Anthony S Kiem

List of Publications by Year
in descending order

112 papers	5,193 citations	76196 40 h-index	98622 67 g-index
135 all docs	135 docs citations	135 times ranked	4980 citing authors

#	Article	IF	Citations
1	Multi-decadal variability of flood risk. Geophysical Research Letters, 2003, 30, .	1.5	259
2	Nature and causes of protracted droughts in southeast Australia: Comparison between the Federation, WWII, and Big Dry droughts. Geophysical Research Letters, 2009, 36, .	1.5	252
3	Farmers×³ perception of drought impacts, local adaptation and administrative mitigation measures in Maharashtra State, India. International Journal of Disaster Risk Reduction, 2014, 10, 250-269.	1.8	229
4	Multidecadal variability of rainfall and streamflow: Eastern Australia. Water Resources Research, 2004, 40, .	1.7	195
5	Natural hazards in Australia: droughts. Climatic Change, 2016, 139, 37-54.	1.7	174
6	Estimating potential evapotranspiration using Shuttleworthâ€"Wallace model and NOAA-AVHRR NDVI data to feed a distributed hydrological model over the Mekong River basin. Journal of Hydrology, 2006, 327, 151-173.	2.3	172
7	From barriers to limits to climate change adaptation: path dependency and the speed of change. Ecology and Society, 2015, 20, .	1.0	163
8	Climate variability over the last 35,000 years recorded in marine and terrestrial archives in the Australian region: an OZ-INTIMATE compilation. Quaternary Science Reviews, 2013, 74, 21-34.	1.4	162
9	Multi-decadal variability of drought risk, eastern Australia. Hydrological Processes, 2004, 18, 2039-2050.	1.1	150
10	Drought and the future of rural communities: Opportunities and challenges for climate change adaptation in regional Victoria, Australia. Global Environmental Change, 2013, 23, 1307-1316.	3.6	115
11	Interdecadal Pacific variability and eastern Australian megadroughts over the last millennium. Geophysical Research Letters, 2015, 42, 129-137.	1.5	109
12	On the identification of ENSO-induced rainfall and runoff variability: a comparison of methods and indices. Hydrological Sciences Journal, 2001, 46, 715-727.	1.2	103
13	On the uncertainties associated with using gridded rainfall data as a proxy for observed. Hydrology and Earth System Sciences, 2012, 16, 1481-1499.	1.9	101
14	The Southern Annular Mode: a comparison of indices. Hydrology and Earth System Sciences, 2012, 16, 967-982.	1.9	98
15	Natural hazards in Australia: floods. Climatic Change, 2016, 139, 21-35.	1.7	89
16	Understanding hydroclimate processes in the Murray-Darling Basin for natural resources management. Hydrology and Earth System Sciences, 2012, 16, 2049-2068.	1.9	87
17	Local perceptions of and adaptation to climate variability and change: the case of shrimp farming communities in the coastal region of Bangladesh. Climatic Change, 2015, 133, 253-266.	1.7	83
18	Drought and water policy in Australia: Challenges for the future illustrated by the issues associated with water trading and climate change adaptation in the Murrayâ€"Darling Basin. Global Environmental Change, 2013, 23, 1615-1626.	3.6	80

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19	On the relationship between large-scale climate modes and regional synoptic patterns that drive Victorian rainfall. Hydrology and Earth System Sciences, 2009, 13, 467-479.	1.9	76
20	Towards understanding hydroclimatic change in Victoria, Australia â€" preliminary insights into the &quot;Big Dry&quot;. Hydrology and Earth System Sciences, 2010, 14, 433-445.	1.9	76
21	Future hydroclimatology of the Mekong River basin simulated using the highâ€resolution Japan Meteorological Agency (JMA) AGCM. Hydrological Processes, 2008, 22, 1382-1394.	1.1	74
22	Robust optimization to secure urban bulk water supply against extreme drought and uncertain climate change. Environmental Modelling and Software, 2015, 69, 437-451.	1.9	74
23	A linked surface water-groundwater modelling approach to more realistically simulate rainfall-runoff non-stationarity in semi-arid regions. Journal of Hydrology, 2019, 575, 273-291.	2.3	74
24	Mechanisms influencing non-stationarity in rainfall-runoff relationships in southeast Australia. Journal of Hydrology, 2019, 571, 749-764.	2.3	74
25	Droughtâ€related stress among farmers: findings from the Australian Rural Mental Health Study. Medical Journal of Australia, 2018, 209, 159-165.	0.8	73
26	Causes of the Widespread 2019â€"2020 Australian Bushfire Season. Earth's Future, 2020, 8, e2020EF001671.	2.4	73
27	Natural hazards in Australia: sea level and coastal extremes. Climatic Change, 2016, 139, 69-83.	1.7	70
28	Quantifying Drought Risk in a Nonstationary Climate. Journal of Hydrometeorology, 2010, 11, 1019-1031.	0.7	66
29	How and to what extent does precipitation on multi-temporal scales and soil moisture at different depths determine carbon flux responses in a water-limited grassland ecosystem?. Science of the Total Environment, 2018, 635, 1255-1266.	3.9	65
30	Multi-decadal variability of forest fire risk - eastern Australia. International Journal of Wildland Fire, 2004, 13, 165.	1.0	63
31	Tropical cyclone perceptions, impacts and adaptation in the Southwest Pacific: an urban perspective from Fiji, Vanuatu and Tonga. Natural Hazards and Earth System Sciences, 2016, 16, 1091-1105.	1.5	60
32	Steps toward â€œusefulâ€hydroclimatic scenarios for water resource management in the Murrayâ€Darling Basin. Water Resources Research, 2011, 47, .	1.7	59
33	Climatic drivers of Victorian streamflow: Is ENSO the dominant influence?. Australian Journal of Water Resources, 2009, 13, 17-29.	1.6	51
34	Estimation of Soil Erosion and Sediment Yield During Individual Rainstorms at Catchment Scale. Water Resources Management, 2009, 23, 1447-1465.	1.9	49
35	Forecasting climate change impacts and evaluation of adaptation options for maize cropping in the hilly terrain of Himalayas: Sikkim, India. Theoretical and Applied Climatology, 2015, 121, 649-667.	1.3	48
36	Concerns about climate change among rural residents in Australia. Journal of Rural Studies, 2020, 75, 98-109.	2.1	48

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37	Investigation of the Mekong River basin hydrology for 1980–2000 using the YHyM. Hydrological Processes, 2008, 22, 1246-1256.	1.1	47
38	Relating BTOPMC model parameters to physical features of MOPEX basins. Journal of Hydrology, 2006, 320, 84-102.	2.3	46
39	Drought Impacts and Adaptation Strategies for Agriculture and Rural Livelihood in the Maharashtra State of India. Open Agriculture Journal, 2014, 8, 41-47.	0.3	46
40	How did the 2012 drought affect rural livelihoods in vulnerable areas? Empirical evidence from India. International Journal of Disaster Risk Reduction, 2015, 13, 454-469.	1.8	44
41	Influence of <scp>ENSO</scp>, <scp>ENSO</scp> Modoki, and the <scp>IPO</scp> on tropical cyclogenesis: a spatial analysis of the southwest Pacific region. International Journal of Climatology, 2017, 37, 1118-1137.	1.5	43
42	Multi-GCMs approach for assessing climate change impact on water resources in Thailand. Modeling Earth Systems and Environment, 2018, 4, 825-839.	1.9	43
43	Performance Evaluation of AquaCrop and DSSAT-CERES for Maize Under Different Irrigation and Manure Application Rates in the Himalayan Region of India. Agricultural Research, 2019, 8, 207-217.	0.9	37
44	Land use impact on the water quality of large tropical river: Mun River Basin, Thailand. Environmental Monitoring and Assessment, 2019, 191, 614.	1.3	36
45	The importance of understanding drivers of hydroclimatic variability for robust flood risk planning in the coastal zone. Australian Journal of Water Resources, 2013, 17, 126-134.	1.6	35
46	Links between the Big Dry in Australia and hemispheric multi-decadal climate variability – implications for water resource management. Hydrology and Earth System Sciences, 2014, 18, 2235-2256.	1.9	34
47	An ice core derived 1013-year catchment-scale annual rainfall reconstruction in subtropical eastern Australia. Hydrology and Earth System Sciences, 2016, 20, 1703-1717.	1.9	34
48	Multi-Model Approach to Assess the Dynamics of Hydrologic Components in a Tropical Ecosystem. Water Resources Management, 2020, 34, 327-341.	1.9	34
49	Evaluation of rainfall–runoff model performance under non-stationary hydroclimatic conditions. Hydrological Sciences Journal, 2020, 65, 1667-1684.	1.2	34
50	Disconnect between science and end-users as a barrier to climate change adaptation. Climate Research, 2013, 58, 29-41.	0.4	34
51	Calibrating a hydrological model in a regional river of the Qinghai–Tibet plateau using river water width determined from high spatial resolution satellite images. Remote Sensing of Environment, 2018, 214, 100-114.	4.6	33
52	2020s scenario analysis of nutrient load in the Mekong River Basin using a distributed hydrological model. Science of the Total Environment, 2009, 407, 5356-5366.	3.9	31
53	A paleoclimate rainfall reconstruction in the Murray–Darling Basin (MDB), Australia: 2. Assessing hydroclimatic risk using paleoclimate records of wet and dry epochs. Water Resources Research, 2015, 51, 8380-8396.	1.7	30
54	Spatial and temporal variability analysis of green and blue evapotranspiration of wheat in the Egyptian Nile Delta from 1997 to 2017. Journal of Hydrology, 2021, 594, 125662.	2.3	30

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55	A New Approach to Stochastically Generating Six-Monthly Rainfall Sequences Based on Empirical Mode Decomposition. Journal of Hydrometeorology, 2008, 9, 1377-1389.	0.7	28
56	Trends in major and minor meteorological variables and their influence on reference evapotranspiration for mid Himalayan region at east Sikkim, India. Journal of Mountain Science, 2016, 13, 302-315.	0.8	28
57	Introduction to the special issue: historical and projected climatic changes to Australian natural hazards. Climatic Change, 2016, 139, 1-19.	1.7	27
58	Variability of soil physicochemical properties at different agroecological zones of Himalayan region: Sikkim, India. Environment, Development and Sustainability, 2019, 21, 2321-2339.	2.7	26
59	Stratification response of soil water content during rainfall events under different rainfall patterns. Hydrological Processes, 2018, 32, 3128-3139.	1.1	25
60	Evaluation of climate change impacts and adaptation strategies for maize cultivation in the Himalayan foothills of India. Journal of Water and Climate Change, 2015, 6, 596-614.	1.2	24
61	Comparison of RUSLE and MMF Soil Loss Models and Evaluation of Catchment Scale Best Management Practices for a Mountainous Watershed in India. Sustainability, 2021, 13, 232.	1.6	24
62	An intercomparison of tropical cyclone best-track products for the southwest Pacific. Natural Hazards and Earth System Sciences, 2016, 16, 1431-1447.	1.5	24
63	Assessment of the impacts of climate change and brackish irrigation water on rice productivity and evaluation of adaptation measures in Ca Mau province, Vietnam. Theoretical and Applied Climatology, 2016, 125, 641-656.	1.3	23
64	A hydrological model for interprovincial water resource planning and management: A case study in the Long Xuyen Quadrangle, Mekong Delta, Vietnam. Journal of Hydrology, 2017, 547, 1-9.	2.3	23
65	Comparing the performance of drought indicators in Australia from 1900 to 2018. International Journal of Climatology, 2021, 41, E912.	1.5	22
66	Bridging the gap between end user needs and science capability: decision making under uncertainty. Climate Research, 2014, 61, 57-74.	0.4	22
67	Regime shifts in annual maximum rainfall across Australia â€" implications for intensityâ€"frequencyâ€"duration (IFD) relationships. Hydrology and Earth System Sciences, 2015, 19, 4735-4746.	1.9	21
68	A new island-scale tropical cyclone outlook for southwest Pacific nations and territories. Scientific Reports, 2020, 10, 11286.	1.6	21
69	A paleoclimate rainfall reconstruction in the <scp>M</scp>urrayâ€<scp>D</scp>arling <scp>B</scp>asin (<scp>MDB</scp>), <scp>A</scp>ustralia: 1. Evaluation of different paleoclimate archives, rainfall networks, and reconstruction techniques. Water Resources Research, 2015, 51, 8362-8379.	1.7	20
70	Links between Large-Scale Modes of Climate Variability and Synoptic Weather Patterns in the Southern Indian Ocean. Journal of Climate, 2021, 34, 883-899.	1.2	18
71	Reconstructing pre-instrumental streamflow in Eastern Australia using a water balance approach. Journal of Hydrology, 2018, 558, 632-646.	2.3	17
72	Fully integrated numerical simulation of surface water-groundwater interactions using SWAT-MODFLOW with an improved calibration tool. Journal of Hydrology: Regional Studies, 2021, 35, 100822.	1.0	17

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73	Large‐scale ocean‐atmospheric processes and seasonal rainfall variability in South Australia: potential for improving seasonal hydroclimatic forecasts. International Journal of Climatology, 2017, 37, 861-877.	1.5	15
74	Development and evaluation of a stochastic daily rainfall model with long-term variability. Hydrology and Earth System Sciences, 2017, 21, 6541-6558.	1.9	15
75	Historical and future drought impacts in the Pacific islands and atolls. Climatic Change, 2021, 166, 1.	1.7	15
76	Using insights from water isotopes to improve simulation of surface water-groundwater interactions. Science of the Total Environment, 2021, 798, 149253.	3.9	15
77	Broadening the Spatial Applicability of Paleoclimate Information—A Case Study for the Murray–Darling Basin, Australia. Journal of Climate, 2014, 27, 2477-2495.	1.2	14
78	Large floods in South East Queensland, Australia: Is it valid to assume they occur randomly?. Australian Journal of Water Resources, 2018, 22, 4-14.	1.6	14
79	Assessing irrigation mitigating drought impacts on crop yields with an integrated modeling framework. Journal of Hydrology, 2022, 609, 127760.	2.3	14
80	Synchronicity of historical dry spells in the Southern Hemisphere. Hydrology and Earth System Sciences, 2014, 18, 2257-2264.	1.9	13
81	Stochastic Generation of Future Hydroclimate Using Temperature as a Climate Change Covariate. Water Resources Research, 2021, 57, 2020WR027331.	1.7	13
82	Learning from the past – Using palaeoclimate data to better understand and manage drought in South East Queensland (SEQ), Australia. Journal of Hydrology: Regional Studies, 2020, 29, 100686.	1.0	12
83	Water resource management in a variable and changing climate: hypothetical case study to explore decision making under uncertainty. Journal of Water and Climate Change, 2016, 7, 263-279.	1.2	11
84	Comparing instrumental, palaeoclimate, and projected rainfall data: Implications for water resources management and hydrological modelling. Journal of Hydrology: Regional Studies, 2020, 31, 100728.	1.0	10
85	Drought, Wellbeing and Adaptive Capacity: Why Do Some People Stay Well?. International Journal of Environmental Research and Public Health, 2020, 17, 7214.	1.2	10
86	New Insights Into the Relationship Between Drought and Mental Health Emerging From the Australian Rural Mental Health Study. Frontiers in Psychiatry, 2021, 12, 719786.	1.3	10
87	Pacific decadal variability over the last 2000 years and implications for climatic risk. Communications Earth & Environment, 2022, 3, .	2.6	10
88	Large‐scale ocean‐atmospheric processes and seasonal rainfall variability in South Australia: accounting for non‐linearity and establishing the hierarchy of influence. International Journal of Climatology, 2017, 37, 1180-1198.	1.5	7
89	Links between East Coast Lows and the spatial and temporal variability of rainfall along the eastern seaboard of Australia. Journal of Southern Hemisphere Earth Systems Science, 2016, 66, 162-176.	0.7	7
90	Statistical testing of dynamically downscaled rainfall data for the Upper Hunter region, New South Wales, Australia. Journal of Southern Hemisphere Earth Systems Science, 2016, 66, 203-227.	0.7	7

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91	Temporal and spatial variability of the cropping limit in South Australia. Climate Research, 2014, 60, 25-34.	0.4	7
92	An ensemble data assimilation approach to improve farm-scale actual evapotranspiration estimation. Agricultural and Forest Meteorology, 2022, 321, 108982.	1.9	7
93	Using Indicators of ENSO, IOD, and SAM to Improve Lead Time and Accuracy of Tropical Cyclone Outlooks for Australia. Journal of Applied Meteorology and Climatology, 2020, 59, 1901-1917.	0.6	6
94	East Coast Lows and the Pasha Bulker storm - lessons learned nine years on. Journal of Southern Hemisphere Earth Systems Science, 2016, 66, 152.	0.7	6
95	Developing Hazard Lines in Response to Coastal Flooding and Sea Level Change. Urban Policy and Research, 2014, 32, 341-360.	0.8	5
96	Case study on the use of dynamically downscaled climate model data for assessing water security in the Lower Hunter region of the eastern seaboard of Australia. Australian Meteorological Magazine, 2016, 66, 177-202.	0.4	5
97	Comparison of published palaeoclimate records suitable for reconstructing annual to sub-decadal hydroclimatic variability in eastern Australia: implications for water resource management and planning. Hydrology and Earth System Sciences, 2020, 24, 5699-5712.	1.9	5
98	Using paleoclimate reconstructions to analyse hydrological epochs associated with Pacific decadal variability. Hydrology and Earth System Sciences, 2018, 22, 6399-6414.	1.9	4
99	Reconciling Unevenly Sampled Paleoclimate Proxies: a Gaussian Kernel Correlation Multiproxy Reconstruction. Journal of Environmental Informatics, 0, , .	6.0	4
100	Case study on the use of dynamically downscaled climate model data for assessing water security in the Lower Hunter region of the eastern seaboard of Australia. Journal of Southern Hemisphere Earth Systems Science, 2016, 66, 177.	0.7	4
101	Comment on 'Drought variability in the eastern Australia and New Zealand summer drought atlas (ANZDA, CE 1500–2012) modulated by the Interdecadal Pacific Oscillation'. Environmental Research Letters, 2017, 12, 068001.	2.2	3
102	East Coast Lows and the Pasha Bulker storm - lessons learned nine years on. Journal of Southern Hemisphere Earth Systems Science, 2016, 66, 152-161.	0.7	3
103	Case study on the use of dynamically downscaled climate model data for assessing water security in the Lower Hunter region of the eastern seaboard of Australia. Journal of Southern Hemisphere Earth Systems Science, 2016, 66, 177-202.	0.7	2
104	Integrated Simulation of Surfacewater-Groundwater (SW-GW) Interactions Using SWAT-MODFLOW (Case study: Shiraz Basin, Iran). , 2022, , 113-131.		2
105	Response to Robert French's discussion on "Large floods in South East Queensland: is it valid to assume they occur randomly". Australian Journal of Water Resources, 2019, 23, 150-152.	1.6	1
106	Australian rainfall variability—Why is the eastern seaboard of Australia different to the rest of Australia and also internally inhomogeneous. International Journal of Climatology, 2021, 41, 5051-5071.	1.5	1
107	Physical and non-physical factors associated with water consumption at the household level in a region using multiple water sources. Journal of Hydrology: Regional Studies, 2021, 37, 100928.	1.0	1
108	Statistical testing of dynamically downscaled rainfall data for the Upper Hunter region, New South Wales, Australia. Journal of Southern Hemisphere Earth Systems Science, 2016, 66, 203.	0.7	1

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109	Projected change in meteorological drought characteristics using regional climate model data for the Hunter region of Australia. Climate Research, 2020, 80, 85-104.	0.4	1
110	Wildfires in the Arctic and tropical biomes: what is the relative role of climate?. Natural Hazards, 0, , .	1.6	1
111	How effectively do drought indices capture health outcomes? An investigation from rural Australia. Weather, Climate, and Society, 2021, , .	0.5	0
112	Climate Variability and Change. , 2014, , 31-68.		0