Anthony S Kiem

List of Publications by Year
in descending order

112	5,193	76196	98622
papers	citations	40 h-index	67 g-index

135	135	135	4980
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Integrated Simulation of Surfacewater-Groundwater (SW-GW) Interactions Using SWAT-MODFLOW (Case study: Shiraz Basin, Iran). , 2022, , 113-131.		2
2	Pacific decadal variability over the last 2000 years and implications for climatic risk. Communications Earth & Environment, 2022, 3, .	2.6	10
3	Assessing irrigation mitigating drought impacts on crop yields with an integrated modeling framework. Journal of Hydrology, 2022, 609, 127760.	2.3	14
4	An ensemble data assimilation approach to improve farm-scale actual evapotranspiration estimation. Agricultural and Forest Meteorology, 2022, 321, 108982.	1.9	7
5	Comparing the performance of drought indicators in Australia from 1900 to 2018. International Journal of Climatology, 2021, 41, E912.	1.5	22
6	Stochastic Generation of Future Hydroclimate Using Temperature as a Climate Change Covariate. Water Resources Research, 2021, 57, 2020WR027331.	1.7	13
7	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
8	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
9	Australian rainfall variabilityâ€"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
10	Historical and future drought impacts in the Pacific islands and atolls. Climatic Change, 2021, 166, 1.	1.7	15
11	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
12	How effectively do drought indices capture health outcomes? An investigation from rural Australia. Weather, Climate, and Society, 2021, , .	0.5	0
13	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
14	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
15	Using insights from water isotopes to improve simulation of surface water-groundwater interactions. Science of the Total Environment, 2021, 798, 149253.	3.9	15
16	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
17	Multi-Model Approach to Assess the Dynamics of Hydrologic Components in a Tropical Ecosystem. Water Resources Management, 2020, 34, 327-341.	1.9	34
18	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

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19	Causes of the Widespread 2019â€“2020 Australian Bushfire Season. Earth's Future, 2020, 8, e2020EF001671.	2.4	73
20	A new island-scale tropical cyclone outlook for southwest Pacific nations and territories. Scientific Reports, 2020, 10, 11286.	1.6	21
21	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
22	Learning from the past â€“ 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
23	Concerns about climate change among rural residents in Australia. Journal of Rural Studies, 2020, 75, 98-109.	2.1	48
24	Evaluation of rainfallâ€“runoff model performance under non-stationary hydroclimatic conditions. Hydrological Sciences Journal, 2020, 65, 1667-1684.	1.2	34
25	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
26	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
27	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
28	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
29	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
30	Mechanisms influencing non-stationarity in rainfall-runoff relationships in southeast Australia. Journal of Hydrology, 2019, 571, 749-764.	2.3	74
31	Response to Robert Frenchâ€™s discussion on â€œLarge floods in South East Queensland: is it valid to assume they occur randomlyâ€• Australian Journal of Water Resources, 2019, 23, 150-152.	1.6	1
32	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
33	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
34	Reconstructing pre-instrumental streamflow in Eastern Australia using a water balance approach. Journal of Hydrology, 2018, 558, 632-646.	2.3	17
35	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
36	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

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37	Using paleoclimate reconstructions to analyse hydrological epochs associated with Pacific decadal variability. Hydrology and Earth System Sciences, 2018, 22, 6399-6414.	1.9	4
38	Stratification response of soil water content during rainfall events under different rainfall patterns. Hydrological Processes, 2018, 32, 3128-3139.	1.1	25
39	Calibrating a hydrological model in a regional river of the Qinghaiâ€“Tibet plateau using river water width determined from high spatial resolution satellite images. Remote Sensing of Environment, 2018, 214, 100-114.	4.6	33
40	Droughtâ€related stress among farmers: findings from the Australian Rural Mental Health Study. Medical Journal of Australia, 2018, 209, 159-165.	0.8	73
41	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
42	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
43	Largeâ€scale oceanâ€atmospheric processes and seasonal rainfall variability in South Australia: accounting for nonâ€linearity and establishing the hierarchy of influence. International Journal of Climatology, 2017, 37, 1180-1198.	1.5	7
44	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
45	Largeâ€scale oceanâ€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
46	Comment on â€˜Drought variability in the eastern Australia and New Zealand summer drought atlas (ANZDA, CE 1500â€“2012) modulated by the Interdecadal Pacific Oscillationâ€™. Environmental Research Letters, 2017, 12, 068001.	2.2	3
47	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
48	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
49	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
50	Natural hazards in Australia: droughts. Climatic Change, 2016, 139, 37-54.	1.7	174
51	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
52	Introduction to the special issue: historical and projected climatic changes to Australian natural hazards. Climatic Change, 2016, 139, 1-19.	1.7	27
53	Natural hazards in Australia: floods. Climatic Change, 2016, 139, 21-35.	1.7	89
54	Natural hazards in Australia: sea level and coastal extremes. Climatic Change, 2016, 139, 69-83.	1.7	70

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55	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
56	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
57	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
58	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
59	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
60	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
61	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
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	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
64	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
65	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
66	A paleoclimate rainfall reconstruction in the Murrayâ€Ðarling 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
67	Interdecadal Pacific variability and eastern Australian megadroughts over the last millennium. Geophysical Research Letters, 2015, 42, 129-137.	1.5	109
68	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
69	From barriers to limits to climate change adaptation: path dependency and the speed of change. Ecology and Society, 2015, 20, .	1.0	163
70	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
71	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
72	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

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73	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
74	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
75	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
76	Synchronicity of historical dry spells in the Southern Hemisphere. Hydrology and Earth System Sciences, 2014, 18, 2257-2264.	1.9	13
77	Links between the Big Dry in Australia and hemispheric multi-decadal climate variability â€“ implications for water resource management. Hydrology and Earth System Sciences, 2014, 18, 2235-2256.	1.9	34
78	Broadening the Spatial Applicability of Paleoclimate Informationâ€”A Case Study for the Murrayâ€“Darling Basin, Australia. Journal of Climate, 2014, 27, 2477-2495.	1.2	14
79	Developing Hazard Lines in Response to Coastal Flooding and Sea Level Change. Urban Policy and Research, 2014, 32, 341-360.	0.8	5
80	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
81	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
82	Temporal and spatial variability of the cropping limit in South Australia. Climate Research, 2014, 60, 25-34.	0.4	7
83	Bridging the gap between end user needs and science capability: decision making under uncertainty. Climate Research, 2014, 61, 57-74.	0.4	22
84	Climate Variability and Change. , 2014, , 31-68.		0
85	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
86	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
87	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
88	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
89	Disconnect between science and end-users as a barrier to climate change adaptation. Climate Research, 2013, 58, 29-41.	0.4	34
90	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

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91	Understanding hydroclimate processes in the Murray-Darling Basin for natural resources management. Hydrology and Earth System Sciences, 2012, 16, 2049-2068.	1.9	87
92	The Southern Annular Mode: a comparison of indices. Hydrology and Earth System Sciences, 2012, 16, 967-982.	1.9	98
93	Steps toward â€œusefulâ€•hydroclimatic scenarios for water resource management in the Murrayâ€Darling Basin. Water Resources Research, 2011, 47, .	1.7	59
94	Quantifying Drought Risk in a Nonstationary Climate. Journal of Hydrometeorology, 2010, 11, 1019-1031.	0.7	66
95	Towards understanding hydroclimatic change in Victoria, Australia â€“ preliminary insights into the "Big Dry". Hydrology and Earth System Sciences, 2010, 14, 433-445.	1.9	76
96	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
97	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
98	Estimation of Soil Erosion and Sediment Yield During Individual Rainstorms at Catchment Scale. Water Resources Management, 2009, 23, 1447-1465.	1.9	49
99	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
100	Climatic drivers of Victorian streamflow: Is ENSO the dominant influence?. Australian Journal of Water Resources, 2009, 13, 17-29.	1.6	51
101	Investigation of the Mekong River basin hydrology for 1980â€“2000 using the YHyM. Hydrological Processes, 2008, 22, 1246-1256.	1.1	47
102	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
103	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
104	Relating BTOPMC model parameters to physical features of MOPEX basins. Journal of Hydrology, 2006, 320, 84-102.	2.3	46
105	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
106	Multi-decadal variability of drought risk, eastern Australia. Hydrological Processes, 2004, 18, 2039-2050.	1.1	150
107	Multidecadal variability of rainfall and streamflow: Eastern Australia. Water Resources Research, 2004, 40, .	1.7	195
108	Multi-decadal variability of forest fire risk - eastern Australia. International Journal of Wildland Fire, 2004, 13, 165.	1.0	63

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109	Multi-decadal variability of flood risk. Geophysical Research Letters, 2003, 30, .	1.5	259
110	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
111	Reconciling Unevenly Sampled Paleoclimate Proxies: a Gaussian Kernel Correlation Multiproxy Reconstruction. Journal of Environmental Informatics, 0, , .	6.0	4
112	Wildfires in the Arctic and tropical biomes: what is the relative role of climate?. Natural Hazards, 0, , .	1.6	1