## Nicolas Viovy

# List of Publications by Year in Descending Order

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

65 166 27,831 196 h-index g-index citations papers 6.04 8.4 238 32,319 avg, IF L-index ext. papers ext. citations

#	Paper	IF	Citations
196	Legislative and functional aspects of different metrics used for ozone risk assessment to forests <i>Environmental Pollution</i> , <b>2021</b> , 295, 118690	9.3	2
195	Vulnerability of European ecosystems to two compound dry and hot summers in 2018 and 2019. Earth System Dynamics, <b>2021</b> , 12, 1015-1035	4.8	6
194	The Cretaceous physiological adaptation of angiosperms to a declining <i>p</i>CO<sub>2</sub>: a modeling approach emulating paleo-traits. <i>Biogeosciences</i> , <b>2021</b> , 18, 5729-5750	4.6	
193	Orbital variations as a major driver of climate and biome distribution during the greenhouse to icehouse transition. <i>Science Advances</i> , <b>2021</b> , 7, eabh2819	14.3	2
192	Peak growing season patterns and climate extremes-driven responses of gross primary production estimated by satellite and process based models over North America. <i>Agricultural and Forest Meteorology</i> , <b>2021</b> , 298-299, 108292	5.8	5
191	Vapor Pressure Deficit and Sunlight Explain Seasonality of Leaf Phenology and Photosynthesis Across Amazonian Evergreen Broadleaved Forest. <i>Global Biogeochemical Cycles</i> , <b>2021</b> , 35, e2020GB006	8 <del>9</del> 3	12
190	Climate warming from managed grasslands cancels the cooling effect of carbon sinks in sparsely grazed and natural grasslands. <i>Nature Communications</i> , <b>2021</b> , 12, 118	17.4	34
189	Disentangling the Impacts of Anthropogenic Aerosols on Terrestrial Carbon Cycle During 1850-2014. <i>Eartho</i> Future, <b>2021</b> , 9, e2021EF002035	7.9	2
188	A Data-Driven Global Soil Heterotrophic Respiration Dataset and the Drivers of Its Inter-Annual Variability. <i>Global Biogeochemical Cycles</i> , <b>2021</b> , 35, e2020GB006918	5.9	4
187	Modelling forest ruin due to climate hazards. <i>Earth System Dynamics</i> , <b>2021</b> , 12, 997-1013	4.8	1
186	Direct and seasonal legacy effects of the 2018 heat wave and drought on European ecosystem productivity. <i>Science Advances</i> , <b>2020</b> , 6, eaba2724	14.3	85
185	Feedbacks of soil properties on vegetation during the Green Sahara period. <i>Quaternary Science Reviews</i> , <b>2020</b> , 240, 106389	3.9	3
184	Presentation and Evaluation of the IPSL-CM6A-LR Climate Model. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2020</b> , 12, e2019MS002010	7.1	188
183	Rainfall manipulation experiments as simulated by terrestrial biosphere models: Where do we stand?. <i>Global Change Biology</i> , <b>2020</b> , 26, 3336-3355	11.4	30
182	Incorporating Biodiversity into Biogeochemistry Models to Improve Prediction of Ecosystem Services in Temperate Grasslands: Review and Roadmap. <i>Agronomy</i> , <b>2020</b> , 10, 259	3.6	6
181	The Global Methane Budget 2000\(\mathbb{\textit{2}}\)017. Earth System Science Data, 2020, 12, 1561-1623	10.5	463
180	Novel Representation of Leaf Phenology Improves Simulation of Amazonian Evergreen Forest Photosynthesis in a Land Surface Model. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2020</b> , 12, e2018	ร <sub>์</sub> ศีร์00	1565

#### (2018-2020)

179	Reducing Uncertainties of Future Global Soil Carbon Responses to Climate and Land Use Change With Emergent Constraints. <i>Global Biogeochemical Cycles</i> , <b>2020</b> , 34, e2020GB006589	5.9	2
178	Impacts of extreme summers on European ecosystems: a comparative analysis of 2003, 2010 and 2018. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2020</b> , 375, 20190507	5.8	23
177	Paris Climate Agreement: Promoting Interdisciplinary Science and Stakeholders (Approaches for Multi-Scale Implementation of Continental Carbon Sequestration. <i>Sustainability</i> , <b>2020</b> , 12, 6715	3.6	4
176	Vegetation structural change since 1981 significantly enhanced the terrestrial carbon sink. <i>Nature Communications</i> , <b>2019</b> , 10, 4259	17.4	59
175	Global Patterns in Net Primary Production Allocation Regulated by Environmental Conditions and Forest Stand Age: A Model-Data Comparison. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2019</b> , 124, 2039-2059	3.7	15
174	Extending the applicability of the REVEALS model for pollen-based vegetation reconstructions to coastal lagoons. <i>Holocene</i> , <b>2019</b> , 29, 1109-1112	2.6	2
173	Increased Global Land Carbon Sink Due to Aerosol-Induced Cooling. <i>Global Biogeochemical Cycles</i> , <b>2019</b> , 33, 439-457	5.9	17
172	Benchmark estimates for aboveground litterfall data derived from ecosystem models. <i>Environmental Research Letters</i> , <b>2019</b> , 14, 084020	6.2	11
171	Response of vegetation cover to CO2 and climate changes between Last Glacial Maximum and pre-industrial period in a dynamic global vegetation model. <i>Quaternary Science Reviews</i> , <b>2019</b> , 218, 293-	-305	10
170	Covariations between plant functional traits emerge from constraining parameterization of a terrestrial biosphere model. <i>Global Ecology and Biogeography</i> , <b>2019</b> , 28, 1351-1365	6.1	11
169	Representing explicit budburst and senescence processes for evergreen conifers in global models. Agricultural and Forest Meteorology, <b>2019</b> , 266-267, 97-108	5.8	5
168	The large mean body size of mammalian herbivores explains the productivity paradox during the Last Glacial Maximum. <i>Nature Ecology and Evolution</i> , <b>2018</b> , 2, 640-649	12.3	25
167	Asymmetric responses of primary productivity to altered precipitation simulated by ecosystem models across three long-term grassland sites. <i>Biogeosciences</i> , <b>2018</b> , 15, 3421-3437	4.6	36
166	Large-Scale Droughts Responsible for Dramatic Reductions of Terrestrial Net Carbon Uptake Over North America in 2011 and 2012. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2018</b> , 123, 2053-207	74.7	18
165	Global Carbon Budget 2018. Earth System Science Data, 2018, 10, 2141-2194	10.5	831
164	Global Carbon Budget 2017. Earth System Science Data, 2018, 10, 405-448	10.5	614
163	Reconciling global-model estimates and country reporting of anthropogenic forest CO2 sinks. <i>Nature Climate Change</i> , <b>2018</b> , 8, 914-920	21.4	57
162	Impact of the 2015/2016 El Nië on the terrestrial carbon cycle constrained by bottom-up and top-down approaches. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2018</b> , 373,	5.8	41

161	Contrasting interannual atmospheric CO<sub>2</sub> variabilities and their terrestrial mechanisms for two types of El Nies. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 10333-10345	6.8	11
160	Historical carbon dioxide emissions caused by land-use changes are possibly larger than assumed. <i>Nature Geoscience</i> , <b>2017</b> , 10, 79-84	18.3	195
159	Compensatory water effects link yearly global land CO sink changes to temperature. <i>Nature</i> , <b>2017</b> , 541, 516-520	50.4	341
158	Future productivity and phenology changes in European grasslands for different warming levels: implications for grassland management and carbon balance. <i>Carbon Balance and Management</i> , <b>2017</b> , 12, 11	3.6	34
157	Sensitivity of community-level traitenvironment relationships to data representativeness: A test for functional biogeography. <i>Global Ecology and Biogeography</i> , <b>2017</b> , 26, 729-739	6.1	25
156	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> , <b>2017</b> , 26, 486-499	6.1	5
155	Global wetland contribution to 2000\(\mathbb{Z}\)012 atmospheric methane growth rate dynamics. Environmental Research Letters, 2017, 12, 094013	6.2	97
154	Regional contribution to variability and trends of global gross primary productivity. <i>Environmental Research Letters</i> , <b>2017</b> , 12, 105005	6.2	37
153	Towards a more detailed representation of high-latitude vegetation in the global land surface model ORCHIDEE (ORC-HL-VEGv1.0). <i>Geoscientific Model Development</i> , <b>2017</b> , 10, 4693-4722	6.3	27
152	Plant community structure and nitrogen inputs modulate the climate signal on leaf traits. <i>Global Ecology and Biogeography</i> , <b>2017</b> , 26, 1138-1152	6.1	25
151	Benchmarking carbon fluxes of the ISIMIP2a biome models. <i>Environmental Research Letters</i> , <b>2017</b> , 12, 045002	6.2	23
150	Management outweighs climate change on affecting length of rice growing period for early rice and single rice in China during 1991\( \textbf{Q} 012. \) Agricultural and Forest Meteorology, \( \textbf{2017}, 233, 1-11 \)	5.8	33
149	Higher temperature variability reduces temperature sensitivity of vegetation growth in Northern Hemisphere. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 6173-6181	4.9	19
148	Variability and quasi-decadal changes in the methane budget over the period 2000 <b>2</b> 012. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 11135-11161	6.8	69
147	Land-use and land-cover change carbon emissions between 1901 and 2012 constrained by biomass observations. <i>Biogeosciences</i> , <b>2017</b> , 14, 5053-5067	4.6	42
146	Variability and quasi-decadal changes in the methane budget over the period 2000 <b>2</b> 012 <b>2017</b> ,		2
145	Role of CO<sub>2</sub>, climate and land use in regulating the seasonal amplitude increase of carbon fluxes in terrestrial ecosystems: a multimodel analysis. <i>Biogeosciences</i> , <b>2016</b> , 13, 512	21 <sup>4</sup> 513	7 <sup>19</sup>
144	Global Carbon Budget 2016. Earth System Science Data, <b>2016</b> , 8, 605-649	10.5	730

143	The global methane budget 2000\(\mathbb{\textit{2}}\)012. Earth System Science Data, 2016, 8, 697-751	10.5	641
142	ORCHIDEE-CROP (v0), a new process-based agro-land surface model: model description and evaluation over Europe. <i>Geoscientific Model Development</i> , <b>2016</b> , 9, 857-873	6.3	33
141	Re-evaluating the 1940s CO<sub>2</sub> plateau. <i>Biogeosciences</i> , <b>2016</b> , 13, 4877-4897	4.6	14
140	LS3MIP (v1.0) contribution to CMIP6: the Land Surface, Snow and Soil moisture Model Intercomparison Project hims, setup and expected outcome. <i>Geoscientific Model Development</i> , <b>2016</b> , 9, 2809-2832	6.3	98
139	Combining livestock production information in a process-based vegetation model to reconstruct the history of grassland management. <i>Biogeosciences</i> , <b>2016</b> , 13, 3757-3776	4.6	23
138	The dry season intensity as a key driver of NPP trends. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 2632-263	<b>9</b> 4.9	42
137	The terrestrial carbon budget of South and Southeast Asia. <i>Environmental Research Letters</i> , <b>2016</b> , 11, 105006	6.2	26
136	Effect of climate change, CO2 trends, nitrogen addition, and land-cover and management intensity changes on the carbon balance of European grasslands. <i>Global Change Biology</i> , <b>2016</b> , 22, 338-50	11.4	53
135	Greening of the Earth and its drivers. <i>Nature Climate Change</i> , <b>2016</b> , 6, 791-795	21.4	1036
134	Simulating the net ecosystem CO2 exchange and its components over winter wheat cultivation sites across a large climate gradient in Europe using the ORCHIDEE-STICS generic model. <i>Agriculture, Ecosystems and Environment</i> , <b>2016</b> , 226, 1-17	5.7	7
133	Benchmarking the seasonal cycle of CO2 fluxes simulated by terrestrial ecosystem models. <i>Global Biogeochemical Cycles</i> , <b>2015</b> , 29, 46-64	5.9	42
132	Improving the dynamics of northern vegetation in the ORCHIDEE ecosystem model 2015,		1
131	Vegetation ecology meets ecosystem science: Permanent grasslands as a functional biogeography case study. <i>Science of the Total Environment</i> , <b>2015</b> , 534, 43-51	10.2	30
130	Water-use efficiency and transpiration across European forests during the Anthropocene. <i>Nature Climate Change</i> , <b>2015</b> , 5, 579-583	21.4	271
129	Spatiotemporal patterns of terrestrial gross primary production: A review. <i>Reviews of Geophysics</i> , <b>2015</b> , 53, 785-818	23.1	297
128	Multicriteria evaluation of discharge simulation in Dynamic Global Vegetation Models. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 7488-7505	4.4	20
127	The greenhouse gas balance of European grasslands. <i>Global Change Biology</i> , <b>2015</b> , 21, 3748-61	11.4	47
126	Recent trends and drivers of regional sources and sinks of carbon dioxide. <i>Biogeosciences</i> , <b>2015</b> , 12, 653	S- <b>6</b> .769	432

125	Carbon cycle. The dominant role of semi-arid ecosystems in the trend and variability of the land COII sink. <i>Science</i> , <b>2015</b> , 348, 895-9	33.3	684
124	Effects of climate change and seed dispersal on airborne ragweed pollen loads in Europe. <i>Nature Climate Change</i> , <b>2015</b> , 5, 766-771	21.4	110
123	Modeled Changes in Potential Grassland Productivity and in Grass-Fed Ruminant Livestock Density in Europe over 1961-2010. <i>PLoS ONE</i> , <b>2015</b> , 10, e0127554	3.7	26
122	Global Carbon Budget 2015. Earth System Science Data, <b>2015</b> , 7, 349-396	10.5	513
121	Global carbon budget 2014. Earth System Science Data, 2015, 7, 47-85	10.5	367
120	Improving the dynamics of Northern Hemisphere high-latitude vegetation in the ORCHIDEE ecosystem model. <i>Geoscientific Model Development</i> , <b>2015</b> , 8, 2263-2283	6.3	29
119	Evidence for a weakening relationship between interannual temperature variability and northern vegetation activity. <i>Nature Communications</i> , <b>2014</b> , 5, 5018	17.4	274
118	Impact of large-scale climate extremes on biospheric carbon fluxes: An intercomparison based on MsTMIP data. <i>Global Biogeochemical Cycles</i> , <b>2014</b> , 28, 585-600	5.9	112
117	Evaluation of the ORCHIDEE ecosystem model over Africa against 25 years of satellite-based water and carbon measurements. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2014</b> , 119, 1554-1575	3.7	27
116	Carbon cycle uncertainty in the Alaskan Arctic. <i>Biogeosciences</i> , <b>2014</b> , 11, 4271-4288	4.6	69
115	1982\( \text{Q010} \) Trends of Light Use Efficiency and Inherent Water Use Efficiency in African vegetation: Sensitivity to Climate and Atmospheric CO2 Concentrations. <i>Remote Sensing</i> , <b>2014</b> , 6, 8923-8944	5	14
114	Modeling sugarcane yield with a process-based model from site to continental scale: uncertainties arising from model structure and parameter values. <i>Geoscientific Model Development</i> , <b>2014</b> , 7, 1225-124	5.3	14
113	APIFLAME v1.0: high-resolution fire emission model and application to the Euro-Mediterranean region. <i>Geoscientific Model Development</i> , <b>2014</b> , 7, 587-612	6.3	50
112	The North American Carbon Program Multi-scale Synthesis and Terrestrial Model Intercomparison Project Part 2: Environmental driver data. <i>Geoscientific Model Development</i> , <b>2014</b> , 7, 2875-2893	6.3	168
111	ORCHIDEE-STICS, a process-based model of sugarcane biomass production: calibration of model parameters governing phenology. <i>GCB Bioenergy</i> , <b>2014</b> , 6, 606-620	5.6	12
110	Global carbon budget 2013. Earth System Science Data, <b>2014</b> , 6, 235-263	10.5	264
109	Modelling the role of fires in the terrestrial carbon balance by incorporating SPITFIRE into the global vegetation model ORCHIDEE Part 1: simulating historical global burned area and fire regimes. <i>Geoscientific Model Development</i> , <b>2014</b> , 7, 2747-2767	6.3	90
108	Climate change projections using the IPSL-CM5 Earth System Model: from CMIP3 to CMIP5. <i>Climate Dynamics</i> , <b>2013</b> , 40, 2123-2165	4.2	1185

#### (2012-2013)

107	Evaluation of continental carbon cycle simulations with North American flux tower observations. <i>Ecological Monographs</i> , <b>2013</b> , 83, 531-556	9	63
106	High-performance computing for climate change impact studies with the Pasture Simulation model. <i>Computers and Electronics in Agriculture</i> , <b>2013</b> , 98, 131-135	6.5	23
105	Evaluation of terrestrial carbon cycle models for their response to climate variability and to CO2 trends. <i>Global Change Biology</i> , <b>2013</b> , 19, 2117-32	11.4	481
104	African tropical rainforest net carbon dioxide fluxes in the twentieth century. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2013</b> , 368, 20120376	5.8	39
103	The global carbon budget 1959🛭011. Earth System Science Data, <b>2013</b> , 5, 165-185	10.5	436
102	Evaluation of Land Surface Models in Reproducing Satellite-Derived LAI over the High-Latitude Northern Hemisphere. Part I: Uncoupled DGVMs. <i>Remote Sensing</i> , <b>2013</b> , 5, 4819-4838	5	69
101	Global carbon budget 2013 <b>2013</b> ,		75
100	Distribution of known macrozooplankton abundance and biomass in the global ocean. <i>Earth System Science Data</i> , <b>2013</b> , 5, 241-257	10.5	26
99	Simulating boreal forest carbon dynamics after stand-replacing fire disturbance: insights from a global process-based vegetation model. <i>Biogeosciences</i> , <b>2013</b> , 10, 8233-8252	4.6	11
98	Incorporating grassland management in ORCHIDEE: model description and evaluation at 11 eddy-covariance sites in Europe. <i>Geoscientific Model Development</i> , <b>2013</b> , 6, 2165-2181	6.3	47
97	Impact of precipitation intermittency on NAO-temperature signals in proxy records. <i>Climate of the Past</i> , <b>2013</b> , 9, 871-886	3.9	23
96	North American Carbon Program (NACP) regional interim synthesis: Terrestrial biospheric model intercomparison. <i>Ecological Modelling</i> , <b>2012</b> , 232, 144-157	3	180
95	Model of the Regional Coupled Earth system (MORCE): Application to process and climate studies in vulnerable regions. <i>Environmental Modelling and Software</i> , <b>2012</b> , 35, 1-18	5.2	56
94	Climate change impacts on tree ranges: model intercomparison facilitates understanding and quantification of uncertainty. <i>Ecology Letters</i> , <b>2012</b> , 15, 533-44	10	162
93	A comparison of two canopy conductance parameterizations to quantify the interactions between surface ozone and vegetation over Europe. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		16
92	A global analysis of soil moisture derived from satellite observations and a land surface model. <i>Hydrology and Earth System Sciences</i> , <b>2012</b> , 16, 833-847	5.5	61
91	Continental atmospheric circulation over Europe during the Little Ice Age inferred from grape harvest dates. <i>Climate of the Past</i> , <b>2012</b> , 8, 577-588	3.9	13
90	How errors on meteorological variables impact simulated ecosystem fluxes: a case study for six French sites. <i>Biogeosciences</i> , <b>2012</b> , 9, 2537-2564	4.6	30

89	The carbon budget of terrestrial ecosystems in East Asia over the last two decades. <i>Biogeosciences</i> , <b>2012</b> , 9, 3571-3586	4.6	83
88	The global carbon budget 1959\(\textit{D}\)011 <b>2012</b> ,		122
87	Corrigendum to "Source attribution of the changes in atmospheric methane for 2006\(\mathbb{Z}\)008" published in Atmos. Chem. Phys., 11, 3689\(\mathbb{B}\)700, 2011. Atmospheric Chemistry and Physics, 2012, 12, 9381-9382	6.8	
86	Potential knowledge gain in large-scale simulations of forest carbon fluxes from remotely sensed biomass and height. <i>Forest Ecology and Management</i> , <b>2011</b> , 261, 515-530	3.9	11
85	REDD Mitigation. <i>Procedia Environmental Sciences</i> , <b>2011</b> , 6, 50-59		4
84	Importance of crop varieties and management practices: evaluation of a process-based model for simulating CO<sub>2</sub> and H<sub>2</sub>O fluxes at five European maize (<i>Zea mays</i> L.) sites. <i>Biogeosciences</i> , <b>2011</b> , 8, 1721-1736	4.6	19
83	Impact of CO<sub>2</sub> and climate on the Last Glacial Maximum vegetation: results from the ORCHIDEE/IPSL models. <i>Climate of the Past</i> , <b>2011</b> , 7, 557-577	3.9	49
82	Source attribution of the changes in atmospheric methane for 2006\( \textit{1008}. \) Atmospheric Chemistry and Physics, <b>2011</b> , 11, 3689-3700	6.8	224
81	Effects of land use change and management on the European cropland carbon balance. <i>Global Change Biology</i> , <b>2011</b> , 17, 320-338	11.4	49
80	Impact of tropospheric ozone on the Euro-Mediterranean vegetation. <i>Global Change Biology</i> , <b>2011</b> , 17, 2342-2359	11.4	47
79	Reconstruction and attribution of the carbon sink of European forests between 1950 and 2000. <i>Global Change Biology</i> , <b>2011</b> , 17, 3274-3292	11.4	79
78	Modelling forest management within a global vegetation model <b>P</b> art 2: Model validation from a tree to a continental scale. <i>Ecological Modelling</i> , <b>2011</b> , 222, 57-75	3	25
77	Evaluation of a Dynamic Global Vegetation Model using time series of satellite vegetation indices <b>2011</b> ,		4
76	Evaluation of a Global Vegetation Model using time series of satellite vegetation indices. <i>Geoscientific Model Development</i> , <b>2011</b> , 4, 1103-1114	6.3	36
75	Recent decline in the global land evapotranspiration trend due to limited moisture supply. <i>Nature</i> , <b>2010</b> , 467, 951-4	50.4	1382
74	Interactions between nitrogen deposition, land cover conversion, and climate change determine the contemporary carbon balance of Europe. <i>Biogeosciences</i> , <b>2010</b> , 7, 2749-2764	4.6	47
73	Mortality as a key driver of the spatial distribution of aboveground biomass in Amazonian forest: results from a dynamic vegetation model. <i>Biogeosciences</i> , <b>2010</b> , 7, 3027-3039	4.6	54
72	European-wide simulations of croplands using an improved terrestrial biosphere model: 2. Interannual yields and anomalous CO2 fluxes in 2003. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		10

### (2007-2010)

71	A validation of heat and carbon fluxes from high-resolution land surface and regional models. Journal of Geophysical Research, <b>2010</b> , 115,		13
70	Detecting the critical periods that underpin interannual fluctuations in the carbon balance of European forests. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		21
69	Terrestrial gross carbon dioxide uptake: global distribution and covariation with climate. <i>Science</i> , <b>2010</b> , 329, 834-8	33.3	1638
68	A comparison of alternative modelling approaches to evaluate the European forest carbon fluxes. <i>Forest Ecology and Management</i> , <b>2010</b> , 260, 241-251	3.9	34
67	European-wide simulations of croplands using an improved terrestrial biosphere model: Phenology and productivity. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		32
66	Modelling forest management within a global vegetation model <b>P</b> art 1: Model structure and general behaviour. <i>Ecological Modelling</i> , <b>2010</b> , 221, 2458-2474	3	63
65	Bio-energy retains its mitigation potential under elevated CO2. PLoS ONE, 2010, 5, e11648	3.7	16
64	The interannual variability of Africa's ecosystem productivity: a multi-model analysis. <i>Biogeosciences</i> , <b>2009</b> , 6, 285-295	4.6	47
63	Trends in the sources and sinks of carbon dioxide. <i>Nature Geoscience</i> , <b>2009</b> , 2, 831-836	18.3	1453
62	Spatiotemporal patterns of terrestrial carbon cycle during the 20th century. <i>Global Biogeochemical Cycles</i> , <b>2009</b> , 23, n/a-n/a	5.9	151
61	Carbon and water balance of European croplands throughout the 20th century. <i>Global Biogeochemical Cycles</i> , <b>2008</b> , 22, n/a-n/a	5.9	86
60	Mild winter and spring 2007 over western Europe led to a widespread early vegetation onset. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	22
59	Modelling energy and CO2 fluxes with an interactive vegetation land surface model-Evaluation at high and middle latitudes. <i>Agricultural and Forest Meteorology</i> , <b>2008</b> , 148, 1611-1628	5.8	35
58	Analyzing the causes and spatial pattern of the European 2003 carbon flux anomaly using seven models. <i>Biogeosciences</i> , <b>2008</b> , 5, 561-583	4.6	122
57	Estimating the greenhouse gas fluxes of European grasslands with a process-based model: 1. Model evaluation from in situ measurements. <i>Global Biogeochemical Cycles</i> , <b>2007</b> , 21,	5.9	28
56	Estimating the greenhouse gas fluxes of European grasslands with a process-based model: 2. Simulations at the continental level. <i>Global Biogeochemical Cycles</i> , <b>2007</b> , 21,	5.9	24
55	Optimizing a process-based ecosystem model with eddy-covariance flux measurements: A pine forest in southern France. <i>Global Biogeochemical Cycles</i> , <b>2007</b> , 21, n/a-n/a	5.9	102
54	Growing season extension and its impact on terrestrial carbon cycle in the Northern Hemisphere over the past 2 decades. <i>Global Biogeochemical Cycles</i> , <b>2007</b> , 21, n/a-n/a	5.9	443

53	Uncertainties of modeling gross primary productivity over Europe: A systematic study on the effects of using different drivers and terrestrial biosphere models. <i>Global Biogeochemical Cycles</i> , <b>2007</b> , 21, n/a-n/a	5.9	132
52	Assimilation of global MODIS leaf area index retrievals within a terrestrial biosphere model. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	78
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25	Land-use and land-cover change carbon emissions between 1901 and 2012 constrained by biomass obs	ervatio	ons
24	Trends and drivers of regional sources and sinks of carbon dioxide over the past two decades		44
23	Simulating boreal forest carbon dynamics after stand-replacing fire disturbance: insights from a global process-based vegetation model		4
22	Carbon cycle uncertainty in the Alaskan Arctic		2
21	A simple parameterization of nitrogen limitation on primary productivity for global vegetation models		4
20	Analyzing the causes and spatial pattern of the European 2003 carbon flux anomaly in Europe using seven models		10
19	Assessing the ability of three land ecosystem models to simulate gross carbon uptake of forests from boreal to Mediterranean climate in Europe		5
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