

Michael Coe

List of Publications by Year in descending order

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105
papers

21,085
citations

29994

54
h-index

30848

102
g-index

111
all docs

111
docs citations

111
times ranked

25417
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Consequences of Land Use. <i>Science</i> , 2005, 309, 570-574.	6.0	9,451
2	The Amazon basin in transition. <i>Nature</i> , 2012, 481, 321-328.	13.7	922
3	Cracking Brazil's Forest Code. <i>Science</i> , 2014, 344, 363-364.	6.0	767
4	Testing the performance of a dynamic global ecosystem model: Water balance, carbon balance, and vegetation structure. <i>Global Biogeochemical Cycles</i> , 2000, 14, 795-825.	1.9	608
5	Abrupt increases in Amazonian tree mortality due to drought–fire interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6347-6352.	3.3	576
6	Feedbacks between climate and boreal forests during the Holocene epoch. <i>Nature</i> , 1994, 371, 52-54.	13.7	493
7	Impact of vegetation and preferential source areas on global dust aerosol: Results from a model study. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 14-1-AAC 14-27.	3.3	453
8	Amazonia revealed: forest degradation and loss of ecosystem goods and services in the Amazon Basin. <i>Frontiers in Ecology and the Environment</i> , 2007, 5, 25-32.	1.9	439
9	The vulnerability of Amazon freshwater ecosystems. <i>Conservation Letters</i> , 2013, 6, 217-229.	2.8	411
10	The hydrology of the humid tropics. <i>Nature Climate Change</i> , 2012, 2, 655-662.	8.1	284
11	Human and natural impacts on the water resources of the Lake Chad basin. <i>Journal of Geophysical Research</i> , 2001, 106, 3349-3356.	3.3	259
12	Land-use change affects water recycling in Brazil's last agricultural frontier. <i>Global Change Biology</i> , 2016, 22, 3405-3413.	4.2	258
13	The influence of historical and potential future deforestation on the stream flow of the Amazon River – Land surface processes and atmospheric feedbacks. <i>Journal of Hydrology</i> , 2009, 369, 165-174.	2.3	240
14	Fire-induced tree mortality in a neotropical forest: the roles of bark traits, tree size, wood density and fire behavior. <i>Global Change Biology</i> , 2012, 18, 630-641.	4.2	225
15	Regime Shifts in the Sahara and Sahel: Interactions between Ecological and Climatic Systems in Northern Africa. <i>Ecosystems</i> , 2003, 6, 524-532.	1.6	212
16	Modeling the hydrological impact of land-use change in West Africa. <i>Journal of Hydrology</i> , 2007, 337, 258-268.	2.3	183
17	Dependence of hydropower energy generation on forests in the Amazon Basin at local and regional scales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9601-9606.	3.3	180
18	El Niño-Southern oscillation and the climate, ecosystems and rivers of Amazonia. <i>Global Biogeochemical Cycles</i> , 2002, 16, 79-179-20.	1.9	162

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19	The potential ecological costs and cobenefits of REDD: a critical review and case study from the Amazon region. <i>Global Change Biology</i> , 2009, 15, 2803-2824.	4.2	157
20	The effects of deforestation and climate variability on the streamflow of the Araguaia River, Brazil. <i>Biogeochemistry</i> , 2011, 105, 119-131.	1.7	155
21	Modeling Terrestrial Hydrological Systems at the Continental Scale: Testing the Accuracy of an Atmospheric GCM. <i>Journal of Climate</i> , 2000, 13, 686-704.	1.2	145
22	Effects of land cover change on evapotranspiration and streamflow of small catchments in the Upper Xingu River Basin, Central Brazil. <i>Journal of Hydrology: Regional Studies</i> , 2015, 4, 108-122.	1.0	142
23	Land surface feedbacks and palaeomonsoons in northern Africa. <i>Geophysical Research Letters</i> , 1998, 25, 3615-3618.	1.5	141
24	The gathering firestorm in southern Amazonia. <i>Science Advances</i> , 2020, 6, eaay1632.	4.7	132
25	Droughts, Wildfires, and Forest Carbon Cycling: A Pantropical Synthesis. <i>Annual Review of Earth and Planetary Sciences</i> , 2019, 47, 555-581.	4.6	131
26	Simulating the surface waters of the Amazon River basin: impacts of new river geomorphic and flow parameterizations. <i>Hydrological Processes</i> , 2008, 22, 2542-2553.	1.1	126
27	Modeling the impact of hydrological changes on nitrate transport in the Mississippi River Basin from 1955 to 1994. <i>Global Biogeochemical Cycles</i> , 2002, 16, 16-1-16-19.	1.9	119
28	A linked global model of terrestrial hydrologic processes: Simulation of modern rivers, lakes, and wetlands. <i>Journal of Geophysical Research</i> , 1998, 103, 8885-8899.	3.3	118
29	Deforestation and climate feedbacks threaten the ecological integrity of south-eastern Amazonia. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120155.	1.8	118
30	Solving Brazil's land use puzzle: Increasing production and slowing Amazon deforestation. <i>Land Use Policy</i> , 2020, 91, 104362.	2.5	118
31	Calculation of river discharge and prediction of lake height from satellite radar altimetry: Example for the Lake Chad basin. <i>Water Resources Research</i> , 2004, 40, .	1.7	116
32	Simulating fire regimes in the Amazon in response to climate change and deforestation. , 2011, 21, 1573-1590.		114
33	Agricultural expansion dominates climate changes in southeastern Amazonia: the overlooked non-GHG forcing. <i>Environmental Research Letters</i> , 2015, 10, 104015.	2.2	113
34	Small lakes dominate a random sample of regional lake characteristics. <i>Freshwater Biology</i> , 2007, 52, 814-822.	1.2	107
35	Land-use-driven stream warming in southeastern Amazonia. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120153.	1.8	104
36	The fate of Amazonian ecosystems over the coming century arising from changes in climate, atmospheric CO_2 and land use. <i>Global Change Biology</i> , 2015, 21, 2569-2587.	4.2	97

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37	Long-term simulations of discharge and floods in the Amazon Basin. <i>Journal of Geophysical Research</i> , 2002, 107, LBA 11-1.	3.3	96
38	Deforestation offsets water balance changes due to climate variability in the Xingu River in eastern Amazonia. <i>Journal of Hydrology</i> , 2015, 523, 822-829.	2.3	94
39	Large-scale expansion of agriculture in Amazonia may be a no-win scenario. <i>Environmental Research Letters</i> , 2013, 8, 024021.	2.2	93
40	Brazil's Market for Trading Forest Certificates. <i>PLoS ONE</i> , 2016, 11, e0152311.	1.1	91
41	Feedbacks between climate and surface water in northern Africa during the middle Holocene. <i>Journal of Geophysical Research</i> , 1997, 102, 11087-11101.	3.3	89
42	Conversion to soy on the Amazonian agricultural frontier increases streamflow without affecting stormflow dynamics. <i>Global Change Biology</i> , 2011, 17, 1821-1833.	4.2	89
43	Feedbacks between deforestation, climate, and hydrology in the Southwestern Amazon: implications for the provision of ecosystem services. <i>Landscape Ecology</i> , 2014, 29, 261-274.	1.9	89
44	The Susceptibility of Southeastern Amazon Forests to Fire: Insights from a Large-Scale Burn Experiment. <i>BioScience</i> , 2015, 65, 893-905.	2.2	89
45	Simulated Response of the Atmosphere-Ocean System to deforestation in the Indonesian Archipelago. <i>Geophysical Research Letters</i> , 2001, 28, 2081-2084.	1.5	79
46	The Unseen Effects of Deforestation: Biophysical Effects on Climate. <i>Frontiers in Forests and Global Change</i> , 2022, 5, .	1.0	77
47	Amazon wildfires: Scenes from a foreseeable disaster. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2020, 268, 151609.	0.6	75
48	Watershed responses to Amazon soya bean cropland expansion and intensification. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120425.	1.8	71
49	Ecology, economy and management of an agroindustrial frontier landscape in the southeast Amazon. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120152.	1.8	70
50	Surface water balance of the continental United States, 1963-1995: Regional evaluation of a terrestrial biosphere model and the NCEP/NCAR reanalysis. <i>Journal of Geophysical Research</i> , 2000, 105, 22393-22425.	3.3	69
51	Satellite-based hydrological dynamics of the world's largest continuous wetland. <i>Remote Sensing of Environment</i> , 2015, 170, 1-13.	4.6	64
52	The seasonal carbon and water balances of the Cerrado environment of Brazil: Past, present, and future influences of land cover and land use. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2016, 117, 66-78.	4.9	61
53	Root-Water-Uptake Based upon a New Water Stress Reduction and an Asymptotic Root Distribution Function. <i>Earth Interactions</i> , 2006, 10, 1-22.	0.7	58
54	Forest fragmentation, climate change and understory fire regimes on the Amazonian landscapes of the Xingu headwaters. <i>Landscape Ecology</i> , 2012, 27, 585-598.	1.9	58

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55	Deep soils modify environmental consequences of increased nitrogen fertilizer use in intensifying Amazon agriculture. <i>Scientific Reports</i> , 2018, 8, 13478.	1.6	56
56	Floodplain ecosystem processes. <i>Geophysical Monograph Series</i> , 2009, , 525-541.	0.1	54
57	Current and future patterns of fire-induced forest degradation in Amazonia. <i>Environmental Research Letters</i> , 2017, 12, 095005.	2.2	53
58	Improving simulated Amazon forest biomass and productivity by including spatial variation in biophysical parameters. <i>Biogeosciences</i> , 2013, 10, 2255-2272.	1.3	52
59	Investigation of Hydrological Variability in West Africa Using Land Surface Models. <i>Journal of Climate</i> , 2005, 18, 3173-3188.	1.2	49
60	The Forests of the Amazon and Cerrado Moderate Regional Climate and Are the Key to the Future. <i>Tropical Conservation Science</i> , 2017, 10, 194008291772067.	0.6	49
61	Comparison of the climate simulated by the CCM3 coupled to two different land-surface models. <i>Climate Dynamics</i> , 2002, 19, 657-669.	1.7	47
62	A review of green- and blue-water resources and their trade-offs for future agricultural production in the Amazon Basin: what could irrigated agriculture mean for Amazonia?. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 2179-2194.	1.9	44
63	Simulating Continental Surface Waters: An Application to Holocene Northern Africa. <i>Journal of Climate</i> , 1997, 10, 1680-1689.	1.2	43
64	Prolonged tropical forest degradation due to compounding disturbances: Implications for CO ₂ and H ₂ O fluxes. <i>Global Change Biology</i> , 2019, 25, 2855-2868.	4.2	43
65	Carbon and water cycling in lake-rich landscapes: Landscape connections, lake hydrology, and biogeochemistry. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	42
66	Climatic limit for agriculture in Brazil. <i>Nature Climate Change</i> , 2021, 11, 1098-1104.	8.1	40
67	Reimagining the potential of Earth observations for ecosystem service assessments. <i>Science of the Total Environment</i> , 2019, 665, 1053-1063.	3.9	39
68	Climate risks to Amazon agriculture suggest a rationale to conserve local ecosystems. <i>Frontiers in Ecology and the Environment</i> , 2019, 17, 584-590.	1.9	36
69	Effects of experimental fuel additions on fire intensity and severity: unexpected carbon resilience of a neotropical forest. <i>Global Change Biology</i> , 2016, 22, 2516-2525.	4.2	35
70	The water balance of northern Africa during the mid-Holocene: an evaluation of the 6 ka BP PMIP simulations. <i>Climate Dynamics</i> , 2002, 19, 155-166.	1.7	34
71	Changing Amazon biomass and the role of atmospheric CO ₂ concentration, climate, and land use. <i>Global Biogeochemical Cycles</i> , 2016, 30, 18-39.	1.9	32
72	BULC-U: Sharpening Resolution and Improving Accuracy of Land-Use/Land-Cover Classifications in Google Earth Engine. <i>Remote Sensing</i> , 2018, 10, 1455.	1.8	30

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73	Hydrologic budget of a land surface model: A global application. <i>Journal of Geophysical Research</i> , 1996, 101, 16921-16930.	3.3	28
74	Evaluating Water Use for Agricultural Intensification in Southern Amazonia Using the Water Footprint Sustainability Assessment. <i>Water (Switzerland)</i> , 2018, 10, 349.	1.2	27
75	Amazon floodplain hydrology and implications for aquatic conservation. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2021, 31, 1029-1040.	0.9	26
76	Land use, land cover, and climate change across the Mississippi Basin: Impacts on selected land and water resources. <i>Geophysical Monograph Series</i> , 2004, , 249-261.	0.1	25
77	Evaluating the seasonal and interannual variations in water balance in northern Wisconsin using a land surface model. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	24
78	Estimating Seasonal Changes in Volumetric Soil Water Content at Landscape Scales in a Savanna Ecosystem Using Two-Dimensional Resistivity Profiling. <i>Earth Interactions</i> , 2008, 12, 1-25.	0.7	24
79	Beyond Deforestation: Carbon Emissions From Land Grabbing and Forest Degradation in the Brazilian Amazon. <i>Frontiers in Forests and Global Change</i> , 2021, 4, .	1.0	23
80	Impacts of Climate Variation and Catchment Area on Water Balance and Lake Hydrologic Type in Groundwater-Dominated Systems: A Generic Lake Model. <i>Earth Interactions</i> , 2004, 8, 1-24.	0.7	20
81	Land use changes in Southeastern Amazon and trends in rainfall and water yield of the Xingu River during 1976â€”2015. <i>Climatic Change</i> , 2020, 162, 1419-1436.	1.7	20
82	Equivalent water thickness in savanna ecosystems: MODIS estimates based on ground and EO-1 Hyperion data. <i>International Journal of Remote Sensing</i> , 2011, 32, 7423-7440.	1.3	19
83	Effects of climatic variability and deforestation on surface water regimes. <i>Geophysical Monograph Series</i> , 2009, , 543-553.	0.1	18
84	How much inundation occurs in the Amazon River basin?. <i>Remote Sensing of Environment</i> , 2022, 278, 113099.	4.6	18
85	A macroscale hydrological data set of river flow routing parameters for the Amazon Basin. <i>Journal of Geophysical Research</i> , 2002, 107, LBA 6-1.	3.3	17
86	Surprisingly Modest Water Quality Impacts From Expansion and Intensification of Large-Sscale Commercial Agriculture in the Brazilian Amazon-Cerrado Region. <i>Tropical Conservation Science</i> , 2017, 10, 194008291772066.	0.6	17
87	Trends in streamflow, evapotranspiration, and groundwater storage across the Amazon Basin linked to changing precipitation and land cover. <i>Journal of Hydrology: Regional Studies</i> , 2020, 32, 100755.	1.0	16
88	Potential shifts in the aboveground biomass and physiognomy of a seasonally dry tropical forest in a changing climate. <i>Environmental Research Letters</i> , 2020, 15, 034053.	2.2	16
89	Droughts Amplify Differences Between the Energy Balance Components of Amazon Forests and Croplands. <i>Remote Sensing</i> , 2020, 12, 525.	1.8	15
90	Agricultural Expansion in Mato Grosso from 1986â€”2000: A Bayesian Time Series Approach to Tracking Past Land Cover Change. <i>Remote Sensing</i> , 2020, 12, 688.	1.8	12

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91	Land-Ocean-Atmosphere Interactions and Monsoon Climate Change. , 2001, , 73-86.		12
92	The Hydrologic Cycle of Major Continental Drainage and Ocean Basins: A Simulation of the Modern and Mid-Holocene Conditions and a Comparison with Observations. Journal of Climate, 1995, 8, 535-543.	1.2	11
93	Controls of climatic variability and land cover on land surface hydrology of northern Wisconsin, USA. Journal of Geophysical Research, 2008, 113, .	3.3	10
94	The Hydrology and Energy Balance of the Amazon Basin. Ecological Studies, 2016, , 35-53.	0.4	10
95	Impacts of Variations in Caspian Sea Surface Area on Catchmentâ€Scale and Largeâ€Scale Climate. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034251.	1.2	10
96	A close look at above ground biomass of a large and heterogeneous Seasonally Dry Tropical Forest - Caatinga in North East of Brazil. Anais Da Academia Brasileira De Ciencias, 2020, 92, e20190282.	0.3	9
97	Land Use and Climate. Remote Sensing and Digital Image Processing, 2012, , 301-314.	0.7	8
98	Indirect relationship between surface water budget and wetland extent. Geophysical Research Letters, 2002, 29, 5-1.	1.5	6
99	Science in support of Amazonian conservation in the 21st century: the case of Brazil. Biotropica, 2018, 50, 850-858.	0.8	6
100	Coupling the terrestrial hydrology model with biogeochemistry to the integrated LAND surface model: Amazon Basin applications. Hydrological Sciences Journal, 2018, 63, 1954-1966.	1.2	5
101	Water fluxes in the central Brazilian savanna: Seasonal patterns and land cover interdependencies as observed from GRACE, TRMM, and MODIS data. , 2012, , .		2
102	Land-Atmosphere Interactions. Advances in Meteorology, 2016, 2016, 1-1.	0.6	1
103	Modeling Nitrous Oxide Emissions From Large-Scale Intensive Cropping Systems in the Southern Amazon. Frontiers in Sustainable Food Systems, 2021, 5, .	1.8	1
104	Chapter 23: Impacts of deforestation and climate change on biodiversity, ecological processes, and environmental adaptation. , 2021, , .		1
105	Collective action can avoid the â€œtragedy of the Amazon commonsâ€. Frontiers in Ecology and the Environment, 2020, 18, 430-431.	1.9	0