

Marshall B Burke

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

15,210
citations

53794

45
h-index

88630

70
g-index

88
all docs

88
docs citations

88
times ranked

14592
citing authors

#	ARTICLE	IF	CITATIONS
1	Prioritizing Climate Change Adaptation Needs for Food Security in 2030. <i>Science</i> , 2008, 319, 607-610.	12.6	2,309
2	Global non-linear effect of temperature on economic production. <i>Nature</i> , 2015, 527, 235-239.	27.8	1,425
3	Quantifying the Influence of Climate on Human Conflict. <i>Science</i> , 2013, 341, 1235367.	12.6	1,202
4	Combining satellite imagery and machine learning to predict poverty. <i>Science</i> , 2016, 353, 790-794.	12.6	938
5	Warming increases the risk of civil war in Africa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 20670-20674.	7.1	711
6	On the use of statistical models to predict crop yield responses to climate change. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 1443-1452.	4.8	636
7	Global warming has increased global economic inequality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9808-9813.	7.1	413
8	Climate and Conflict. <i>Annual Review of Economics</i> , 2015, 7, 577-617.	5.5	409
9	Adaptation to Climate Change: Evidence from US Agriculture. <i>American Economic Journal: Economic Policy</i> , 2016, 8, 106-140.	3.1	382
10	The poverty implications of climate-induced crop yield changes by 2030. <i>Global Environmental Change</i> , 2010, 20, 577-585.	7.8	364
11	Climate as a risk factor for armed conflict. <i>Nature</i> , 2019, 571, 193-197.	27.8	306
12	Why are agricultural impacts of climate change so uncertain? The importance of temperature relative to precipitation. <i>Environmental Research Letters</i> , 2008, 3, 034007.	5.2	299
13	Higher temperatures increase suicide rates in the United States and Mexico. <i>Nature Climate Change</i> , 2018, 8, 723-729.	18.8	286
14	Satellite-based assessment of yield variation and its determinants in smallholder African systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2189-2194.	7.1	256
15	Climate, conflict, and social stability: what does the evidence say?. <i>Climatic Change</i> , 2014, 123, 39-55.	3.6	252
16	Assessing risks of climate variability and climate change for Indonesian rice agriculture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 7752-7757.	7.1	247
17	AQUACULTURE AND OCEAN RESOURCES: Raising Tigers of the Sea. <i>Annual Review of Environment and Resources</i> , 2005, 30, 185-218.	13.4	246
18	The Ripple Effect: Biofuels, Food Security, and the Environment. <i>Environment</i> , 2007, 49, 30-43.	1.4	246

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19	The changing risk and burden of wildfire in the United States. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	238
20	Smallholder maize area and yield mapping at national scales with Google Earth Engine. Remote Sensing of Environment, 2019, 228, 115-128.	11.0	235
21	Robust relationship between air quality and infant mortality in Africa. Nature, 2018, 559, 254-258.	27.8	230
22	Shifts in African crop climates by 2050, and the implications for crop improvement and genetic resources conservation. Global Environmental Change, 2009, 19, 317-325.	7.8	221
23	Large potential reduction in economic damages under UN mitigation targets. Nature, 2018, 557, 549-553.	27.8	214
24	Solar-powered drip irrigation enhances food security in the Sudano-Saharan Sahel. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1848-1853.	7.1	179
25	International Trade in Meat: The Tip of the Pork Chop. Ambio, 2007, 36, 622-629.	5.5	161
26	Using publicly available satellite imagery and deep learning to understand economic well-being in Africa. Nature Communications, 2020, 11, 2583.	12.8	158
27	The COVID-19 lockdowns: a window into the Earth System. Nature Reviews Earth & Environment, 2020, 1, 470-481.	29.7	153
28	Incorporating Climate Uncertainty into Estimates of Climate Change Impacts. Review of Economics and Statistics, 2015, 97, 461-471.	4.3	148
29	Using satellite imagery to understand and promote sustainable development. Science, 2021, 371, .	12.6	138
30	Opportunities for advances in climate change economics. Science, 2016, 352, 292-293.	12.6	117
31	Estimating global agricultural effects of geoengineering using volcanic eruptions. Nature, 2018, 560, 480-483.	27.8	107
32	Armed conflict and child mortality in Africa: a geospatial analysis. Lancet, The, 2018, 392, 857-865.	13.7	103
33	Contribution of historical precipitation change to US flood damages. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	103
34	Income Shocks and HIV in Africa. Economic Journal, 2015, 125, 1157-1189.	3.6	101
35	Sell Low and Buy High: Arbitrage and Local Price Effects in Kenyan Markets*. Quarterly Journal of Economics, 2019, 134, 785-842.	8.6	95
36	Eyes in the Sky, Boots on the Ground: Assessing Satellite- and Ground-Based Approaches to Crop Yield Measurement and Analysis. American Journal of Agricultural Economics, 2020, 102, 202-219.	4.3	86

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37	Sources of variation in under-5 mortality across sub-Saharan Africa: a spatial analysis. <i>The Lancet Global Health</i> , 2016, 4, e936-e945.	6.3	77
38	The Economic Origins of Conflict in Africa. <i>Journal of Political Economy</i> , 2020, 128, 3940-3997.	4.5	69
39	Mapping Smallholder Yield Heterogeneity at Multiple Scales in Eastern Africa. <i>Remote Sensing</i> , 2017, 9, 931.	4.0	66
40	Associations between wildfire smoke exposure during pregnancy and risk of preterm birth in California. <i>Environmental Research</i> , 2022, 203, 111872.	7.5	66
41	Climate robustly linked to African civil war. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, E185; author reply E186-7.	7.1	64
42	Exposures and behavioural responses to wildfire smoke. <i>Nature Human Behaviour</i> , 2022, 6, 1351-1361.	12.0	60
43	Women and children living in areas of armed conflict in Africa: a geospatial analysis of mortality and orphanhood. <i>The Lancet Global Health</i> , 2019, 7, e1622-e1631.	6.3	56
44	Flood Size Increases Nonlinearly Across the Western United States in Response to Lower Snowâ€Precipitation Ratios. <i>Water Resources Research</i> , 2020, 56, e2019WR025571.	4.2	53
45	Addressing Climate Change and Its Effects on Human Health: A Call to Action for Medical Schools. <i>Academic Medicine</i> , 2021, 96, 324-328.	1.6	51
46	Food Security and Adaptation to Climate Change: What Do We Know?. <i>Advances in Global Change Research</i> , 2010, , 133-153.	1.6	48
47	Using climate models to improve Indonesian food security. <i>Bulletin of Indonesian Economic Studies</i> , 2004, 40, 355-377.	1.6	44
48	The effect of information about climate risk on property values. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	44
49	A Global Model Tracking Water, Nitrogen, and Land Inputs and Virtual Transfers from Industrialized Meat Production and Trade. <i>Environmental Modeling and Assessment</i> , 2009, 14, 179-193.	2.2	40
50	Anticipated burden and mitigation of carbon-dioxide-induced nutritional deficiencies and related diseases: A simulation modeling study. <i>PLoS Medicine</i> , 2018, 15, e1002586.	8.4	40
51	Directions for Research on Climate and Conflict. <i>Earth's Future</i> , 2020, 8, e2020EF001532.	6.3	37
52	Generating Interpretable Poverty Maps using Object Detection in Satellite Images. , 2020, , .		37
53	Sight for Sorghums: Comparisons of Satellite- and Ground-Based Sorghum Yield Estimates in Mali. <i>Remote Sensing</i> , 2020, 12, 100.	4.0	35
54	Impacts of El Nino-Southern Oscillation events on Chinaâ€™s rice production. <i>Journal of Chinese Geography</i> , 2010, 20, 3-16.	3.9	34

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55	Non-economic factors in violence: Evidence from organized crime, suicides and climate in Mexico. <i>Journal of Economic Behavior and Organization</i> , 2019, 168, 434-452.	2.0	33
56	Dust pollution from the Sahara and African infant mortality. <i>Nature Sustainability</i> , 2020, 3, 863-871.	23.7	33
57	Predicting Economic Development using Geolocated Wikipedia Articles. , 2019, , .		31
58	Climate Effects on Food Security: An Overview. <i>Advances in Global Change Research</i> , 2010, , 13-30.	1.6	30
59	Infrastructure Quality Assessment in Africa using Satellite Imagery and Deep Learning. , 2018, , .		29
60	Historical warming has increased U.S. crop insurance losses. <i>Environmental Research Letters</i> , 2021, 16, 084025.	5.2	27
61	Reconciling climate-conflict meta-analyses: reply to Buhaug et al.. <i>Climatic Change</i> , 2014, 127, 399-405.	3.6	24
62	Temperature and violence. <i>Nature Climate Change</i> , 2014, 4, 234-235.	18.8	24
63	Upstream oil and gas production and ambient air pollution in California. <i>Science of the Total Environment</i> , 2022, 806, 150298.	8.0	23
64	Conflict in a changing climate. <i>European Physical Journal: Special Topics</i> , 2016, 225, 489-511.	2.6	21
65	Adaptation to Climate Change: Evidence from US Agriculture. <i>SSRN Electronic Journal</i> , 0, , .	0.4	17
66	Using remotely sensed temperature to estimate climate response functions. <i>Environmental Research Letters</i> , 2017, 12, 014013.	5.2	17
67	Quantifying the Effect of Precipitation on Landslide Hazard in Urbanized and Non-Urbanized Areas. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094038.	4.0	17
68	Reply to Sutton et al.: Relationship between temperature and conflict is robust. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, .	7.1	16
69	Scalable deep learning to identify brick kilns and aid regulatory capacity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	16
70	Mapping Missing Population in Rural India. , 2019, , .		15
71	Farm Parcel Delineation Using Spatio-temporal Convolutional Networks. , 2020, , .		14
72	Learning to Interpret Satellite Images using Wikipedia. , 2019, , .		13

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73	SOME RESEARCH CHALLENGES IN THE ECONOMICS OF CLIMATE CHANGE. <i>Climate Change Economics</i> , 2016, 07, 1650002.	5.0	10
74	Twice Is Nice: The Benefits of Two Ground Measures for Evaluating the Accuracy of Satellite-Based Sustainability Estimates. <i>Remote Sensing</i> , 2021, 13, 3160.	4.0	9
75	Reply to Rosen: Temperatureâ€™growth relationship is robust. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16171-16172.	7.1	4
76	Economic Shocks and Varieties of Conflict: Global Prices, Real Income and Local Violence in Africa. <i>SSRN Electronic Journal</i> , 0, , .	0.4	4
77	Global and Regional Assessments. <i>Advances in Global Change Research</i> , 2010, , 177-192.	1.6	2
78	Reply to: Temporal displacement, adaptation and the effect of climate on suicide rates. <i>Nature Climate Change</i> , 2020, 10, 502-504.	18.8	2
79	Comment on â€™Food Abundance and Violent Conflict in Africaâ€™. <i>American Journal of Agricultural Economics</i> , 2018, 100, 1007-1009.	4.3	0
80	Back to the root causes of war: food shortages â€™ Authors' reply. <i>Lancet, The</i> , 2019, 393, 982.	13.7	0