in Eurasian boreal forest greening response may be associated with warmer and drier summers. *Geophysical Research Letters*, **2014**, 41, 1995-2002	4.9	77
191	Carbon cycle extremes during the 21st century in CMIP5 models: Future evolution and attribution to climatic drivers. *Geophysical Research Letters*, **2014**, 41, 8853-8861	4.9	32
190	Bayesian calibration of a soil organic carbon model using ¹⁴C measurements of soil organic carbon and heterotrophic respiration as joint constraints. *Biogeosciences*, **2014**, 11, 2147-2168	4.6	24
189	Extreme events in gross primary production: a characterization across continents. *Biogeosciences*, **2014**, 11, 2909-2924	4.6	66
188	Current systematic carbon-cycle observations and the need for implementing a policy-relevant carbon observing system. *Biogeosciences*, **2014**, 11, 3547-3602	4.6	136
187	Climate-mediated spatiotemporal variability in terrestrial productivity across Europe. *Biogeosciences*, **2014**, 11, 3057-3068	4.6	8
186	Reconciling 14C and minirhizotron-based estimates of fine-root turnover with survival functions. *Journal of Plant Nutrition and Soil Science*, **2014**, 177, 287-296	2.3	4
185	Harmonized European Long-Term Climate Data for Assessing the Effect of Changing Temporal Variability on Land Atmosphere CO2 Fluxes. *Journal of Climate*, **2014**, 27, 4815-4834	4.4	36

184	Climate-biosphere interactions in a more extreme world. *New Phytologist*, **2014**, 202, 356-359	9.8	45
183	Nutrient availability as the key regulator of global forest carbon balance. *Nature Climate Change*, **2014**, 4, 471-476	21.4	269
182	A few extreme events dominate global interannual variability in gross primary production. *Environmental Research Letters*, **2014**, 9, 035001	6.2	134
181	PlantEnvironment Interactions Across Multiple Scales **2014**, 1-23		1
180	Random errors in carbon and water vapor fluxes assessed with Gaussian Processes. *Agricultural and Forest Meteorology*, **2013**, 178-179, 161-172	5.8	15
179	Impact of Climate Variability and Extremes on the Carbon Cycle of the Mediterranean Region. *Advances in Global Change Research*, **2013**, 31-47	1.2	2
178	Climate extremes and the carbon cycle. *Nature*, **2013**, 500, 287-95	50.4	974
177	Detection and attribution of large spatiotemporal extreme events in Earth observation data. *Ecological Informatics*, **2013**, 15, 66-73	4.2	80
176	A data-driven analysis of energy balance closure across FLUXNET research sites: The role of landscape scale heterogeneity. *Agricultural and Forest Meteorology*, **2013**, 171-172, 137-152	5.8	342
175	Both priming and temperature sensitivity of soil organic matter decomposition depend on microbial biomass An incubation study. *Soil Biology and Biochemistry*, **2013**, 57, 739-748	7.5	122
174	Modeling the vertical soil organic matter profile using Bayesian parameter estimation. *Biogeosciences*, **2013**, 10, 399-420	4.6	44
173	Earlier springs decrease peak summer productivity in North American boreal forests. *Environmental Research Letters*, **2013**, 8, 024027	6.2	119
172	A novel probabilistic risk analysis to determine the vulnerability of ecosystems to extreme climatic events. *Environmental Research Letters*, **2013**, 8, 015032	6.2	26
171	Priming and substrate quality interactions in soil organic matter models. *Biogeosciences*, **2013**, 10, 2089-2103	4.6	47
170	Benchmark products for land evapotranspiration: LandFlux-EVAL multi-data set synthesis. *Hydrology and Earth System Sciences*, **2013**, 17, 3707-3720	5.5	253
169	Trend Change Detection in NDVI Time Series: Effects of Inter-Annual Variability and Methodology. *Remote Sensing*, **2013**, 5, 2113-2144	5	275
168	Technical Note: The Simple Diagnostic Photosynthesis and Respiration Model (SDPRM). *Biogeosciences*, **2013**, 10, 6485-6508	4.6	5
167	Scaling BVOC Emissions from Leaf to Canopy and Landscape: How Different Are Predictions Based on Contrasting Emission Algorithms?. *Tree Physiology*, **2013**, 357-390		4

166	Fertile forests produce biomass more efficiently. *Ecology Letters*, **2012**, 15, 520-6	10	211
165	Nighttime Flux Correction **2012**, 133-157		25
164	Uncertainty Quantification **2012**, 173-209		59
163	Partitioning of Net Fluxes **2012**, 263-289		22
162	On the temporal upscaling of evapotranspiration from instantaneous remote sensing measurements to 8-day mean daily-sums. *Agricultural and Forest Meteorology*, **2012**, 152, 212-222	5.8	90
161	Advances in upscaling of eddy covariance measurements of carbon and water fluxes. *Journal of Geophysical Research*, **2012**, 117,		53
160	Reconciling leaf physiological traits and canopy flux data: Use of the TRY and FLUXNET databases in the Community Land Model version 4. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		147
159	Climate and vegetation controls on the surface water balance: Synthesis of evapotranspiration measured across a global network of flux towers. *Water Resources Research*, **2012**, 48,	5.4	202
158	The role of trace gas flux networks in the biogeosciences. *Eos*, **2012**, 93, 217-218	1.5	18
157	Correction to Global patterns of land-atmosphere fluxes of carbon dioxide, latent heat, and sensible heat derived from eddy covariance, satellite, and meteorological observations *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		4
156	State-dependent errors in a land surface model across biomes inferred from eddy covariance observations on multiple timescales. *Ecological Modelling*, **2012**, 246, 11-25	3	16
155	The moisture response of soil heterotrophic respiration: interaction with soil properties. *Biogeosciences*, **2012**, 9, 1173-1182	4.6	176
154	A framework for benchmarking land models. *Biogeosciences*, **2012**, 9, 3857-3874	4.6	238
153	On the choice of the driving temperature for eddy-covariance carbon dioxide flux partitioning. *Biogeosciences*, **2012**, 9, 5243-5259	4.6	35
152	Evaluation of global observations-based evapotranspiration datasets and IPCC AR4 simulations. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	267
151	Global intercomparison of 12 land surface heat flux estimates. *Journal of Geophysical Research*, **2011**, 116,		271
150	Global patterns of land-atmosphere fluxes of carbon dioxide, latent heat, and sensible heat derived from eddy covariance, satellite, and meteorological observations. *Journal of Geophysical Research*, **2011**, 116,		765
149	Improving canopy processes in the Community Land Model version 4 (CLM4) using global flux fields empirically inferred from FLUXNET data. *Journal of Geophysical Research*, **2011**, 116,		440

148	Overview on Response of Global Soil Carbon Pools to Climate and Land-Use Changes **2011**, 183-199		4
147	Drought and ecosystem carbon cycling. *Agricultural and Forest Meteorology*, **2011**, 151, 765-773	5.8	359
146	Remote sensing of ecosystem light use efficiency with MODIS-based PRI. *Biogeosciences*, **2011**, 8, 189-202	4.6	57
145	Introduction to Production, Transport, and Emission of Trace Gases from the Vadose Zone to the Atmosphere. *Vadose Zone Journal*, **2011**, 10, 151-155	2.7	3
144	Semiempirical modeling of abiotic and biotic factors controlling ecosystem respiration across eddy covariance sites. *Global Change Biology*, **2011**, 17, 390-409	11.4	102
143	Soil water repellency and its implications for organic matter decomposition s there a link to extreme climatic events?. *Global Change Biology*, **2011**, 17, 2640-2656	11.4	145
142	TRY a global database of plant traits. *Global Change Biology*, **2011**, 17, 2905-2935	11.4	1623
141	SOMPROF: A vertically explicit soil organic matter model. *Ecological Modelling*, **2011**, 222, 1712-1730	3	60
140	Frontiers and challenges in soil respiration research: from measurements to model-data integration. *Biogeochemistry*, **2011**, 102, 1-13	3.8	116
139	The model-data fusion pitfall: assuming certainty in an uncertain world. *Oecologia*, **2011**, 167, 587-97	2.9	91
138	Land use/land cover changes and climate: modeling analysis and observational evidence. *Wiley Interdisciplinary Reviews: Climate Change*, **2011**, 2, 828-850	8.4	471
137	Response to Comment on "Global Convergence in the Temperature Sensitivity of Respiration at Ecosystem Level". *Science*, **2011**, 331, 1265-1265	33.3	8
136	Historical and future perspectives of global soil carbon response to climate and land-use changes. *Tellus, Series B: Chemical and Physical Meteorology*, **2010**, 62, 700-718	3.3	82
135	Assimilation exceeds respiration sensitivity to drought: A FLUXNET synthesis. *Global Change Biology*, **2010**, 16, 657-670	11.4	203
134	Separation of net ecosystem exchange into assimilation and respiration using a light response curve approach: critical issues and global evaluation. *Global Change Biology*, **2010**, 16, 187-208	11.4	584
133	The European carbon balance. Part 3: forests. *Global Change Biology*, **2010**, 16, 1429-1450	11.4	206
132	Identification of vegetation and soil carbon pools out of equilibrium in a process model via eddy covariance and biometric constraints. *Global Change Biology*, **2010**, 16, 2813-2829	11.4	67
131	Recent decline in the global land evapotranspiration trend due to limited moisture supply. *Nature*, **2010**, 467, 951-4	50.4	1382

130	Journal club. A biogeochemist looks at where all the emitted carbon dioxide is going. *Nature*, **2010**, 464, 145	50.4	2
129	Reduction of forest soil respiration in response to nitrogen deposition. *Nature Geoscience*, **2010**, 3, 315-322	18.3	988
128	Contrasting response of European forest and grassland energy exchange to heatwaves. *Nature Geoscience*, **2010**, 3, 722-727	18.3	380
127	Deciphering the components of regional net ecosystem fluxes following a bottom-up approach for the Iberian Peninsula. *Biogeosciences*, **2010**, 7, 3707-3729	4.6	23
126	Influence of spring and autumn phenological transitions on forest ecosystem productivity. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2010**, 365, 3227-46	5.8	594
125	Global convergence in the temperature sensitivity of respiration at ecosystem level. *Science*, **2010**, 329, 838-40	33.3	358
124	Comparing observations and process-based simulations of biosphere-atmosphere exchanges on multiple timescales. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		59
123	Detecting the critical periods that underpin interannual fluctuations in the carbon balance of European forests. *Journal of Geophysical Research*, **2010**, 115,		21
122	Terrestrial gross carbon dioxide uptake: global distribution and covariation with climate. *Science*, **2010**, 329, 834-8	33.3	1638
121	Comment on Vickers et al.: Self-correlation between assimilation and respiration resulting from flux partitioning of eddy-covariance CO2 fluxes. *Agricultural and Forest Meteorology*, **2010**, 150, 312-314	5.8	24
120	Productivity, Respiration, and Light-Response Parameters of World Grassland and Agroecosystems Derived From Flux-Tower Measurements. *Rangeland Ecology and Management*, **2010**, 63, 16-39	2.2	117
119	Soil respiration at mean annual temperature predicts annual total across vegetation types and biomes. *Biogeosciences*, **2010**, 7, 2147-2157	4.6	87
118	Are ecological gradients in seasonal Q10 of soil respiration explained by climate or by vegetation seasonality?. *Soil Biology and Biochemistry*, **2010**, 42, 1728-1734	7.5	87
117	Biosphere-atmosphere exchange of CO₂ in relation to climate: a cross-biome analysis across multiple time scales. *Biogeosciences*, **2009**, 6, 2297-2312	4.6	115
116	Improving land surface models with FLUXNET data. *Biogeosciences*, **2009**, 6, 1341-1359	4.6	260
115	The interannual variability of Africa's ecosystem productivity: a multi-model analysis. *Biogeosciences*, **2009**, 6, 285-295	4.6	47
114	An outlook on the Sub-Saharan Africa carbon balance. *Biogeosciences*, **2009**, 6, 2193-2205	4.6	60
113	Towards global empirical upscaling of FLUXNET eddy covariance observations: validation of a model tree ensemble approach using a biosphere model. *Biogeosciences*, **2009**, 6, 2001-2013	4.6	461

112	Sustained stimulation of soil respiration after 10 years of experimental warming. *Environmental Research Letters*, **2009**, 4, 024005	6.2	26
111	Identification of characteristic plant co-occurrences in neotropical secondary montane forests. *Journal of Plant Ecology*, **2009**, 2, 31-41	1.7	3
110	Tracking seasonal drought effects on ecosystem light use efficiency with satellite-based PRI in a Mediterranean forest. *Remote Sensing of Environment*, **2009**, 113, 1101-1111	13.2	85
109	Influences of changing land use and CO2 concentration on ecosystem and landscape level carbon and water balances in mountainous terrain of the Stubai Valley, Austria. *Global and Planetary Change*, **2009**, 67, 29-43	4.2	19
108	The REFLEX project: Comparing different algorithms and implementations for the inversion of a terrestrial ecosystem model against eddy covariance data. *Agricultural and Forest Meteorology*, **2009**, 149, 1597-1615	5.8	124
107	Temporal and among-site variability of inherent water use efficiency at the ecosystem level. *Global Biogeochemical Cycles*, **2009**, 23, n/a-n/a	5.9	304
106	Toward a consistency cross-check of eddy covariance flux□based and biometric estimates of ecosystem carbon balance. *Global Biogeochemical Cycles*, **2009**, 23, n/a-n/a	5.9	51
105	Footprint of temperature changes in the temperate and boreal forest carbon balance. *Geophysical Research Letters*, **2009**, 36, n/a-n/a	4.9	34
104	A regional perspective on trends in continental evaporation. *Geophysical Research Letters*, **2009**, 36, n/a-n/a	4.9	221
103	Cultivation of a perennial grass for bioenergy on a boreal organic soil □carbon sink or source?. *GCB Bioenergy*, **2009**, 1, 35-50	5.6	48
102	The role of climate variability and extremes for global terrestrial carbon dynamics: Lessons learnt from multiple observations and experiments. *IOP Conference Series: Earth and Environmental Science*, **2009**, 6, 042006	0.3	1
101	Is There a Theoretical Limit to Soil Carbon Storage in Old-Growth Forests? A Model Analysis with Contrasting Approaches. *Ecological Studies*, **2009**, 267-281	1.1	4
100	Net carbon dioxide losses of northern ecosystems in response to autumn warming. *Nature*, **2008**, 451, 49-52	50.4	759
99	Terrestrial ecosystem carbon dynamics and climate feedbacks. *Nature*, **2008**, 451, 289-92	50.4	1011
98	Partitioning net ecosystem carbon exchange and the carbon isotopic disequilibrium in a subalpine forest. *Global Change Biology*, **2008**, 14, 1785-1800	11.4	33
97	Diagnostic assessment of European gross primary production. *Global Change Biology*, **2008**, 14, 2349-2364	11.4	74
96	Implications of the carbon cycle steady state assumption for biogeochemical modeling performance and inverse parameter retrieval. *Global Biogeochemical Cycles*, **2008**, 22, n/a-n/a	5.9	99
95	Statistical properties of random CO2 flux measurement uncertainty inferred from model residuals. *Agricultural and Forest Meteorology*, **2008**, 148, 38-50	5.8	117

94	Cross-site evaluation of eddy covariance GPP and RE decomposition techniques. *Agricultural and Forest Meteorology*, **2008**, 148, 821-838	5.8	221
93	Consequences of More Extreme Precipitation Regimes for Terrestrial Ecosystems. *BioScience*, **2008**, 58, 811-821	5.7	776
92	Soil respiration across scales: The importance of a model–data integration framework for data interpretation. *Journal of Plant Nutrition and Soil Science*, **2008**, 171, 344-354	2.3	165
91	Influences of observation errors in eddy flux data on inverse model parameter estimation. *Biogeosciences*, **2008**, 5, 1311-1324	4.6	98
90	Analyzing the causes and spatial pattern of the European 2003 carbon flux anomaly using seven models. *Biogeosciences*, **2008**, 5, 561-583	4.6	122
89	Colimitation of decomposition by substrate and decomposers – a comparison of model formulations. *Biogeosciences*, **2008**, 5, 749-759	4.6	74
88	Nitrification amplifies the decreasing trends of atmospheric oxygen and implies a larger land carbon uptake. *Global Biogeochemical Cycles*, **2007**, 21, n/a-n/a	5.9	7
87	Uncertainties of modeling gross primary productivity over Europe: A systematic study on the effects of using different drivers and terrestrial biosphere models. *Global Biogeochemical Cycles*, **2007**, 21, n/a-n/a	5.9	132
86	Mean annual GPP of Europe derived from its water balance. *Geophysical Research Letters*, **2007**, 34,	4.9	85
85	Partitioning net ecosystem exchange of CO2: A comparison of a Bayesian/isotope approach to environmental regression methods. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		19
84	OptIC project: An intercomparison of optimization techniques for parameter estimation in terrestrial biogeochemical models. *Journal of Geophysical Research*, **2007**, 112,		74
83	Soils apart from equilibrium – consequences for soil carbon balance modelling. *Biogeosciences*, **2007**, 4, 125-136	4.6	87
82	Assessing the ability of three land ecosystem models to simulate gross carbon uptake of forests from boreal to Mediterranean climate in Europe. *Biogeosciences*, **2007**, 4, 647-656	4.6	65
81	Characterizing ecosystem-atmosphere interactions from short to interannual time scales. *Biogeosciences*, **2007**, 4, 743-758	4.6	39
80	Carbon balance assessment of a natural steppe of southern Siberia by multiple constraint approach. *Biogeosciences*, **2007**, 4, 581-595	4.6	27
79	Net regional ecosystem CO2 exchange from airborne and ground-based eddy covariance, land-use maps and weather observations. *Global Change Biology*, **2007**, 13, 548-560	11.4	18
78	Reduction of ecosystem productivity and respiration during the European summer 2003 climate anomaly: a joint flux tower, remote sensing and modelling analysis. *Global Change Biology*, **2007**, 13, 634-651	11.4	423
77	Modelling the role of agriculture for the 20th century global terrestrial carbon balance. *Global Change Biology*, **2007**, 13, 679-706	11.4	959

76	Linking flux network measurements to continental scale simulations: ecosystem carbon dioxide exchange capacity under non-water-stressed conditions. *Global Change Biology*, **2007**, 13, 734-760	11.4	74
75	Photosynthesis drives anomalies in net carbon-exchange of pine forests at different latitudes. *Global Change Biology*, **2007**, 13, 2110-2127	11.4	59
74	CO2 balance of boreal, temperate, and tropical forests derived from a global database. *Global Change Biology*, **2007**, 13, 2509-2537	11.4	744
73	Determinants of terrestrial ecosystem carbon balance inferred from European eddy covariance flux sites. *Geophysical Research Letters*, **2007**, 34,	4.9	195
72	Evidence for soil water control on carbon and water dynamics in European forests during the extremely dry year: 2003. *Agricultural and Forest Meteorology*, **2007**, 143, 123-145	5.8	427
71	Comprehensive comparison of gap-filling techniques for eddy covariance net carbon fluxes. *Agricultural and Forest Meteorology*, **2007**, 147, 209-232	5.8	645
70	Linking flux network measurements to continental scale simulations: ecosystem carbon dioxide exchange capacity under non-water-stressed conditions. *Global Change Biology*, **2007**, 070621084512032-???	11.4	
69	PIXGRO: A model for simulating the ecosystem CO2 exchange and growth of spring barley. *Ecological Modelling*, **2006**, 190, 260-276	3	28
68	Estimation of total, direct and diffuse PAR under clear skies in complex alpine terrain of the National Park Berchtesgaden, Germany. *Ecological Modelling*, **2006**, 196, 149-162	3	21
67	On the assignment of prior errors in Bayesian inversions of CO2 surface fluxes. *Geophysical Research Letters*, **2006**, 33,	4.9	78
66	Towards a standardized processing of Net Ecosystem Exchange measured with eddy covariance technique: algorithms and uncertainty estimation. *Biogeosciences*, **2006**, 3, 571-583	4.6	994
65	Divergent vegetation growth responses to the 2003 heat wave in the Swiss Alps. *Geophysical Research Letters*, **2005**, 32, n/a-n/a	4.9	143
64	Evaluation of seasonal variation of MODIS derived leaf area index at two European deciduous broadleaf forest sites. *Remote Sensing of Environment*, **2005**, 96, 475-484	13.2	58
63	On the separation of net ecosystem exchange into assimilation and ecosystem respiration: review and improved algorithm. *Global Change Biology*, **2005**, 11, 1424-1439	11.4	2253
62	Does the temperature sensitivity of decomposition of soil organic matter depend upon water content, soil horizon, or incubation time?. *Global Change Biology*, **2005**, 11, 1754-1767	11.4	176
61	Europe-wide reduction in primary productivity caused by the heat and drought in 2003. *Nature*, **2005**, 437, 529-33	50.4	2643
60	An analysis of soil respiration across northern hemisphere temperate ecosystems. *Biogeochemistry*, **2005**, 73, 29-70	3.8	213
59	The effect of soil water content, soil temperature, soil pH-value and the root mass on soil CO 2 efflux □A modified model. *Plant and Soil*, **2005**, 268, 21-33	4.2	138

58	Temperature sensitivity of decomposition in relation to soil organic matter pools: critique and outlook. *Biogeosciences*, **2005**, 2, 317-321	4.6	96
57	Long-term variations in leaf area index and light extinction in a Fagus sylvatica stand as estimated from global radiation profiles. *Theoretical and Applied Climatology*, **2004**, 79, 225-238	3	23
56	Similarities in ground- and satellite-based NDVI time series and their relationship to physiological activity of a Scots pine forest in Finland. *Remote Sensing of Environment*, **2004**, 93, 225-237	13.2	98
55	Carbon dioxide uptake of a forested region in southwest France derived from airborne CO2 and CO measurements in a quasi-Lagrangian experiment. *Journal of Geophysical Research*, **2004**, 109,		32
54	Physiological and physicochemical controls on foliar volatile organic compound emissions. *Trends in Plant Science*, **2004**, 9, 180-6	13.1	317
53	Explaining temporal variation in soil CO2 efflux in a mature spruce forest in Southern Germany. *Soil Biology and Biochemistry*, **2003**, 35, 1467-1483	7.5	154
52	Drought controls over conductance and assimilation of a Mediterranean evergreen ecosystem: scaling from leaf to canopy. *Global Change Biology*, **2003**, 9, 1813-1824	11.4	167
51	Controls on the emission of plant volatiles through stomata: Differential sensitivity of emission rates to stomatal closure explained. *Journal of Geophysical Research*, **2003**, 108,		123
50	Controls on the emission of plant volatiles through stomata: A sensitivity analysis. *Journal of Geophysical Research*, **2003**, 108,		73
49	Modeling temporal and large-scale spatial variability of soil respiration from soil water availability, temperature and vegetation productivity indices. *Global Biogeochemical Cycles*, **2003**, 17, n/a-n/a	5.9	431
48	Inverse modeling of seasonal drought effects on canopy CO2/H2O exchange in three Mediterranean ecosystems. *Journal of Geophysical Research*, **2003**, 108,		129
47	Web-based modelling of energy, water and matter fluxes to support decision making in mesoscale catchments the integrative perspective of GLOWA-Danube. *Physics and Chemistry of the Earth*, **2003**, 28, 621-634	3	58
46	Ecosystem respiration in two Mediterranean evergreen Holm Oak forests: drought effects and decomposition dynamics. *Functional Ecology*, **2002**, 16, 27-39	5.6	223
45	Evapotranspiration and soil water content in a scrub-oak woodland under carbon dioxide enrichment. *Global Change Biology*, **2002**, 8, 289-298	11.4	90
44	Severe drought effects on ecosystem CO2 and H2O fluxes at three Mediterranean evergreen sites: revision of current hypotheses?. *Global Change Biology*, **2002**, 8, 999-1017	11.4	400
43	Stomatal constraints may affect emission of oxygenated monoterpenoids from the foliage of Pinus pinea. *Plant Physiology*, **2002**, 130, 1371-85	6.6	85
42	A model analysis of the effects of nonspecific monoterpenoid storage in leaf tissues on emission kinetics and composition in Mediterranean sclerophyllous Quercus species. *Global Biogeochemical Cycles*, **2002**, 16, 57-1-57-26	5.9	47
41	Humus Forms in the Forest-Alpine Tundra Ecotone at Stillberg (Dischmatal, Switzerland): Spatial Heterogeneity and Classification. *Arctic, Antarctic, and Alpine Research*, **2000**, 32, 21-29	1.8	20

40	Temperature dependence of carbon mineralisation: conclusions from a long-term incubation of subalpine soil samples. *Soil Biology and Biochemistry*, **2000**, 32, 947-958	7.5	129
39	Humus Forms in the Forest-Alpine Tundra Ecotone at Stillberg (Dischmatal, Switzerland): Spatial Heterogeneity and Classification. *Arctic, Antarctic, and Alpine Research*, **2000**, 32, 21	1.8	27
38	Temperature dependence of organic matter decomposition: a critical review using literature data analyzed with different models. *Biology and Fertility of Soils*, **1998**, 27, 258-262	6.1	335
37	Experimental design: scaling up in time and space, and its statistical considerations34-48		
36	Semi-empirical modelling of the response of soil respiration to environmental factors in laboratory and field conditions207-220		1
35	Changes in Climate Extremes and their Impacts on the Natural Physical Environment109-230		709
34	Predicting carbon dioxide and energy fluxes across global FLUXNET sites with regression algorithms		7
33	An empirical spatiotemporal description of the global surface-atmosphere carbon fluxes: opportunities and data limitations		2
32	Impacts of droughts and extreme temperature events on gross primary production and ecosystem respiration: a systematic assessment across ecosystems and climate zones		3
31	Basic and extensible post-processing of eddy covariance flux data with REddyProc		12
30	Large-scale biospheric drought response intensifies linearly with drought duration		2
29	Current systematic carbon cycle observations and needs for implementing a policy-relevant carbon observing system		10
28	Extreme events in gross primary production: a characterization across continents		3
27	Sun-induced Chlorophyll fluorescence and PRI improve remote sensing GPP estimates under varying nutrient availability in a typical Mediterranean savanna ecosystem		8
26	Global spatiotemporal distribution of soil respiration modeled using a global database		19
25	Towards a more harmonized processing of eddy covariance CO₂ fluxes: algorithms and uncertainty estimation		18
24	Analyzing the causes and spatial pattern of the European 2003 carbon flux anomaly in Europe using seven models		10
23	Assessing the ability of three land ecosystem models to simulate gross carbon uptake of forests from boreal to Mediterranean climate in Europe		5

22	Carbon balance assessment of a natural steppe of southern Siberia by multiple constraint approach	7
21	Colimitation of decomposition by substrate and decomposers a comparison of model formulations	6
20	The inter-annual variability of Africa's ecosystem productivity: a multi-model analysis	12
19	Characterisation of ecosystem water-use efficiency of european forests from eddy covariance measurements	66
18	Influences of observation errors in eddy flux data on inverse model parameter estimation	8
17	Soil respiration at mean annual temperature predicts annual total across vegetation types and biomes	1
16	Improving land surface models with FLUXNET data	11
15	Biosphere-atmosphere exchange of CO₂ in relation to climate: a cross-biome analysis across multiple time scales	4
14	Towards global empirical upscaling of FLUXNET eddy covariance observations: validation of a model tree ensemble approach using a biosphere model	22
13	Deciphering the components of regional net ecosystem fluxes following a bottom-up approach for the Iberian Peninsula	1
12	Remote sensing of ecosystem light use efficiency with MODIS-based PRI the DOs and DON'Ts	3
11	Controls on winter ecosystem respiration at mid- and high-latitudes	4
10	The moisture response of soil heterotrophic respiration: interaction with soil properties	6
9	Modeling the vertical soil organic matter profile using ²¹⁰Pb_{ex} measurements and Bayesian inversion	1
8	Modeling the vertical soil organic matter profile using Bayesian parameter estimation	4
7	Technical Note: The Simple Diagnostic Photosynthesis and Respiration Model (SDPRM)	1
6	Priming and substrate quality interactions in soil organic matter models	1
5	A framework of benchmarking land models	8

4	A novel bias correction methodology for climate impact simulations		1
3	Benchmark products for land evapotranspiration: LandFlux-EVAL multi-dataset synthesis		17
2	senSCOPE: Modeling radiative transfer and biochemical processes in mixed canopies combining green and senescent leaves with SCOPE		4
1	A Regional Earth System Data Lab for Understanding Ecosystem Dynamics: An Example from Tropical South America. *Frontiers in Earth Science*,9,	3.5	2