

# Ana Bastos

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

6,408  
citations

117571

34  
h-index

69214

77  
g-index

146  
all docs

146  
docs citations

146  
times ranked

9557  
citing authors

#	ARTICLE	IF	CITATIONS
1	Discrete wavelet analysis of the influence of the North Atlantic Oscillation on Baltic Sea level. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 65, 20077.	0.8	12
2	Statement of Contribution to Diversity, Equity, and Inclusion for <i>JGR: Biogeosciences</i>. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	5
3	Atmospheric dryness reduces photosynthesis along a large range of soil water deficits. <i>Nature Communications</i> , 2022, 13, 989.	5.8	100
4	Definitions and methods to estimate regional land carbon fluxes for the second phase of the REgional Carbon Cycle Assessment and Processes Project (RECCAP-2). <i>Geoscientific Model Development</i> , 2022, 15, 1289-1316.	1.3	34
5	Climate Change Risks to Global Forest Health: Emergence of Unexpected Events of Elevated Tree Mortality Worldwide. <i>Annual Review of Plant Biology</i> , 2022, 73, 673-702.	8.6	117
6	How Well Do We Understand the Landâ€œOceanâ€œAtmosphere Carbon Cycle?. <i>Reviews of Geophysics</i> , 2022, 60, .	9.0	38
7	Uncovering the critical soil moisture thresholds of plant water stress for European ecosystems. <i>Global Change Biology</i> , 2022, 28, 2111-2123.	4.2	23
8	Comparing national greenhouse gas budgets reported in UNFCCC inventories against atmospheric inversions. <i>Earth System Science Data</i> , 2022, 14, 1639-1675.	3.7	58
9	Semiarid ecosystems. , 2022, , 311-335.		0
10	Bottom-up approaches for estimating terrestrial GHG budgets: Bookkeeping, process-based modeling, and data-driven methods. , 2022, , 59-85.		0
11	Balancing greenhouse gas sources and sinks: Inventories, budgets, and climate policy. , 2022, , 3-28.		0
12	Regional and seasonal partitioning of water and temperature controls on global land carbon uptake variability. <i>Nature Communications</i> , 2022, 13, .	5.8	18
13	Amplified warming from physiological responses to carbon dioxide reduces the potential of vegetation for climate change mitigation. <i>Communications Earth &amp; Environment</i> , 2022, 3, .	2.6	13
14	Drought Legacy in Subâ€œSeasonal Vegetation State and Sensitivity to Climate Over the Northern Hemisphere. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	11
15	Integrating the evidence for a terrestrial carbon sink caused by increasing atmospheric CO <sub>2</sub> . <i>New Phytologist</i> , 2021, 229, 2413-2445.	3.5	286
16	Empirical estimates of regional carbon budgets imply reduced global soil heterotrophic respiration. <i>National Science Review</i> , 2021, 8, nwaal45.	4.6	70
17	Effects of rising CO2 levels on carbon sequestration are coordinated above and below ground. <i>Nature</i> , 2021, 591, 532-534.	13.7	10
18	Variations of carbon allocation and turnover time across tropical forests. <i>Global Ecology and Biogeography</i> , 2021, 30, 1271-1285.	2.7	12

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19	Modelled land use and land cover change emissions – a spatio-temporal comparison of different approaches. <i>Earth System Dynamics</i> , 2021, 12, 635-670.	2.7	29
20	Decadal variability in land carbon sink efficiency. <i>Carbon Balance and Management</i> , 2021, 16, 15.	1.4	6
21	Unusual characteristics of the carbon cycle during the 2015~2016 El Niño. <i>Global Change Biology</i> , 2021, 27, 3798-3809.	4.2	6
22	Vapor Pressure Deficit and Sunlight Explain Seasonality of Leaf Phenology and Photosynthesis Across Amazonian Evergreen Broadleaved Forest. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006893.	1.9	31
23	A multi-data assessment of land use and land cover emissions from Brazil during 2000~2019. <i>Environmental Research Letters</i> , 2021, 16, 074004.	2.2	33
24	Bookkeeping estimates of the net land-use change flux – a sensitivity study with the CMIP6 land-use dataset. <i>Earth System Dynamics</i> , 2021, 12, 763-782.	2.7	9
25	Comparison of uncertainties in land-use change fluxes from bookkeeping model parameterisation. <i>Earth System Dynamics</i> , 2021, 12, 745-762.	2.7	22
26	Disentangling the Impacts of Anthropogenic Aerosols on Terrestrial Carbon Cycle During 1850~2014. <i>Earth's Future</i> , 2021, 9, e2021EF002035.	2.4	11
27	Past and Future Climate Variability Uncertainties in the Global Carbon Budget Using the MPI Grand Ensemble. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB007019.	1.9	7
28	Vulnerability of European ecosystems to two compound dry and hot summers in 2018 and 2019. <i>Earth System Dynamics</i> , 2021, 12, 1015-1035.	2.7	49
29	Vegetation Productivity Losses Linked to Mediterranean Hot and Dry Events. <i>Remote Sensing</i> , 2021, 13, 4010.	1.8	4
30	Ten new insights in climate science 2021: a horizon scan. <i>Global Sustainability</i> , 2021, 4, .	1.6	26
31	Guidelines for Studying Diverse Types of Compound Weather and Climate Events. <i>Earth's Future</i> , 2021, 9, e2021EF002340.	2.4	66
32	Siberian 2020 heatwave increased spring CO <sub>2</sub> uptake but not annual CO <sub>2</sub> uptake. <i>Environmental Research Letters</i> , 2021, 16, 124030.	2.2	7
33	Interannual variation of terrestrial carbon cycle: Issues and perspectives. <i>Global Change Biology</i> , 2020, 26, 300-318.	4.2	214
34	State of the science in reconciling top-down and bottom-up approaches for terrestrial CO <sub>2</sub> budget. <i>Global Change Biology</i> , 2020, 26, 1068-1084.	4.2	43
35	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> , 2020, 12, e2018MS001565.	1.3	36
36	Impact of extreme weather conditions on European crop production in 2018. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190510.	1.8	138

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37	A historical, geographical and ecological perspective on the 2018 European summer drought. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190505.	1.8	89
38	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> , 2020, 375, 20190507.	1.8	64
39	The fingerprint of the summer 2018 drought in Europe on ground-based atmospheric CO <sub>2</sub> measurements. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190513.	1.8	31
40	Sensitivity of gross primary productivity to climatic drivers during the summer drought of 2018 in Europe. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190747.	1.8	71
41	Comparison of forest above-ground biomass from dynamic global vegetation models with spatially explicit remotely sensed observation-based estimates. <i>Global Change Biology</i> , 2020, 26, 3997-4012.	4.2	25
42	Direct and seasonal legacy effects of the 2018 heat wave and drought on European ecosystem productivity. <i>Science Advances</i> , 2020, 6, eaba2724.	4.7	229
43	Accelerated terrestrial ecosystem carbon turnover and its drivers. <i>Global Change Biology</i> , 2020, 26, 5052-5062.	4.2	42
44	Tropical forests did not recover from the strong 2015–2016 El Niño event. <i>Science Advances</i> , 2020, 6, eaay4603.	4.7	127
45	Sources of Uncertainty in Regional and Global Terrestrial CO <sub>2</sub> Exchange Estimates. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2019GB006393.	1.9	59
46	Consistency of Satellite Climate Data Records for Earth System Monitoring. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E1948-E1971.	1.7	21
47	European anthropogenic AFOLU greenhouse gas emissions: a review and benchmark data. <i>Earth System Science Data</i> , 2020, 12, 961-1001.	3.7	31
48	Modeling the impacts of diffuse light fraction on photosynthesis in ORCHIDEE (v5453) land surface model. <i>Geoscientific Model Development</i> , 2020, 13, 5401-5423.	1.3	23
49	Satellite-observed pantropical carbon dynamics. <i>Nature Plants</i> , 2019, 5, 944-951.	4.7	141
50	Contrasting effects of CO <sub>2</sub> fertilization, land-use change and warming on seasonal amplitude of Northern Hemisphere CO <sub>2</sub> exchange. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12361-12375.	1.9	30
51	Characterization of a commercial lower-cost medium-precision non-dispersive infrared sensor for atmospheric CO <sub>2</sub> monitoring in urban areas. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 2665-2677.	1.2	16
52	Impacts of the 1.5°C global warming target on future burned area in the Brazilian Cerrado. <i>Forest Ecology and Management</i> , 2019, 446, 193-203.	1.4	35
53	Regime shifts of Mediterranean forest carbon uptake and reduced resilience driven by multidecadal ocean surface temperatures. <i>Global Change Biology</i> , 2019, 25, 2825-2840.	4.2	22
54	Increased Global Land Carbon Sink Due to Aerosol-Induced Cooling. <i>Global Biogeochemical Cycles</i> , 2019, 33, 439-457.	1.9	27

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55	Global trends in carbon sinks and their relationships with CO <sub>2</sub> and temperature. <i>Nature Climate Change</i> , 2019, 9, 73-79.	8.1	163
56	Global Carbon Budget 2019. <i>Earth System Science Data</i> , 2019, 11, 1783-1838.	3.7	1,159
57	Changes in the Response of the Northern Hemisphere Carbon Uptake to Temperature Over the Last Three Decades. <i>Geophysical Research Letters</i> , 2018, 45, 4371-4380.	1.5	21
58	The Accelerating Land Carbon Sink of the 2000s May Not Be Driven Predominantly by the Warming Hiatus. <i>Geophysical Research Letters</i> , 2018, 45, 1402-1409.	1.5	13
59	Recent Changes in Global Photosynthesis and Terrestrial Ecosystem Respiration Constrained From Multiple Observations. <i>Geophysical Research Letters</i> , 2018, 45, 1058-1068.	1.5	19
60	Impact of the 2015/2016 El Niño on the terrestrial carbon cycle constrained by bottom-up and top-down approaches. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170304.	1.8	63
61	Contrasting biosphere responses to hydrometeorological extremes: revisiting the 2010 western Russian heatwave. <i>Biogeosciences</i> , 2018, 15, 6067-6085.	1.3	57
62	Precipitation thresholds regulate net carbon exchange at the continental scale. <i>Nature Communications</i> , 2018, 9, 3596.	5.8	39
63	Gross changes in forest area shape the future carbon balance of tropical forests. <i>Biogeosciences</i> , 2018, 15, 91-103.	1.3	3
64	Influence of high-latitude warming and land-use changes in the early 20th century northern Eurasian CO <sub>2</sub> sink. <i>Environmental Research Letters</i> , 2018, 13, 065014.	2.2	3
65	ORCHIDEE-MICT (v8.4.1), a land surface model for the high latitudes: model description and validation. <i>Geoscientific Model Development</i> , 2018, 11, 121-163.	1.3	135
66	Land-use emissions play a critical role in land-based mitigation for Paris climate targets. <i>Nature Communications</i> , 2018, 9, 2938.	5.8	194
67	Lower land-use emissions responsible for increased net land carbon sink during the slow warming period. <i>Nature Geoscience</i> , 2018, 11, 739-743.	5.4	110
68	Global Carbon Budget 2018. <i>Earth System Science Data</i> , 2018, 10, 2141-2194.	3.7	1,167
69	The effects of teleconnections on carbon fluxes of global terrestrial ecosystems. <i>Geophysical Research Letters</i> , 2017, 44, 3209-3218.	1.5	58
70	Was the extreme Northern Hemisphere greening in 2015 predictable?. <i>Environmental Research Letters</i> , 2017, 12, 044016.	2.2	25
71	Warmer Arctic weakens vegetation. <i>Nature Geoscience</i> , 2017, 10, 543-544.	5.4	1
72	The influence of the main large-scale circulation patterns on wind power production in Portugal. <i>Renewable Energy</i> , 2017, 102, 214-223.	4.3	26

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73	Vegetation greenness and land carbon-flux anomalies associated with climate variations: a focus on the year 2015. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 13903-13919.	1.9	21
74	Future Projections of Fire Occurrence in Brazil Using EC-Earth Climate Model. <i>Revista Brasileira De Meteorologia</i> , 2016, 31, 288-297.	0.2	20
75	Re-evaluating the 1940s CO <sub>2</sub> plateau. <i>Biogeosciences</i> , 2016, 13, 4877-4897.	1.3	22
76	European land CO <sub>2</sub> sink influenced by NAO and East-Atlantic Pattern coupling. <i>Nature Communications</i> , 2016, 7, 10315.	5.8	74
77	The outstanding synergy between drought, heatwaves and fuel on the 2007 Southern Greece exceptional fire season. <i>Agricultural and Forest Meteorology</i> , 2016, 218-219, 135-145.	1.9	46
78	Analysing the spatio-temporal impacts of the 2003 and 2010 extreme heatwaves on plant productivity in Europe. <i>Biogeosciences</i> , 2014, 11, 3421-3435.	1.3	102
79	The global NPP dependence on ENSO: La Niña and the extraordinary year of 2011. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 1247-1255.	1.3	101
80	Drought impacts on vegetation in the pre- and post-fire events over Iberian Peninsula. <i>Natural Hazards and Earth System Sciences</i> , 2012, 12, 3123-3137.	1.5	63
81	Modelling post-fire vegetation recovery in Portugal. <i>Biogeosciences</i> , 2011, 8, 3593-3607.	1.3	38