Marcos H Costa

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Understanding water and energy fluxes in the Amazonia: Lessons from an observationâ€model intercomparison. Global Change Biology, 2021, 27, 1802-1819.	9.5	6
2	Historical Changes in Land Use and Suitability for Future Agriculture Expansion in Western Bahia, Brazil. Remote Sensing, 2021, 13, 1088.	4.0	15
3	Amazon Hydrology From Space: Scientific Advances and Future Challenges. Reviews of Geophysics, 2021, 59, e2020RG000728.	23.0	53
4	Chapter 23: Impacts of deforestation and climate change on biodiversity, ecological processes, and environmental adaptation. , 2021, , .		1
5	Chapter 7: Biogeophysical Cycles: Water Recycling, Climate Regulation. , 2021, , .		0
6	Chapter 6: Biogeochemical Cycles in the Amazon. , 2021, , .		7
7	Chapter 5: The Physical hydroclimate system of the Amazon. , 2021, , .		0
8	The southern Amazon rainy season: The role of deforestation and its interactions with largeâ€scale mechanisms. International Journal of Climatology, 2020, 40, 2328-2341.	3.5	51
9	Collective action can avoid the "tragedy of the Amazon commons― Frontiers in Ecology and the Environment, 2020, 18, 430-431.	4.0	0
10	A Remote Sensing Diagnosis of Water Use and Water Stress in a Region with Intense Irrigation Growth in Brazil. Remote Sensing, 2020, 12, 3725.	4.0	9
11	Soil Carbon Sequestration in Rainfed and Irrigated Production Systems in a New Brazilian Agricultural Frontier. Agriculture (Switzerland), 2020, 10, 156.	3.1	15
12	Monitoring and mapping non-governmental conservation action in Amazonia. Land Use Policy, 2020, 94, 104556.	5.6	6
13	When more trees mean more power. Nature Sustainability, 2020, 3, 410-411.	23.7	3
14	Carbon stocks and dynamics of different land uses on the Cerrado agricultural frontier. PLoS ONE, 2020, 15, e0241637.	2.5	25
15	Climate risks to Amazon agriculture suggest a rationale to conserve local ecosystems. Frontiers in Ecology and the Environment, 2019, 17, 584-590.	4.0	36
16	Influence of Land Use and Land Cover on Hydraulic and Physical Soil Properties at the Cerrado Agricultural Frontier. Agriculture (Switzerland), 2019, 9, 24.	3.1	23
17	Pathways for recent Cerrado soybean expansion: extending the soy moratorium and implementing integrated crop livestock systems with soybeans. Environmental Research Letters, 2019, 14, 044029.	5.2	36
18	Climate Change and Intense Irrigation Growth in Western Bahia, Brazil: The Urgent Need for Hydroclimatic Monitoring. Water (Switzerland), 2019, 11, 933.	2.7	54

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19	Effects of Deforestation on the Onset of the Rainy Season and the Duration of Dry Spells in Southern Amazonia. Journal of Geophysical Research D: Atmospheres, 2019, 124, 5268-5281.	3.3	85
20	Evolution of rain and photoperiod limitations on the soybean growing season in Brazil: The rise (and) Tj ETQqO	0 0 rg₿T /C)verlock 10 Tf
21	Do Large Slaughterhouses Promote Sustainable Intensification of Cattle Ranching in Amazonia and the Cerrado?. Sustainability, 2018, 10, 3266.	3.2	3
22	Spatially explicit valuation of the Brazilian Amazon Forest's Ecosystem Services. Nature Sustainability, 2018, 1, 657-664.	23.7	113
23	Coupling the terrestrial hydrology model with biogeochemistry to the integrated LAND surface model: Amazon Basin applications. Hydrological Sciences Journal, 2018, 63, 1954-1966.	2.6	5
24	Influence of climate variability, fire and phosphorus limitation on vegetation structure and dynamics of the Amazon–Cerrado border. Biogeosciences, 2018, 15, 919-936.	3.3	14
25	Tradeoffs in the quest for climate smart agricultural intensification in Mato Grosso, Brazil. Environmental Research Letters, 2018, 13, 064025.	5.2	35
26	Sources of Water Vapor to Economically Relevant Regions in Amazonia and the Effect of Deforestation. Journal of Hydrometeorology, 2017, 18, 1643-1655.	1.9	15
27	Are capacity deficits in local government leaving the Amazon vulnerable to environmental change?. Land Use Policy, 2017, 69, 326-330.	5.6	11
28	Do dynamic global vegetation models capture the seasonality of carbon fluxes in the Amazon basin? A dataâ€model intercomparison. Global Change Biology, 2017, 23, 191-208.	9.5	106
29	Response of South American Terrestrial Ecosystems to Future Patterns of Sea Surface Temperature. Advances in Meteorology, 2017, 2017, 1-16.	1.6	2
30	Land-Atmosphere Interactions. Advances in Meteorology, 2016, 2016, 1-1.	1.6	1
31	Patterns of land use, extensification, and intensification of Brazilian agriculture. Global Change Biology, 2016, 22, 2887-2903.	9.5	198
32	Increased climate risk in Brazilian double cropping agriculture systems: Implications for land use in Northern Brazil. Agricultural and Forest Meteorology, 2016, 228-229, 286-298.	4.8	75
33	Changing Amazon biomass and the role of atmospheric CO ₂ concentration, climate, and land use. Global Biogeochemical Cycles, 2016, 30, 18-39.	4.9	32
34	Toward an integrated monitoring framework to assess the effects of tropical forest degradation and recovery on carbon stocks and biodiversity. Global Change Biology, 2016, 22, 92-109.	9.5	165
35	Projections of climate change effects on discharge and inundation in the Amazon basin. Climatic Change, 2016, 136, 555-570.	3.6	147
36	The fate of Amazonian ecosystems over the coming century arising from changes in climate, atmospheric <scp>CO</scp> _{2,} and land use. Global Change Biology, 2015, 21, 2569-2587.	9.5	97

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37	Nitrogen-Use Efficiency, Nitrous Oxide Emissions, and Cereal Production in Brazil: Current Trends and Forecasts. PLoS ONE, 2015, 10, e0135234.	2.5	40
38	Effects of land cover change on evapotranspiration and streamflow of small catchments in the Upper Xingu River Basin, Central Brazil. Journal of Hydrology: Regional Studies, 2015, 4, 108-122.	2.4	142
39	Geographic trends and information deficits in Amazonian conservation research. Biodiversity and Conservation, 2015, 24, 2853-2863.	2.6	24
40	Modeling the impact of net primary production dynamics on post-disturbance Amazon savannization. Anais Da Academia Brasileira De Ciencias, 2014, 86, 621-632.	0.8	6
41	Feedbacks between deforestation, climate, and hydrology in the Southwestern Amazon: implications for the provision of ecosystem services. Landscape Ecology, 2014, 29, 261-274.	4.2	89
42	Pervasive transition of the Brazilian land-use system. Nature Climate Change, 2014, 4, 27-35.	18.8	407
43	Mechanisms of water supply and vegetation demand govern the seasonality and magnitude of evapotranspiration in Amazonia and Cerrado. Agricultural and Forest Meteorology, 2014, 191, 33-50.	4.8	105
44	Deforestation causes different subregional effects on the Amazon bioclimatic equilibrium. Geophysical Research Letters, 2013, 40, 3618-3623.	4.0	62
45	Vegetation patterns in South America associated with rising CO2: uncertainties related to sea surface temperatures. Theoretical and Applied Climatology, 2013, 111, 569-576.	2.8	3
46	Confronting model predictions of carbon fluxes with measurements of Amazon forests subjected to experimental drought. New Phytologist, 2013, 200, 350-365.	7.3	247
47	Large-scale expansion of agriculture in Amazonia may be a no-win scenario. Environmental Research Letters, 2013, 8, 024021.	5.2	93
48	A multi-objective hierarchical calibration procedure for land surface/ecosystem models. Inverse Problems in Science and Engineering, 2013, 21, 357-386.	1.2	4
49	Overview of the Large-Scale Biosphere–Atmosphere Experiment in Amazonia Data Model Intercomparison Project (LBA-DMIP). Agricultural and Forest Meteorology, 2013, 182-183, 111-127.	4.8	55
50	Inter-annual variability of carbon and water fluxes in Amazonian forest, Cerrado and pasture sites, as simulated by terrestrial biosphere models. Agricultural and Forest Meteorology, 2013, 182-183, 145-155.	4.8	30
51	Multi-site land surface model optimization: An exploration of objective functions. Agricultural and Forest Meteorology, 2013, 182-183, 168-176.	4.8	5
52	The data-model intercomparison project for the large-scale biosphere–atmosphere experiment in Amazonia. Agricultural and Forest Meteorology, 2013, 182-183, 109-110.	4.8	4
53	Calibration and Validation of the Integrated Biosphere Simulator (IBIS) for a Brazilian Semiarid Region. Journal of Applied Meteorology and Climatology, 2013, 52, 2753-2770.	1.5	16
54	Deforestation and climate feedbacks threaten the ecological integrity of south–southeastern Amazonia. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120155.	4.0	118

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55	Dependence of hydropower energy generation on forests in the Amazon Basin at local and regional scales. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9601-9606.	7.1	180
56	Improving simulated Amazon forest biomass and productivity by including spatial variation in biophysical parameters. Biogeosciences, 2013, 10, 2255-2272.	3.3	52
57	THE INFLUENCE OF ARCHITECTURAL AND SPECTRAL PARAMETERS OF A TROPICAL FOREST CANOPY UNDER ITS REFLECTANCE DESCRIBED BY IBIS MODEL. Revista Brasileira De Geofisica, 2013, 30, 495.	0.2	0
58	Water fluxes in the central Brazilian savanna: Seasonal patterns and land cover interdependencies as observed from GRACE, TRMM, and MODIS data. , 2012, , .		2
59	Evaluation of a Dynamic Agroecosystem Model (Agro-IBIS) for Soybean in Southern Brazil. Earth Interactions, 2012, 16, 1-15.	1.5	17
60	Seasonal changes in leaf area of Amazon forests from leaf flushing and abscission. Journal of Geophysical Research, 2012, 117, .	3.3	64
61	A biophysical model of Sugarcane growth. GCB Bioenergy, 2012, 4, 36-48.	5.6	40
62	Monitoring carbon assimilation in South America's tropical forests: Model specification and application to the Amazonian droughts of 2005 and 2010. Remote Sensing of Environment, 2012, 117, 449-463.	11.0	15
63	Climate-regulation services of natural and agricultural ecoregions of the Americas. Nature Climate Change, 2012, 2, 177-181.	18.8	165
64	Historical land use change and associated carbon emissions in Brazil from 1940 to 1995. Global Biogeochemical Cycles, 2012, 26, .	4.9	70
65	Correction to "Seasonal changes in leaf area of Amazon forests from leaf flushing and abscissionâ€ Journal of Geophysical Research, 2012, 117, n/a-n/a.	3.3	1
66	Predicting land cover changes in the Amazon rainforest: An oceanâ€atmosphereâ€biosphere problem. Geophysical Research Letters, 2012, 39, .	4.0	4
67	Classificação espectral de área plantada com a cultura da cana-de-açúcar por meio da árvore de decisão. Engenharia Agricola, 2012, 32, 369-380.	0.7	8
68	Evidence that deforestation affects the onset of the rainy season in Rondonia, Brazil. Journal of Geophysical Research, 2011, 116, .	3.3	116
69	Widespread decline in greenness of Amazonian vegetation due to the 2010 drought. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	200
70	Simulations of tropical rainforest albedo: is canopy wetness important?. Anais Da Academia Brasileira De Ciencias, 2011, 83, 1171-1180.	0.8	3
71	Performance evaluation of the SITE® model to estimate energy flux in a tropical semi-deciduous forest of the southern Amazon Basin. International Journal of Biometeorology, 2011, 55, 303-312.	3.0	4
72	Historical reconstruction of land use in the Brazilian Amazon (1940–1995). Journal of Land Use Science, 2011, 6, 33-52.	2.2	24

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73	Comment on "Drought-Induced Reduction in Global Terrestrial Net Primary Production from 2000 Through 2009― Science, 2011, 333, 1093-1093.	12.6	95
74	Modeling radiative transfer in tropical rainforest canopies: sensitivity of simulated albedo to canopy architectural and optical parameters. Anais Da Academia Brasileira De Ciencias, 2011, 83, 1231-1242.	0.8	5
75	Coupled Atmosphere-Biosphere Models as a Tool for Conservation Planning and Policy. Natureza A Conservacao, 2011, 9, 145-151.	2.5	5
76	Cerrado Conservation is Essential to Protect the Amazon Rainforest. Ambio, 2010, 39, 580-584.	5.5	27
77	Effects of Amazon and Central Brazil deforestation scenarios on the duration of the dry season in the arc of deforestation. International Journal of Climatology, 2010, 30, 1970-1979.	3.5	225
78	Atmospheric versus vegetation controls of Amazonian tropical rain forest evapotranspiration: Are the wet and seasonally dry rain forests any different?. Journal of Geophysical Research, 2010, 115, .	3.3	118
79	Comparação de produtos de radiação solar incidente à superfÃcie para a América do Sul. Revista Brasileira De Meteorologia, 2010, 25, 469-478.	0.5	5
80	Estado-da-arte da simulação da taxa de fixação de carbono de ecossistemas tropicais. Revista Brasileira De Meteorologia, 2009, 24, 179-187.	0.5	5
81	Comparação de produtos de precipitação para a América do Sul. Revista Brasileira De Meteorologia, 2009, 24, 461-472.	0.5	12
82	Challenges to Reproduce Vegetation Structure and Dynamics in Amazonia Using a Coupled Climate–Biosphere Model. Earth Interactions, 2009, 13, 1-28.	1.5	12
83	The influence of historical and potential future deforestation on the stream flow of the Amazon River – Land surface processes and atmospheric feedbacks. Journal of Hydrology, 2009, 369, 165-174.	5.4	240
84	Seasonal leaf dynamics in an Amazonian tropical forest. Forest Ecology and Management, 2009, 258, 1161-1165.	3.2	47
85	Vegetationâ€atmosphereâ€soil nutrient feedbacks in the Amazon for different deforestation scenarios. Journal of Geophysical Research, 2009, 114, .	3.3	17
86	Floodplain ecosystem processes. Geophysical Monograph Series, 2009, , 525-541.	0.1	54
87	Effects of climatic variability and deforestation on surface water regimes. Geophysical Monograph Series, 2009, , 543-553.	0.1	18
88	Simulating the surface waters of the Amazon River basin: impacts of new river geomorphic and flow parameterizations. Hydrological Processes, 2008, 22, 2542-2553.	2.6	126
89	Climate change in Amazonia caused by soybean cropland expansion, as compared to caused by pastureland expansion. Geophysical Research Letters, 2007, 34, .	4.0	127
90	Regional climate change over eastern Amazonia caused by pasture and soybean cropland expansion. Geophysical Research Letters, 2007, 34, .	4.0	270

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91	Amazonia revealed: forest degradation and loss of ecosystem goods and services in the Amazon Basin. Frontiers in Ecology and the Environment, 2007, 5, 25-32.	4.0	439
92	MODIS land cover and LAI collection 4 product quality across nine sites in the western hemisphere. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 1843-1857.	6.3	119
93	Evaluation of MODIS NPP and GPP products across multiple biomes. Remote Sensing of Environment, 2006, 102, 282-292.	11.0	540
94	Large-scale hydrological impacts of tropical forest conversion. , 2005, , 590-597.		28
95	Mecanismos de controle da variação sazonal da transpiração de uma floresta tropical no nordeste da amazônia. Acta Amazonica, 2005, 35, 223-229.	0.7	18
96	Variação espacial e temporal da precipitação no Estado do Pará. Acta Amazonica, 2005, 35, 207-214.	0.7	223
97	Fraction of photosynthetically active radiation absorbed by Amazon tropical forest: A comparison of field measurements, modeling, and remote sensing. Journal of Geophysical Research, 2005, 110, .	3.3	33
98	A simple tropical ecosystem model of carbon, water and energy fluxes. Ecological Modelling, 2004, 176, 291-312.	2.5	21
99	Comments on "The Regional Evapotranspiration of the Amazon― Journal of Hydrometeorology, 2004, 5, 1279-1280.	1.9	15
100	Effects of large-scale changes in land cover on the discharge of the Tocantins River, Southeastern Amazonia. Journal of Hydrology, 2003, 283, 206-217.	5.4	585
101	Green surprise? How terrestrial ecosystems could affect earth's climate. Frontiers in Ecology and the Environment, 2003, 1, 38-44.	4.0	96
102	Green Surprise? How Terrestrial Ecosystems Could Affect Earth's Climate. Frontiers in Ecology and the Environment, 2003, 1, 38.	4.0	181
103	Climate Change after Tropical Deforestation: Seasonal Variability of Surface Albedo and Its Effects on Precipitation Change. Journal of Climate, 2003, 16, 2099-2104.	3.2	67
104	Characterizing patterns of agricultural land use in Amazonia by merging satellite classifications and census data. Global Biogeochemical Cycles, 2002, 16, 18-1-18-14.	4.9	20
105	Surface water dynamics in the Amazon Basin: Application of satellite radar altimetry. Journal of Geophysical Research, 2002, 107, LBA 26-1.	3.3	248
106	Long-term simulations of discharge and floods in the Amazon Basin. Journal of Geophysical Research, 2002, 107, LBA 11-1.	3.3	96
107	El Niño-Southern oscillation and the climate, ecosystems and rivers of Amazonia. Global Biogeochemical Cycles, 2002, 16, 79-1-79-20.	4.9	162
108	A macroscale hydrological data set of river flow routing parameters for the Amazon Basin. Journal of Geophysical Research, 2002, 107, LBA 6-1.	3.3	17

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109	INCORPORATING DYNAMIC VEGETATION COVER WITHIN GLOBAL CLIMATE MODELS. , 2000, 10, 1620-1632.		160
110	Combined Effects of Deforestation and Doubled Atmospheric CO2Concentrations on the Climate of Amazonia. Journal of Climate, 2000, 13, 18-34.	3.2	336
111	Trends in the hydrologic cycle of the Amazon Basin. Journal of Geophysical Research, 1999, 104, 14189-14198.	3.3	118
112	A comparison of precipitation datasets for the Amazon Basin. Geophysical Research Letters, 1998, 25, 155-158.	4.0	81
113	Water balance of the Amazon Basin: Dependence on vegetation cover and canopy conductance. Journal of Geophysical Research, 1997, 102, 23973-23989.	3.3	130