

Ben Zaitchik

List of Publications by Year in descending order

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Version: 2024-02-01

195
papers

7,299
citations

66234

42
h-index

74018

75
g-index

210
all docs

210
docs citations

210
times ranked

8887
citing authors

#	ARTICLE	IF	CITATIONS
1	Assimilation of GRACE Terrestrial Water Storage Data into a Land Surface Model: Results for the Mississippi River Basin. <i>Journal of Hydrometeorology</i> , 2008, 9, 535-548.	0.7	366
2	Drought indicators based on model-assimilated Gravity Recovery and Climate Experiment (GRACE) terrestrial water storage observations. <i>Water Resources Research</i> , 2012, 48, .	1.7	310
3	Facilitative plant interactions and climate simultaneously drive alpine plant diversity. <i>Ecology Letters</i> , 2014, 17, 193-202.	3.0	274
4	Heat waves in the United States: definitions, patterns and trends. <i>Climatic Change</i> , 2013, 118, 811-825.	1.7	241
5	Global GRACE Data Assimilation for Groundwater and Drought Monitoring: Advances and Challenges. <i>Water Resources Research</i> , 2019, 55, 7564-7586.	1.7	229
6	Machine learning methods for empirical streamflow simulation: a comparison of model accuracy, interpretability, and uncertainty in seasonal watersheds. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 2611-2628.	1.9	183
7	Europe's 2003 heat wave: a satellite view of impacts and land-atmosphere feedbacks. <i>International Journal of Climatology</i> , 2006, 26, 743-769.	1.5	181
8	A Review of Drought in the Middle East and Southwest Asia. <i>Journal of Climate</i> , 2016, 29, 8547-8574.	1.2	163
9	Assimilation of GRACE terrestrial water storage into a land surface model: Evaluation and potential value for drought monitoring in western and central Europe. <i>Journal of Hydrology</i> , 2012, 446-447, 103-115.	2.3	154
10	Alpine cushion plants inhibit the loss of phylogenetic diversity in severe environments. <i>Ecology Letters</i> , 2013, 16, 478-486.	3.0	151
11	Assimilation of Gridded GRACE Terrestrial Water Storage Estimates in the North American Land Data Assimilation System. <i>Journal of Hydrometeorology</i> , 2016, 17, 1951-1972.	0.7	137
12	Agroecosystem specific climate vulnerability analysis: application of the livelihood vulnerability index to a tropical highland region. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2016, 21, 39-65.	1.0	136
13	Heat Waves and Health Outcomes in Alabama (USA): The Importance of Heat Wave Definition. <i>Environmental Health Perspectives</i> , 2014, 122, 151-158.	2.8	131
14	Classifying rangeland vegetation type and coverage from NDVI time series using Fourier Filtered Cycle Similarity. <i>International Journal of Remote Sensing</i> , 2005, 26, 5535-5554.	1.3	130
15	Towards an integrated soil moisture drought monitor for East Africa. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 2893-2913.	1.9	129
16	Evaluation of the Global Land Data Assimilation System using global river discharge data and a source-to-sink routing scheme. <i>Water Resources Research</i> , 2010, 46, .	1.7	113
17	Opportunities and Challenges for Personal Heat Exposure Research. <i>Environmental Health Perspectives</i> , 2017, 125, 085001.	2.8	110
18	Forward-Looking Assimilation of MODIS-Derived Snow-Covered Area into a Land Surface Model. <i>Journal of Hydrometeorology</i> , 2009, 10, 130-148.	0.7	98

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19	Estimating the Impact of Drought on Agriculture Using the U.S. Drought Monitor. <i>American Journal of Agricultural Economics</i> , 2019, 101, 193-210.	2.4	97
20	Integrated modeling of aerosol, cloud, precipitation and land processes at satellite-resolved scales. <i>Environmental Modelling and Software</i> , 2015, 67, 149-159.	1.9	95
21	NASA's Remotely Sensed Precipitation: A Reservoir for Applications Users. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 1169-1184.	1.7	90
22	Night and day: The influence and relative importance of urban characteristics on remotely sensed land surface temperature. <i>Remote Sensing of Environment</i> , 2020, 247, 111861.	4.6	85
23	Andropogoneae Evolution and Generic Limits in Sorghum (Poaceae) Using ndhF Sequences. <i>Systematic Botany</i> , 1999, 24, 267.	0.2	75
24	Impact of Irrigation Methods on Land Surface Model Spinup and Initialization of WRF Forecasts. <i>Journal of Hydrometeorology</i> , 2015, 16, 1135-1154.	0.7	75
25	Agroecosystem Analysis of the Choke Mountain Watersheds, Ethiopia. <i>Sustainability</i> , 2013, 5, 592-616.	1.6	73
26	Examining the role of unusually warm Indo-Pacific sea surface temperatures in recent African droughts. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 360-383.	1.0	70
27	Comparison of prognostic and diagnostic surface flux modeling approaches over the Nile River basin. <i>Water Resources Research</i> , 2014, 50, 386-408.	1.7	68
28	El Niño and the shifting geography of cholera in Africa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4436-4441.	3.3	68
29	Trend and periodicity of drought over Ethiopia. <i>International Journal of Climatology</i> , 2017, 37, 4733-4748.	1.5	65
30	Area-level risk factors for adverse birth outcomes: trends in urban and rural settings. <i>BMC Pregnancy and Childbirth</i> , 2013, 13, 129.	0.9	64
31	An integrated modeling system for estimating glacier and snow melt driven streamflow from remote sensing and earth system data products in the Himalayas. <i>Journal of Hydrology</i> , 2014, 519, 1859-1869.	2.3	63
32	Representation of Soil Moisture Feedbacks during Drought in NASA Unified WRF (NU-WRF). <i>Journal of Hydrometeorology</i> , 2013, 14, 360-367.	0.7	62
33	Evaluating meteorological data from weather stations, and from satellites and global models for a multi-site epidemiological study. <i>Environmental Research</i> , 2018, 165, 91-109.	3.7	62
34	Modulation of Daily Precipitation over East Africa by the Madden-Julian Oscillation*. <i>Journal of Climate</i> , 2014, 27, 6016-6034.	1.2	61
35	Remotely sensed estimates of surface salinity in the Chesapeake Bay: A statistical approach. <i>Remote Sensing of Environment</i> , 2012, 123, 522-531.	4.6	60
36	Regional Impact of an Elevated Heat Source: The Zagros Plateau of Iran. <i>Journal of Climate</i> , 2007, 20, 4133-4146.	1.2	53

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37	Climate and Vegetation in the Middle East: Interannual Variability and Drought Feedbacks. <i>Journal of Climate</i> , 2007, 20, 3924-3941.	1.2	51
38	Satellite-based hybrid drought monitoring tool for prediction of vegetation condition in Eastern Africa: A case study for Ethiopia. <i>Water Resources Research</i> , 2014, 50, 2176-2190.	1.7	50
39	Temperature and heat in informal settlements in Nairobi. <i>PLoS ONE</i> , 2017, 12, e0187300.	1.1	50
40	Groundwater Withdrawals Under Drought: Reconciling GRACE and Land Surface Models in the United States High Plains Aquifer. <i>Water Resources Research</i> , 2018, 54, 5282-5299.	1.7	49
41	Vulnerability of sorghum production to extreme, sub-seasonal weather under climate change. <i>Environmental Research Letters</i> , 2019, 14, 045005.	2.2	49
42	Evaluating the Uncertainty of Terrestrial Water Budget Components Over High Mountain Asia. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	47
43	Flash drought onset over the contiguous United States: sensitivity of inventories and trends to quantitative definitions. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 565-581.	1.9	47
44	Madden-Julian Oscillation impacts on tropical African precipitation. <i>Atmospheric Research</i> , 2017, 184, 88-102.	1.8	46
45	Associations between meteorology and COVID-19 in early studies: Inconsistencies, uncertainties, and recommendations. <i>One Health</i> , 2021, 12, 100225.	1.5	46
46	Regional Atmospheric Circulation and Rainfall Variability in South Equatorial Africa. <i>Journal of Climate</i> , 2015, 28, 809-818.	1.2	44
47	A framework for research linking weather, climate and COVID-19. <i>Nature Communications</i> , 2020, 11, 5730.	5.8	44
48	Building Climate Resilience in the Blue Nile/Abay Highlands: A Role for Earth System Sciences. <i>International Journal of Environmental Research and Public Health</i> , 2012, 9, 435-461.	1.2	43
49	Perspectives on <scp>CMIP5</scp> model performance in the Nile River headwaters regions. <i>International Journal of Climatology</i> , 2015, 35, 4262-4275.	1.5	43
50	Modeling the large-scale water balance impact of different irrigation systems. <i>Water Resources Research</i> , 2008, 44, .	1.7	42
51	Geospatial interpolation of MODIS-derived salinity and temperature in the Chesapeake Bay. <i>Remote Sensing of Environment</i> , 2013, 135, 167-177.	4.6	42
52	Subseasonal Analysis of Precipitation Variability in the Blue Nile River Basin. <i>Journal of Climate</i> , 2014, 27, 325-344.	1.2	42
53	Application of Statistical Models to the Prediction of Seasonal Rainfall Anomalies over the Sahel. <i>Journal of Applied Meteorology and Climatology</i> , 2014, 53, 614-636.	0.6	42
54	Assimilating GRACE Into a Land Surface Model in the Presence of an Irrigation-induced Groundwater Trend. <i>Water Resources Research</i> , 2019, 55, 11274-11294.	1.7	42

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55	Impacts of Anthropogenic Heat on Summertime Rainfall in Beijing. <i>Journal of Hydrometeorology</i> , 2017, 18, 693-712.	0.7	38
56	A tool for hierarchical climate regionalization. <i>Earth Science Informatics</i> , 2015, 8, 949-958.	1.6	37
57	Building Climate Resilience in the Blue Nile/Abay Highlands: A Framework for Action. <i>International Journal of Environmental Research and Public Health</i> , 2012, 9, 610-631.	1.2	34
58	Erosion hotspot identification in the sub-humid Ethiopian highlands. <i>Ecohydrology and Hydrobiology</i> , 2019, 19, 146-154.	1.0	34
59	Heat waves and fatal traffic crashes in the continental United States. <i>Accident Analysis and Prevention</i> , 2018, 119, 195-201.	3.0	32
60	Toward park design optimization to mitigate the urban heat Island: Assessment of the cooling effect in five U.S. cities. <i>Sustainable Cities and Society</i> , 2022, 81, 103870.	5.1	32
61	The Madden-Julian Oscillation's Influence on Spring Rainy Season Precipitation over Equatorial West Africa*. <i>Journal of Climate</i> , 2015, 28, 8653-8672.	1.2	31
62	Lake Chad Total Surface Water Area as Derived from Land Surface Temperature and Radar Remote Sensing Data. <i>Remote Sensing</i> , 2018, 10, 252.	1.8	31
63	The NASA Hydrological Forecast System for Food and Water Security Applications. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E1007-E1025.	1.7	31
64	The role of local heating in the 2015 Indian Heat Wave. <i>Scientific Reports</i> , 2017, 7, 7707.	1.6	30
65	GRACE Improves Seasonal Groundwater Forecast Initialization over the United States. <i>Journal of Hydrometeorology</i> , 2020, 21, 59-71.	0.7	29
66	The Sustainability of Community-Based Adaptation Projects in the Blue Nile Highlands of Ethiopia. <i>Sustainability</i> , 2014, 6, 4308-4325.	1.6	28
67	Can Multispectral Information Improve Remotely Sensed Estimates of Total Suspended Solids? A Statistical Study in Chesapeake Bay. <i>Remote Sensing</i> , 2018, 10, 1393.	1.8	28
68	Changing Patterns of Tree Cover in a Tropical Highland Region and Implications for Food, Energy, and Water Resources. <i>Frontiers in Environmental Science</i> , 2019, 7, .	1.5	28
69	The question of Sudan: a hydro-economic optimization model for the Sudanese Blue Nile. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 2275-2293.	1.9	27
70	Determining Particulate Matter and Black Carbon Exfiltration Estimates for Traditional Cookstove Use in Rural Nepalese Village Households. <i>Environmental Science & Technology</i> , 2015, 49, 5555-5562.	4.6	27
71	Shocks, seasonality, and disaggregation: Modelling food security through the integration of agricultural, transportation, and economic systems. <i>Agricultural Systems</i> , 2018, 164, 165-184.	3.2	26
72	Pathogen-Specific Impacts of the 2011-2012 La Niña-Associated Floods on Enteric Infections in the MAL-ED Peru Cohort: A Comparative Interrupted Time Series Analysis. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 487.	1.2	26

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73	MODIS-Derived Boundary Conditions for a Mesoscale Climate Model: Application to Irrigated Agriculture in the Euphrates Basin. <i>Monthly Weather Review</i> , 2005, 133, 1727-1743.	0.5	25
74	Land Cover Classification in Complex and Fragmented Agricultural Landscapes of the Ethiopian Highlands. <i>Remote Sensing</i> , 2016, 8, 1020.	1.8	25
75	Carbon sequestration via wood harvest and storage: An assessment of its harvest potential. <i>Climatic Change</i> , 2013, 118, 245-257.	1.7	24
76	Local Perceptions of Water-Energy-Food Security: Livelihood Consequences of Dam Construction in Ethiopia. <i>Sustainability</i> , 2020, 12, 2161.	1.6	24
77	Associations Between Eight Earth Observation-Derived Climate Variables and Enteropathogen Infection: An Independent Participant Data Meta-Analysis of Surveillance Studies With Broad Spectrum Nucleic Acid Diagnostics. <i>GeoHealth</i> , 2022, 6, e2021GH000452.	1.9	24
78	Regionalizing Africa: Patterns of Precipitation Variability in Observations and Global Climate Models. <i>Journal of Climate</i> , 2016, 29, 9027-9043.	1.2	23
79	Monthly flooded area classification using low resolution SAR imagery in the Sudd wetland from 2007 to 2011. <i>Remote Sensing of Environment</i> , 2017, 194, 205-218.	4.6	23
80	Intraurban Temperature Variability in Baltimore. <i>Journal of Applied Meteorology and Climatology</i> , 2017, 56, 159-171.	0.6	23
81	Impact of Soil Conservation and Eucalyptus on Hydrology and Soil Loss in the Ethiopian Highlands. <i>Water (Switzerland)</i> , 2019, 11, 2299.	1.2	23
82	Irrigation Water Demand Sensitivity to Climate Variability Across the Contiguous United States. <i>Water Resources Research</i> , 2021, 57, 2020WR027738.	1.7	23
83	The NASA Global Flood Mapping System. <i>Springer Remote Sensing/photogrammetry</i> , 2017, , 47-63.	0.4	22
84	Use of earth observation-derived hydrometeorological variables to model and predict rotavirus infection (MAL-ED): a multisite cohort study. <i>Lancet Planetary Health</i> , The, 2019, 3, e248-e258.	5.1	22
85	Land Cover Change in the Blue Nile River Headwaters: Farmers's™ Perceptions, Pressures, and Satellite-Based Mapping. <i>Land</i> , 2021, 10, 68.	1.2	22
86	Development of Male Flowers in <i>Zizania aquatica</i> (North American Wild Rice; Gramineae). <i>International Journal of Plant Sciences</i> , 2000, 161, 345-351.	0.6	21
87	Influence of Precipitation Forcing Uncertainty on Hydrological Simulations with the NASA South Asia Land Data Assimilation System. <i>Hydrology</i> , 2018, 5, 57.	1.3	21
88	Characterizing climate change risks by linking robust decision frameworks and uncertain probabilistic projections. <i>Climatic Change</i> , 2018, 151, 525-539.	1.7	20
89	Out of the net: An agent-based model to study human movements influence on local-scale malaria transmission. <i>PLoS ONE</i> , 2018, 13, e0193493.	1.1	20
90	A predictive model for Lake Chad total surface water area using remotely sensed and modeled hydrological and meteorological parameters and multivariate regression analysis. <i>Journal of Hydrology</i> , 2019, 568, 1071-1080.	2.3	20

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91	Spatial and temporal variation in the isotopic composition of Ethiopian precipitation. <i>Journal of Hydrology</i> , 2020, 585, 124364.	2.3	20
92	Evaluation of Satellite Rainfall Estimates for Meteorological Drought Analysis over the Upper Blue Nile Basin, Ethiopia. <i>Geosciences (Switzerland)</i> , 2020, 10, 352.	1.0	20
93	Uncertainty in Model Predictions of <i>Vibrio vulnificus</i> Response to Climate Variability and Change: A Chesapeake Bay Case Study. <i>PLoS ONE</i> , 2014, 9, e98256.	1.1	20
94	Modeling Slope Stability in Honduras. <i>Soil Science Society of America Journal</i> , 2003, 67, 268-278.	1.2	19
95	Are the Central Andes Mountains a Warming Hot Spot?. <i>Journal of Climate</i> , 2017, 30, 3589-3608.	1.2	19
96	A nine-year study on the benefits and risks of soil and water conservation practices in the humid highlands of Ethiopia: The Debre Mawi watershed. <i>Journal of Environmental Management</i> , 2020, 270, 110885.	3.8	19
97	The Impact of Climate Change on Agriculture Production in Ethiopia: Application of a Dynamic Computable General Equilibrium Model. <i>American Journal of Climate Change</i> , 2021, 10, 32-50.	0.5	19
98	Mapping and Quantifying Comprehensive Land Degradation Status Using Spatial Multicriteria Evaluation Technique in the Headwaters Area of Upper Blue Nile River. <i>Sustainability</i> , 2021, 13, 2244.	1.6	19
99	Climate has contrasting direct and indirect effects on armed conflicts. <i>Environmental Research Letters</i> , 2020, 15, 104017.	2.2	19
100	Linking Seasonal Predictions to Decision-Making and Disaster Management in the Greater Horn of Africa. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, ES89-ES92.	1.7	18
101	Robust decision making in data scarce contexts: addressing data and model limitations for infrastructure planning under transient climate change. <i>Climatic Change</i> , 2017, 140, 323-337.	1.7	18
102	The Value of Remotely Sensed Information: The Case of a GRACE-Enhanced Drought Severity Index. <i>Weather, Climate, and Society</i> , 2018, 10, 187-203.	0.5	18
103	Associations between Household-Level Exposures and All-Cause Diarrhea and Pathogen-Specific Enteric Infections in Children Enrolled in Five Sentinel Surveillance Studies. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8078.	1.2	18
104	Methods for Estimating Wet Bulb Globe Temperature From Remote and Low-Cost Data: A Comparative Study in Central Alabama. <i>GeoHealth</i> , 2020, 4, e2019GH000231.	1.9	18
105	A macroinvertebrate multi-metric index for Ethiopian highland streams. <i>Hydrobiologia</i> , 2019, 843, 125-141.	1.0	17
106	Recent Advances in Land Data Assimilation at the NASA Global Modeling and Assimilation Office. , 2009, , 407-428.		17
107	Improving early warning of drought-driven food insecurity in southern Africa using operational hydrological monitoring and forecasting products. <i>Natural Hazards and Earth System Sciences</i> , 2020, 20, 1187-1201.	1.5	17
108	Estimating Occupational Heat Exposure From Personal Sampling of Public Works Employees in Birmingham, Alabama. <i>Journal of Occupational and Environmental Medicine</i> , 2019, 61, 518-524.	0.9	16

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109	Evaluation of remotely sensed prediction and forecast models for <i>Vibrio parahaemolyticus</i> in the Chesapeake Bay. <i>Remote Sensing of Environment</i> , 2020, 250, 112016.	4.6	16
110	Lack of vegetation exacerbates exposure to dangerous heat in dense settlements in a tropical African city. <i>Environmental Research Letters</i> , 2022, 17, 024004.	2.2	16
111	Individual and community level factors with a significant role in determining child height-for-age Z score in East Gojjam Zone, Amhara Regional State, Ethiopia: a multilevel analysis. <i>Archives of Public Health</i> , 2017, 75, 27.	1.0	15
112	Impact of water and energy infrastructure on local well-being: an agent-based analysis of the water-energy-food nexus. <i>Structural Change and Economic Dynamics</i> , 2020, 55, 165-176.	2.1	15
113	Water, Geography, and Aksumite Civilization: The Southern Red Sea Archaeological Histories (SRSAH) Project Survey (2009–2016). <i>African Archaeological Review</i> , 2020, 37, 51-67.	0.8	15
114	Madden’s Julian oscillation influence on sub-seasonal rainfall variability on the west of South America. <i>Climate Dynamics</i> , 2020, 54, 2167-2185.	1.7	15
115	Emergency department visits associated with satellite observed flooding during and following Hurricane Harvey. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2021, 31, 832-841.	1.8	15
116	Cascading Drought–Heat Dynamics During the 2021 Southwest United States Heatwave. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	15
117	Methods for Estimating Population Density in Data-Limited Areas: Evaluating Regression and Tree-Based Models in Peru. <i>PLoS ONE</i> , 2014, 9, e100037.	1.1	14
118	Modeling the impact of highland settlements on ecological disturbance of streams in Choke Mountain Catchment: Macroinvertebrate assemblages and water quality. <i>Ecological Indicators</i> , 2017, 73, 452-459.	2.6	14
119	Simulating Behavioral Influences on Community Flood Risk under Future Climate Scenarios. <i>Risk Analysis</i> , 2020, 40, 884-898.	1.5	14
120	Analysis of the Spatial Variability of Soil Texture in a Tropical Highland: The Case of the Jema Watershed, Northwestern Highlands of Ethiopia. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 1903.	1.2	13
121	Identifying Key Water Resource Vulnerabilities in Data–Scarce Transboundary River Basins. <i>Water Resources Research</i> , 2018, 54, 5264-5281.	1.7	13
122	Enabling Stakeholder Decision-Making With Earth Observation and Modeling Data Using Tethys Platform. <i>Frontiers in Environmental Science</i> , 2019, 7, .	1.5	13
123	Impact of hydropower development on rural livelihood: An agent-based exploration. <i>Journal of Cleaner Production</i> , 2020, 275, 122333.	4.6	13
124	A meta-analysis of plant facilitation in coastal dune systems: responses, regions, and research gaps. <i>PeerJ</i> , 2015, 3, e768.	0.9	13
125	Interdecadal <i>Trichodesmium</i> variability in cold North Atlantic waters. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1620-1638.	1.9	12
126	<i>Vibrio parahaemolyticus</i> in the Chesapeake Bay: Operational <i>In Situ</i> Prediction and Forecast Models Can Benefit from Inclusion of Lagged Water Quality Measurements. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	12

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127	Temperature anomalies affect violent conflicts in African and Middle Eastern warm regions. <i>Global Environmental Change</i> , 2020, 63, 102118.	3.6	12
128	A Data-Driven Framework to Characterize State-Level Water Use in the United States. <i>Water Resources Research</i> , 2020, 56, e2019WR024894.	1.7	12
129	Analyzing constraints in the water-energy-food nexus: The case of eucalyptus plantation in Ethiopia. <i>Ecological Economics</i> , 2021, 180, 106875.	2.9	12
130	Modeling Slope Stability in Honduras. <i>Soil Science Society of America Journal</i> , 2003, 67, 268.	1.2	12
131	Towards effective drought monitoring in the Middle East and North Africa (MENA) region: implications from assimilating leaf area index and soil moisture into the Noah-MP land surface model for Morocco. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 2365-2386.	1.9	12
132	Policies, plans, practice, and prospects: irrigation in northeastern Syria. <i>Land Degradation and Development</i> , 2007, 18, 133-152.	1.8	11
133	Climate, agriculture, and hunger: statistical prediction of undernourishment using nonlinear regression and data-mining techniques. <i>Journal of Applied Statistics</i> , 2015, 42, 2367-2390.	0.6	11
134	Potential for city parks to reduce exposure to BTEX in air. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 40-50.	1.7	11
135	The seasonality of cholera in sub-Saharan Africa: a statistical modelling study. <i>The Lancet Global Health</i> , 2022, 10, e831-e839.	2.9	11
136	Using enhanced GRACE water storage data to improve drought detection by the U.S. and North American Drought Monitors. , 2010, , .		10
137	Influence of the Spatial Resolution of the Exposure Estimate in Determining the Association between Heat Waves and Adverse Health Outcomes. <i>Annals of the American Association of Geographers</i> , 2019, 109, 875-886.	1.5	10
138	Estimating variability in downwelling surface shortwave radiation in a tropical highland environment. <i>PLoS ONE</i> , 2019, 14, e0211220.	1.1	10
139	Rainfall Variability across the Agro-Climatic Zones of a Tropical Highland: The Case of the Jema Watershed, Northwestern Ethiopia. <i>Environments - MDPI</i> , 2019, 6, 118.	1.5	10
140	What Are the Domestic and Regional Impacts From Ethiopia's Policy on the Export Ban of Teff?. <i>Frontiers in Sustainable Food Systems</i> , 2020, 4, .	1.8	10
141	Characterization of heat index experienced by individuals residing in urban and rural settings. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2021, 31, 641-653.	1.8	10
142	A Two-Step Integrated MLP-GTWR Method to Estimate 1 km Land Surface Temperature with Complete Spatial Coverage in Humid, Cloudy Regions. <i>Remote Sensing</i> , 2021, 13, 971.	1.8	10
143	A framework for interdisciplinary research in food systems. <i>Nature Food</i> , 2021, 2, 1-3.	6.2	10
144	Earth observations of extreme heat events: leveraging current capabilities to enhance heat research and action. <i>Environmental Research Letters</i> , 2021, 16, 111002.	2.2	10

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145	The Role of Low-Level, Terrain-Induced Jets in Rainfall Variability in Tigris&Euphrates Headwaters. <i>Journal of Hydrometeorology</i> , 2017, 18, 819-835.	0.7	9
146	Simulated Dust Aerosol Impacts on Western Sahelian Rainfall: Importance of Ocean Coupling. <i>Journal of Climate</i> , 2018, 31, 9107-9124.	1.2	9
147	A Bayesian adaptive reservoir operation framework incorporating streamflow non-stationarity. <i>Journal of Hydrology</i> , 2021, 594, 125959.	2.3	9
148	Abundance of water bodies is critical to guide mosquito larval control interventions and predict risk of mosquito-borne diseases. <i>Parasites and Vectors</i> , 2013, 6, 179.	1.0	8
149	A Grand Prediction: Communicating and Evaluating 2018 Summertime Upper Blue Nile Rainfall and Streamflow Forecasts in Preparation for Ethiopia's New Dam. <i>Frontiers in Water</i> , 2019, 1, .	1.0	8
150	Indoor heat exposure in Baltimore: does outdoor temperature matter?. <i>International Journal of Biometeorology</i> , 2021, 65, 479-488.	1.3	8
151	Flooding and emergency department visits: Effect modification by the CDC/ATSDR Social Vulnerability Index. <i>International Journal of Disaster Risk Reduction</i> , 2022, 76, 102986.	1.8	8
152	Explaining National Trends in Terrestrial Water Storage. <i>Frontiers in Environmental Science</i> , 2019, 7, .	1.5	7
153	Analysis of the Spatial Patterns of Rainfall across the Agro-Climatic Zones of Jema Watershed in the Northwestern Highlands of Ethiopia. <i>Geosciences (Switzerland)</i> , 2019, 9, 22.	1.0	7
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