

Mathieu Rouault

List of Publications by Year in descending order

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74
papers

4,031
citations

94433

37
h-index

118850

62
g-index

77
all docs

77
docs citations

77
times ranked

3372
citing authors

#	ARTICLE	IF	CITATIONS
1	Title is missing!. Natural Hazards, 2003, 29, 139-154.	3.4	212
2	Links between the Antarctic Oscillation and winter rainfall over western South Africa. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	171
3	South East tropical Atlantic warm events and southern African rainfall. Geophysical Research Letters, 2003, 30, n/a-n/a.	4.0	159
4	Warming in the Agulhas Current system since the 1980's. Geophysical Research Letters, 2009, 36, .	4.0	159
5	Coastal oceanic climate change and variability from 1982 to 2009 around South Africa. African Journal of Marine Science, 2010, 32, 237-246.	1.1	144
6	20th century droughts in southern Africa: spatial and temporal variability, teleconnections with oceanic and atmospheric conditions. International Journal of Climatology, 2001, 21, 873-885.	3.5	142
7	Intensity and spatial extent of droughts in southern Africa. Geophysical Research Letters, 2005, 32, .	4.0	137
8	Modification of the southern African rainfall variability/ENSO relationship since the late 1960s. Climate Dynamics, 2000, 16, 883-895.	3.8	124
9	The source of Benguela Niños in the South Atlantic Ocean. Geophysical Research Letters, 2003, 30, n/a-n/a.	4.0	123
10	Recurrent daily OLR patterns in the Southern Africa/Southwest Indian Ocean region, implications for South African rainfall and teleconnections. Climate Dynamics, 2009, 32, 575-591.	3.8	122
11	ENSO-like decadal variability and South African rainfall. Geophysical Research Letters, 2002, 29, 16-1.	4.0	120
12	Observations of a young Agulhas ring, Astrid, during MARE in March 2000. Deep-Sea Research Part II: Topical Studies in Oceanography, 2003, 50, 167-195.	1.4	108
13	Ecosystem change in the southern Benguela and the underlying processes. Journal of Marine Systems, 2015, 144, 9-29.	2.1	103
14	Evolution of Interannual Warm and Cold Events in the Southeast Atlantic Ocean. Journal of Climate, 2004, 17, 2318-2334.	3.2	95
15	Propagation and origin of warm anomalies in the Angola Benguela upwelling system in 2001. Journal of Marine Systems, 2007, 68, 473-488.	2.1	92
16	Impact of intensified Indian Ocean winds on mesoscale variability in the Agulhas system. Nature Climate Change, 2012, 2, 608-612.	18.8	84
17	The influence of ENSO on winter rainfall in South Africa. International Journal of Climatology, 2012, 32, 2333-2347.	3.5	83
18	Moisture transport between the South Atlantic Ocean and southern Africa: relationships with summer rainfall and associated dynamics. Climate Dynamics, 2009, 32, 113-123.	3.8	82

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19	Relationships between the Antarctic Oscillation, the Madden-Julian Oscillation, and ENSO, and Consequences for Rainfall Analysis. <i>Journal of Climate</i> , 2010, 23, 238-254.	3.2	75
20	The impact of ENSO on Southern African rainfall in CMIP5 ocean atmosphere coupled climate models. <i>Climate Dynamics</i> , 2015, 45, 2425-2442.	3.8	73
21	Interannual winter rainfall variability in SW South Africa and large scale ocean-atmosphere interactions. <i>Meteorology and Atmospheric Physics</i> , 2002, 80, 19-29.	2.0	64
22	Structure and origin of the subtropical South Indian Ocean Countercurrent. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	64
23	Recurrent daily rainfall patterns over South Africa and associated dynamics during the core of the austral summer. <i>International Journal of Climatology</i> , 2012, 32, 261-273.	3.5	63
24	PIRATA: A Sustained Observing System for Tropical Atlantic Climate Research and Forecasting. <i>Earth and Space Science</i> , 2019, 6, 577-616.	2.6	63
25	Dry summers over northeastern South Africa and associated circulation anomalies. <i>Climate Research</i> , 2003, 25, 29-41.	1.1	62
26	Intensity and spatial extension of drought in South Africa at different time scales. <i>Water S A</i> , 2004, 29, 489.	0.4	61
27	Ocean-Atmosphere Interaction in the Agulhas Current Region and a South African Extreme Weather Event. <i>Weather and Forecasting</i> , 2002, 17, 655-669.	1.4	61
28	A 1000-Year Carbon Isotope Rainfall Proxy Record from South African Baobab Trees (<i>Adansonia</i>) Tj ETQq0 0 0 rgBT /Overlock_10 Tf 50 3	2.5	58
29	Underestimation of Latent and Sensible Heat Fluxes above the Agulhas Current in NCEP and ECMWF Analyses. <i>Journal of Climate</i> , 2003, 16, 776-782.	3.2	55
30	Sea surface temperature in False Bay (South Africa): Towards a better understanding of its seasonal and inter-annual variability. <i>Continental Shelf Research</i> , 2012, 43, 24-35.	1.8	55
31	Bi-annual intrusion of tropical water in the northern Benguela upwelling. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	54
32	Interannual to interdecadal variability of winter and summer southern African rainfall, and their teleconnections. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6215-6239.	3.3	54
33	The Atmospheric Boundary Layer above the Agulhas Current during Alongcurrent Winds. <i>Journal of Physical Oceanography</i> , 2000, 30, 40-50.	1.7	48
34	Human-mediated drivers of change - impacts on coastal ecosystems and marine biota of South Africa. <i>African Journal of Marine Science</i> , 2013, 35, 403-425.	1.1	46
35	Spatial patterns of seasonal scale trends in extreme hourly precipitation in South Africa. <i>Applied Geography</i> , 2013, 39, 151-157.	3.7	44
36	Interactions between synoptic, intraseasonal and interannual convective variability over Southern Africa. <i>Climate Dynamics</i> , 2009, 33, 1033-1050.	3.8	41

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37	Modes of the southern extension of the East Madagascar Current. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	40
38	Climate variability at Marion Island, Southern Ocean, since 1960. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	39
39	Simulation of the annual and diurnal cycles of rainfall over South Africa by a regional climate model. <i>Climate Dynamics</i> , 2014, 43, 2207-2226.	3.8	36
40	Origin, development and demise of the 2010â€“2011 Benguela NiÃ±o. <i>Journal of Marine Systems</i> , 2018, 188, 39-48.	2.1	34
41	Sea surface temperature variability in the tropical southeast Atlantic Ocean and West African rainfall. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	31
42	The diurnal cycle of rainfall in South Africa in the austral summer. <i>International Journal of Climatology</i> , 2013, 33, 770-777.	3.5	31
43	Role of interannual K–elvin wave propagations in the equatorial Atlantic on the Angola Benguela current system. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 4685-4703.	2.6	31
44	Extension of PIRATA in the tropical South-East Atlantic: an initial one-year experiment. <i>African Journal of Marine Science</i> , 2009, 31, 63-71.	1.1	30
45	Atmospheric Signature of the Agulhas Current. <i>Geophysical Research Letters</i> , 2018, 45, 5185-5193.	4.0	30
46	Coastal upwelling south of Madagascar: Temporal and spatial variability. <i>Journal of Marine Systems</i> , 2018, 178, 29-37.	2.1	30
47	A synthesis of three decades of socio-ecological change in False Bay, South Africa: setting the scene for multidisciplinary research and management. <i>Elementa</i> , 2019, 7, .	3.2	30
48	Water vapour transport from the tropical Atlantic and summer rainfall in tropical southern Africa. <i>Climate Dynamics</i> , 2006, 28, 113-123.	3.8	29
49	From Synoptic to Interdecadal Variability in Southern African Rainfall: Toward a Unified View across Time Scales. <i>Journal of Climate</i> , 2018, 31, 5845-5872.	3.2	27
50	Benguela NiÃ±os and Benguela NiÃ±as in Forced Ocean Simulation From 1958 to 2015. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 5923-5951.	2.6	27
51	Temperature changes in the mid– and high– latitudes of the Southern Hemisphere. <i>International Journal of Climatology</i> , 2013, 33, 1948-1963.	3.5	25
52	Interannual memory effects for spring NDVI in semi– arid South Africa. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	24
53	Moisture uptake in the boundary layer above the Agulhas Current: A case study. <i>Journal of Geophysical Research</i> , 1999, 104, 1423-1430.	3.3	23
54	10 Influences of large scale climate modes and agulhas system variability on the BCLME region. <i>Large Marine Ecosystems</i> , 2006, , 223-238.	0.2	22

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55	Interannual Coastal Trapped Waves in the Angola-Benguela Upwelling System and Benguela Niño and Niña events. <i>Journal of Marine Systems</i> , 2020, 203, 103262.	2.1	22
56	On the Structure of the Regional-Scale Circulation over Central Africa: Seasonal Evolution, Variability, and Mechanisms. <i>Journal of Climate</i> , 2020, 33, 145-162.	3.2	21
57	Southern African summer-rainfall variability, and its teleconnections, on interannual to interdecadal timescales in CMIP5 models. <i>Climate Dynamics</i> , 2019, 53, 3505-3527.	3.8	19
58	Spatial dynamics of the bearded goby and its key fish predators off Namibia vary with climate and oxygen availability. <i>Fisheries Oceanography</i> , 2015, 24, 88-101.	1.7	18
59	Uncovering a New Current: The Southwest Madagascar Coastal Current. <i>Geophysical Research Letters</i> , 2018, 45, 1930-1938.	4.0	16
60	Fine-time resolution measurements of atmospheric boundary layer properties between Cape Town and Marion Island. <i>African Journal of Marine Science</i> , 1996, 17, 281-296.	0.6	12
61	ATMOSPHERIC BOUNDARY-LAYER FLUXES AND STRUCTURE ACROSS A LAND-SEA TRANSITION ZONE IN SOUTH-EASTERN AFRICA. <i>Boundary-Layer Meteorology</i> , 1997, 83, 311-330.	2.3	11
62	Wind changes above warm Agulhas Current eddies. <i>Ocean Science</i> , 2016, 12, 495-506.	3.4	10
63	Multi-month memory effects on early summer vegetative activity in semi-arid South Africa and their spatial heterogeneity. <i>International Journal of Remote Sensing</i> , 2012, 33, 6763-6782.	2.9	9
64	Signature of the Agulhas Current in high resolution satellite derived wind fields. <i>Remote Sensing of Environment</i> , 2018, 217, 340-351.	11.0	9
65	Observations of an early Agulhas current retroflexion event in 2001: A temporary cessation of inter-ocean exchange south of Africa?. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2013, 72, 1-8.	1.4	8
66	Climate change is catchy “ but when will it really hurt?. <i>South African Medical Journal</i> , 2015, 105, 1018.	0.6	8
67	Seasonal Cycle of Sea Surface Salinity in the Angola Upwelling System. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	2.6	6
68	Impact of El Niño–Southern Oscillation on the Benguela Upwelling. <i>Journal of Physical Oceanography</i> , 2022, 52, 2573-2587.	1.7	5
69	Latent Heat Flux in the Agulhas Current. <i>Remote Sensing</i> , 2019, 11, 1576.	4.0	4
70	Characterising the seasonal cycle of wind forcing, surface circulation and temperature around the sub-Antarctic Prince Edward Islands. <i>African Journal of Marine Science</i> , 2021, 43, 61-76.	1.1	4
71	Intraseasonal descriptors and extremes in South African rainfall. Part I: Summer climatology and statistical characteristics. <i>International Journal of Climatology</i> , 2022, 42, 4538-4563.	3.5	3
72	Impact of the Agulhas Current on southern Africa precipitation: a modelling study. <i>Journal of Climate</i> , 2021, , 1-50.	3.2	2

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73	Where and How the East Madagascar Current Retroflexion Originates?. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016203.	2.6	2
74	Transport and transformation of surface water masses across the Mascarene Plateau during the Northeast Monsoon season. African Journal of Marine Science, 2017, 39, 453-466.	1.1	0