

# Mark G New

## List of Publications by Year in descending order

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Version: 2024-02-01

123  
papers

23,036  
citations

44042

48  
h-index

17580

121  
g-index

146  
all docs

146  
docs citations

146  
times ranked

24675  
citing authors

#	ARTICLE	IF	CITATIONS
1	Global observed changes in daily climate extremes of temperature and precipitation. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	2,884
2	Ensemble forecasting of species distributions. <i>Trends in Ecology and Evolution</i> , 2007, 22, 42-47.	4.2	2,517
3	A high-resolution data set of surface climate over global land areas. <i>Climate Research</i> , 2002, 21, 1-25.	0.4	1,946
4	A European daily high-resolution gridded data set of surface temperature and precipitation for 1950-2006. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	1,889
5	Representing Twentieth-Century Space-Time Climate Variability. Part II: Development of 1901-96 Monthly Grids of Terrestrial Surface Climate. <i>Journal of Climate</i> , 2000, 13, 2217-2238.	1.2	1,808
6	Representing Twentieth-Century Space-Time Climate Variability. Part I: Development of a 1961-90 Mean Monthly Terrestrial Climatology. <i>Journal of Climate</i> , 1999, 12, 829-856.	1.2	1,573
7	Surface air temperature and its changes over the past 150 years. <i>Reviews of Geophysics</i> , 1999, 37, 173-199.	9.0	1,244
8	African climate change: 1900-2100. <i>Climate Research</i> , 2001, 17, 145-168.	0.4	979
9	Evidence of trends in daily climate extremes over southern and west Africa. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	499
10	Forecasting the Effects of Global Warming on Biodiversity. <i>BioScience</i> , 2007, 57, 227-236.	2.2	483
11	Precipitation measurements and trends in the twentieth century. <i>International Journal of Climatology</i> , 2001, 21, 1889-1922.	1.5	456
12	Changes in daily temperature and precipitation extremes in central and south Asia. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	374
13	The UNDP Climate Change Country Profiles. <i>Bulletin of the American Meteorological Society</i> , 2010, 91, 157-166.	1.7	292
14	Comparison of six methods for the interpolation of daily, European climate data. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	286
15	Testing E-OBS European high-resolution gridded data set of daily precipitation and surface temperature. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	258
16	A framework for complex climate change risk assessment. <i>One Earth</i> , 2021, 4, 489-501.	3.6	244
17	The influence of interpolation and station network density on the distributions and trends of climate variables in gridded daily data. <i>Climate Dynamics</i> , 2010, 35, 841-858.	1.7	233
18	Climate change impacts and adaptation in South Africa. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2014, 5, 605-620.	3.6	228

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19	Four degrees and beyond: the potential for a global temperature increase of four degrees and its implications. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 6-19.	1.6	224
20	Challenges in Quantifying Changes in the Global Water Cycle. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1097-1115.	1.7	212
21	A systematic global stocktake of evidence on human adaptation to climate change. <i>Nature Climate Change</i> , 2021, 11, 989-1000.	8.1	206
22	Issues in the interpretation of climate model ensembles to inform decisions. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007, 365, 2163-2177.	1.6	150
23	Representing uncertainty in climate change scenarios: a Monte-Carlo approach. <i>Integrated Assessment: an International Journal</i> , 2000, 1, 203-213.	0.8	143
24	Arctic climate change with a 2 °C global warming: Timing, climate patterns and vegetation change. <i>Climatic Change</i> , 2006, 79, 213-241.	1.7	138
25	Modelling climate change impacts on species'™ distributions at the European scale: implications for conservation policy. <i>Environmental Science and Policy</i> , 2006, 9, 116-128.	2.4	135
26	Observed and modelled trends in rainfall and temperature for South Africa: 1960-2010. <i>South African Journal of Science</i> , 2014, 110, 13.	0.3	134
27	The need for bottom-up assessments of climate risks and adaptation in climate-sensitive regions. <i>Nature Climate Change</i> , 2019, 9, 503-511.	8.1	130
28	Climate data for political areas. <i>Area</i> , 2002, 34, 103-112.	1.0	129
29	Climate change and loss, as if people mattered: values, places, and experiences. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2017, 8, e476.	3.6	124
30	Anthropogenic influence on the drivers of the Western Cape drought 2015-2017. <i>Environmental Research Letters</i> , 2018, 13, 124010.	2.2	123
31	Challenges in using probabilistic climate change information for impact assessments: an example from the water sector. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007, 365, 2117-2131.	1.6	121
32	Tracking sustainable development with a national barometer for South Africa using a downscaled 'œsafe and just space'™ framework. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E4399-408.	3.3	109
33	Climate change scenarios for global impacts studies. <i>Global Environmental Change</i> , 1999, 9, S3-S19.	3.6	106
34	From climate model ensembles to climate change impacts and adaptation: A case study of water resource management in the southwest of England. <i>Water Resources Research</i> , 2009, 45, .	1.7	104
35	Tropical snowline changes at the last glacial maximum: A global assessment. <i>Quaternary International</i> , 2005, 138-139, 168-201.	0.7	95
36	A review of observed and projected changes in climate for the islands in the Caribbean. <i>Atmosfera</i> , 2013, 26, 283-309.	0.3	91

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37	Water availability in +2Â°C and +4Â°C worlds. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 99-116.	1.6	85
38	Multi-agent modelling of climate outlooks and food security on a community garden scheme in Limpopo, South Africa. Philosophical Transactions of the Royal Society B: Biological Sciences, 2005, 360, 2183-2194.	1.8	82
39	Relationships between plant traits and climate in the Mediterranean region: A pollen data analysis. Journal of Vegetation Science, 2004, 15, 635-646.	1.1	80
40	The impact of ENSO on Southern African rainfall in CMIP5 ocean atmosphere coupled climate models. Climate Dynamics, 2015, 45, 2425-2442.	1.7	73
41	Interrogating "effectiveness"™ in climate change adaptation: 11 guiding principles for adaptation research and practice. Climate and Development, 2022, 14, 650-664.	2.2	69
42	Two Approaches to Quantifying Uncertainty in Global Temperature Changes. Journal of Climate, 2006, 19, 4785-4796.	1.2	63
43	New views on "old" carbon in the Amazon River: Insight from the source of organic carbon eroded from the Peruvian Andes. Geochemistry, Geophysics, Geosystems, 2013, 14, 1644-1659.	1.0	63
44	Spatial variability in correlation decay distance and influence on angular distance weighting interpolation of daily precipitation over Europe. International Journal of Climatology, 2009, 29, 1872-1880.	1.5	62
45	Groundwater pollution on the Zambian Copperbelt: deciphering the source and the risk. Science of the Total Environment, 2004, 327, 17-30.	3.9	60
46	Storm-triggered landslides in the Peruvian Andes and implications for topography, carbon cycles, and biodiversity. Earth Surface Dynamics, 2016, 4, 47-70.	1.0	60
47	Large-Scale Transdisciplinary Collaboration for Adaptation Research: Challenges and Insights. Global Challenges, 2019, 3, 1700132.	1.8	55
48	Interannual to interdecadal variability of winter and summer southern African rainfall, and their teleconnections. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6215-6239.	1.2	54
49	Dependence of Large-Scale Precipitation Climatologies on Temporal and Spatial Sampling. Journal of Climate, 1997, 10, 1099-1113.	1.2	53
50	Spatial inequality in water access and water use in South Africa. Water Policy, 2018, 20, 37-52.	0.7	52
51	Temperature and precipitation extremes under current, 1.5‰Â°C and 2.0‰Â°C global warming above pre-industrial levels over Botswana, and implications for climate change vulnerability. Environmental Research Letters, 2018, 13, 065016.	2.2	52
52	MM5 simulations of interannual change and the diurnal cycle of southern African regional climate. Theoretical and Applied Climatology, 2006, 86, 63-80.	1.3	49
53	The hydrological regime of a forested tropical Andean catchment. Hydrology and Earth System Sciences, 2014, 18, 5377-5397.	1.9	48
54	Quantification of UV-B flux through time using UV-B-absorbing compounds contained in fossil Pinus sporopollenin. New Phytologist, 2011, 192, 553-560.	3.5	46

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55	Sediment chemistry: a history of mine contaminant remediation and an assessment of processes and pollution potential. <i>Journal of Geochemical Exploration</i> , 2004, 82, 35-57.	1.5	45
56	The role of a dambo in the hydrology of a catchment and the river network downstream. <i>Hydrology and Earth System Sciences</i> , 2003, 7, 339-357.	1.9	43
57	Testing the impact of climate variability on European plant diversity: 3200 years of water-energy dynamics and its long-term influence on plant taxonomic richness. <i>Ecology Letters</i> , 2007, 10, 673-679.	3.0	43
58	Temperature and rainfall extremes change under current and future global warming levels across Indian climate zones. <i>Weather and Climate Extremes</i> , 2021, 31, 100291.	1.6	42
59	Climate change and COVID-19: reinforcing Indigenous food systems. <i>Lancet Planetary Health</i> , The, 2020, 4, e381-e382.	5.1	41
60	Making SDGs Work for Climate Change Hotspots. <i>Environment</i> , 2016, 58, 24-33.	0.8	38
61	Changing access to ice, land and water in Arctic communities. <i>Nature Climate Change</i> , 2019, 9, 335-339.	8.1	38
62	Synchronous fire activity in the tropical high Andes: an indication of regional climate forcing. <i>Global Change Biology</i> , 2014, 20, 1929-1942.	4.2	37
63	Global warming and African climate change: a reassessment. , 2005, , 29-40.		35
64	21st Century Drought Scenarios for the UK. <i>Water Resources Management</i> , 2013, 27, 1039-1061.	1.9	34
65	Diffuse radiation and cloud fraction relationships in two contrasting Amazonian rainforest sites. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 361-368.	1.9	32
66	Spatial variability in sustainable development trajectories in South Africa: provincial level safe and just operating spaces. <i>Sustainability Science</i> , 2017, 12, 829-848.	2.5	32
67	Managing hydroclimatic risks in federal rivers: a diagnostic assessment. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120415.	1.6	30
68	Erosion of organic carbon from the Andes and its effects on ecosystem carbon dioxide balance. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 449-469.	1.3	28
69	Using Large Climate Ensembles to Plan for the Hydrological Impact of Climate Change in the Freshwater Environment. <i>Water Resources Management</i> , 2013, 27, 1063-1084.	1.9	26
70	A reflection on collaborative adaptation research in Africa and Asia. <i>Regional Environmental Change</i> , 2017, 17, 1553-1561.	1.4	26
71	Spatial patterns and recent trends in cloud fraction and cloud-related diffuse radiation in Amazonia. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	24
72	Floristic and functional affiliations of woody plants with climate in western Amazonia. <i>Journal of Biogeography</i> , 2008, 35, 939-950.	1.4	22

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73	Spatial coherence of meteorological droughts in the <sc>UK</sc> since 1914. <i>Area</i> , 2012, 44, 400-410.	1.0	22
74	Priority focus areas for a sub-national response to climate change and health: A South African provincial case study. <i>Environment International</i> , 2019, 122, 31-51.	4.8	22
75	What Drives Farmers to Make Top-Down or Bottom-Up Adaptation to Climate Change and Fluctuations? A Comparative Study on 3 Cases of Apple Farming in Japan and South Africa. <i>PLoS ONE</i> , 2015, 10, e0120563.	1.1	20
76	Evaluation of the added value of a high-resolution regional climate model simulation of the South Asian summer monsoon climatology. <i>International Journal of Climatology</i> , 2017, 37, 3630-3643.	1.5	20
77	Nature-based solutions in mountain catchments reduce impact of anthropogenic climate change on drought streamflow. <i>Communications Earth &amp; Environment</i> , 2022, 3, .	2.6	20
78	Four degrees and beyond: the potential for a global temperature increase of four degrees and its implications. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 4-5.	1.6	19
79	Impacts of 1.5 °C and 2 °C global warming on regional rainfall and temperature change across India. <i>Environmental Research Communications</i> , 2019, 1, 125002.	0.9	19
80	Southern African summer-rainfall variability, and its teleconnections, on interannual to interdecadal timescales in CMIP5 models. <i>Climate Dynamics</i> , 2019, 53, 3505-3527.	1.7	19
81	Shifting dynamics of climate-functional groups in old-growth Amazonian forests. <i>Plant Ecology and Diversity</i> , 2014, 7, 267-279.	1.0	18
82	Climate complexity in the Central Andes: A study case on empirically-based local variations in the Dry Puna. <i>Journal of Arid Environments</i> , 2016, 128, 40-49.	1.2	18
83	Preparing interdisciplinary leadership for a sustainable future. <i>Sustainability Science</i> , 2020, 15, 1723-1733.	2.5	18
84	Potential impacts of stratospheric aerosol injection on drought risk managements over major river basins in Africa. <i>Climatic Change</i> , 2021, 169, 1.	1.7	18
85	A new world climatic mapping program to assist species selection. <i>Forest Ecology and Management</i> , 2002, 163, 111-117.	1.4	17
86	Forging future organizational leaders for sustainability science. <i>Nature Sustainability</i> , 2019, 2, 647-649.	11.5	17
87	Mapping invasive alien trees in water towers: A combined approach using satellite data fusion, drone technology and expert engagement. <i>Remote Sensing Applications: Society and Environment</i> , 2021, 21, 100448.	0.8	16
88	Cloud frequency climatology at the Andes/Amazon transition: 1. Seasonal and diurnal cycles. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	15
89	Comparing available rainfall gridded datasets for West Africa and the impact on rainfall-runoff modelling results, the case of Burkina-Faso. <i>Water S A</i> , 2018, 34, 529.	0.2	15
90	Cloud frequency climatology at the Andes/Amazon transition: 2. Trends and variability. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	14

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91	Sensitivity of systematic biases in South Asian summer monsoon simulations to regional climate model domain size and implications for downscaled regional process studies. <i>Climate Dynamics</i> , 2015, 45, 213-231.	1.7	14
92	The role of farmers and organizational networks in climate information communication: the case of Ghana. <i>International Journal of Climate Change Strategies and Management</i> , 2021, 13, 19-34.	1.5	14
93	Benefits of water-related ecological infrastructure investments to support sustainable land-use: a review of evidence from critically water-stressed catchments in South Africa. <i>Royal Society Open Science</i> , 2021, 8, 201402.	1.1	12
94	Managing city-scale slow-onset disasters: Learning from Cape Town's 2015â€“2018 drought disaster planning. <i>International Journal of Disaster Risk Reduction</i> , 2021, 63, 102459.	1.8	12
95	A SOM-based analysis of the drivers of the 2015â€“2017 Western Cape drought in South Africa. <i>International Journal of Climatology</i> , 2021, 41, E1518.	1.5	11
96	Modelling individual and collective species responses to climate change within Small Island States. <i>Biological Conservation</i> , 2013, 167, 283-291.	1.9	10
97	Added value of a high-resolution regional climate model in simulation of intraseasonal variability of the South Asian summer monsoon. <i>International Journal of Climatology</i> , 2017, 37, 1100-1116.	1.5	10
98	Vulnerability of crop yields to variations in growing season precipitation in Uganda. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	10
99	Contributions of decadal climate information in agriculture and food systems in east and southern Africa. <i>Climatic Change</i> , 2017, 143, 115-128.	1.7	9
100	The Effect of Inter-Organisational Collaboration Networks on Climate Knowledge Flows and Communication to Pastoralists in Kenya. <i>Sustainability</i> , 2018, 10, 4180.	1.6	9
101	Water for sustainable development in the Berg Water Management Area, South Africa. <i>South African Journal of Science</i> , 2018, 114, 10.	0.3	9
102	Stratospheric Aerosol Geoengineering could lower future risk of "Day Zero" level droughts in Cape Town. <i>Environmental Research Letters</i> , 2020, 15, 124007.	2.2	8
103	On the reconstruction of seasonal oceanic precipitation in the presatellite era. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	7
104	Perceptions of ecosystem services provision performance in the face of climate change among communities in Bobirwa sub-district, Botswana. <i>International Journal of Climate Change Strategies and Management</i> , 2019, 11, 265-288.	1.5	7
105	The hydrological impacts of restoration: A modelling study of alien tree clearing in four mountain catchments in South Africa. <i>Journal of Hydrology</i> , 2022, 610, 127771.	2.3	7
106	Does a rainfall-based drought index simulate hydrological droughts?. <i>International Journal of Climatology</i> , 2013, 34, n/a-n/a.	1.5	6
107	Assessing protected area effectiveness within the Caribbean under changing climate conditions: A case study of the small island, Trinidad. <i>Land Use Policy</i> , 2019, 81, 185-193.	2.5	6
108	Relationships between plant traits and climate in the Mediterranean region: A pollen data analysis. <i>Journal of Vegetation Science</i> , 2004, 15, 635.	1.1	6

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109	The impact of roads on sub-Saharan African ecosystems: a systematic review. Environmental Research Letters, 2021, 16, 113001.	2.2	6
110	Local Effects of Global Changes in the Himalayas: Manang, Nepal. Mountain Research and Development, 2009, 29, 291.	0.4	5
111	Collaboration Relations in Climate Information Production and Dissemination to Subsistence Farmers in Namibia. Environmental Management, 2021, 67, 133-145.	1.2	5
112	Transition from subsistence grazing to nature-based recreation: A nuanced view of land abandonment in a mountain social-ecological system, southwestern Cape, South Africa. Land Use Policy, 2021, 105, 105429.	2.5	5
113	Differentiating dilution and retention processes in mine effluent remediation within a natural wetland on the Zambian Copperbelt. Applied Geochemistry, 2005, 20, 1241-1257.	1.4	4
114	Evaluating the Effectiveness and Efficiency of Climate Information Communication in the African Agricultural Sector: A Systematic Analysis of Climate Services. Agriculture (Switzerland), 2022, 12, 160.	1.4	4
115	Anticipatory adaptation and the role of decadal climate information in rural African livelihood systems. International Journal of Climate Change Strategies and Management, 2016, 8, 236-252.	1.5	3
116	Understanding the current state of collaboration in the production and dissemination of adaptation knowledge in Namibia. Environment, Development and Sustainability, 2020, 22, 1017-1037.	2.7	3
117	Can Sentinel-2 be used to detect invasive alien trees and shrubs in Savanna and Grassland Biomes?. Remote Sensing Applications: Society and Environment, 2021, 23, 100600.	0.8	3
118	MAKING CITIES WATER-WISE AND CLIMATE-RESILIENT – LESSONS AND EXPERIENCE FROM THE CAPE TOWN DROUGHT. Landscape Architecture Frontiers, 2019, 7, 94.	0.4	3
119	Competition for Land, Water and Energy (Nexus) in Food Production. , 2019, , 187-195.		2
120	Precipitation measurements and trends in the twentieth century. International Journal of Climatology, 2001, 21, 1889.	1.5	2
121	Climate and Invasive Species: The Limits to Climate Information. , 2009, , 30-41.		1
122	Water Scarcity on a Blue Planet. , 2014, , 121-141.		0
123	Scaling Methods in Regional Integrated Assessments: From Points Upward and from Global Models Downwards. Integrated Assessment: an International Journal, 2002, 3, 167-187.	0.8	0