Agus Santoso

List of Publications by Year
in descending order

70 papers	9,302 citations	109264 35 h-index	42364 92 g-index
97 all docs	97 docs citations	97 times ranked	9414 citing authors

#	Article	IF	Citations
1	Increased ENSO sea surface temperature variability under four IPCC emission scenarios. Nature Climate Change, 2022, 12, 228-231.	8.1	85
2	Improved Simulation of ENSO Variability Through Feedback From the Equatorial Atlantic in a Pacemaker Experiment. Geophysical Research Letters, 2022, 49, .	1.5	5
3	Indonesian Throughflow Variability and Linkage to ENSO and IOD in an Ensemble of CMIP5 Models. Journal of Climate, 2022, 35, 3161-3178.	1.2	10
4	The Impact of Interacting Climate Modes on East Australian Precipitation Moisture Sources. Journal of Climate, 2022, 35, 3147-3159.	1.2	19
5	Phase Coherence Between Surrounding Oceans Enhances Precipitation Shortages in Northeast Brazil. Geophysical Research Letters, 2022, 49, .	1.5	2
6	Future Southern Ocean warming linked to projected ENSO variability. Nature Climate Change, 2022, 12, 649-654.	8.1	23
7	Indian Ocean warming as key driver of long-term positive trend of Arctic Oscillation. Npj Climate and Atmospheric Science, 2022, 5, .	2.6	8
8	Opposite response of strong and moderate positive Indian Ocean Dipole to global warming. Nature Climate Change, 2021, 11, 27-32.	8.1	79
9	Simulated Thermocline Tilt Over the Tropical Indian Ocean and Its Influence on Future Sea Surface Temperature Variability. Geophysical Research Letters, 2021, 48, e2020GL091902.	1.5	8
10	CMIP5 Intermodel Relationships in the Baseline Southern Ocean Climate System and With Future Projections. Earth's Future, 2021, 9, e2020EF001873.	2.4	18
11	Changing El NiÃ±oâ€“Southern Oscillation in a warming climate. Nature Reviews Earth & Environment, 2021, 2, 628-644.	12.2	197
12	Stronger Increase in the Frequency of Extreme Convective than Extreme Warm El NiÃ±o Events under Greenhouse Warming. Journal of Climate, 2020, 33, 675-690.	1.2	18
13	Indian Ocean warming modulates global atmospheric circulation trends. Climate Dynamics, 2020, 55, 2053-2073.	1.7	28
14	A Unique Feature of the 2019 Extreme Positive Indian Ocean Dipole Event. Geophysical Research Letters, 2020, 47, e2020GL088615.	1.5	40
15	Indian Ocean Dipole in CMIP5 and CMIP6: characteristics, biases, and links to ENSO. Scientific Reports, 2020, 10, 11500.	1.6	94
16	Butterfly effect and a self-modulating El NiÃ±o response to global warming. Nature, 2020, 585, 68-73.	13.7	63
17	Climate impacts of the El NiÃ±oâ€“Southern Oscillation on South America. Nature Reviews Earth & Environment, 2020, 1, 215-231.	12.2	318
18	Advancing Knowledge of ENSO in a Changing Climate. Eos, 2020, 101, .	0.1	1

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19	Contribution of tropical instability waves to ENSO irregularity. Climate Dynamics, 2019, 52, 1837-1855.	1.7	17
20	Previously unidentified Indonesian Throughflow pathways and freshening in the Indian Ocean during recent decades. Scientific Reports, 2019, 9, 7364.	1.6	24
21	Uncertainty in near-term global surface warming linked to tropical Pacific climate variability. Nature Communications, 2019, 10, 1990.	5.8	19
22	Pantropical climate interactions. Science, 2019, 363, .	6.0	419
23	Dynamics and Predictability of El NiÃ±oâ€"Southern Oscillation: An Australian Perspective on Progress and Challenges. Bulletin of the American Meteorological Society, 2019, 100, 403-420.	1.7	46
24	Understanding ENSO in a Changing Climate. Eos, 2019, 100, .	0.1	2
25	Stabilised frequency of extreme positive Indian Ocean Dipole under 1.5â€‰Â°C warming. Nature Communications, 2018, 9, 1419.	5.8	51
26	Distinctive role of ocean advection anomalies in the development of the extreme 2015â€"16 El NiÃ±o. Climate Dynamics, 2018, 51, 2191-2208.	1.7	14
27	Model under-representation of decadal Pacific trade wind trends and its link to tropical Atlantic bias. Climate Dynamics, 2018, 50, 1471-1484.	1.7	41
28	Indian Ocean warming during peak El NiÃ±o cools surrounding land masses. Climate Dynamics, 2018, 51, 2097-2112.	1.7	3
29	Increased variability of eastern Pacific El NiÃ±o under greenhouse warming. Nature, 2018, 564, 201-206.	13.7	394
30	El NiÃ±oâ€"Southern Oscillation complexity. Nature, 2018, 559, 535-545.	13.7	702
31	Learning from an Extreme El NiÃ±o. Eos, 2018, 99, .	0.1	0
32	Assessing the Impact of Model Biases on the Projected Increase in Frequency of Extreme Positive Indian Ocean Dipole Events. Journal of Climate, 2017, 30, 2757-2767.	1.2	30
33	Multiyear Variability in the Tasman Sea and Impacts on Southern Hemisphere Climate in CMIP5 Models. Journal of Climate, 2017, 30, 4413-4427.	1.2	3
34	Definition of Extreme El NiÃ±o and Its Impact on Projected Increase in Extreme El NiÃ±o Frequency. Geophysical Research Letters, 2017, 44, 11,184.	1.5	26
35	Continued increase of extreme ElÂNiÃ±o frequency long after 1.5â€‰Â°C warming stabilization. Nature Climate Change, 2017, 7, 568-572.	8.1	174
36	The Defining Characteristics of ENSO Extremes and the Strong 2015/2016 El NiÃ±o. Reviews of Geophysics, 2017, 55, 1079-1129.	9.0	337

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37	Iceâ€"Atmosphere Feedbacks Dominate the Response of the Climate System to Drake Passage Closure. Journal of Climate, 2017, 30, 5775-5790.	1.2	15
38	Tropical climate variability: interactions across the Pacific, Indian, and Atlantic Oceans. Climate Dynamics, 2017, 48, 2173-2190.	1.7	56
39	Future changes to the Indonesian Throughflow and Pacific circulation: The differing role of wind and deep circulation changes. Geophysical Research Letters, 2016, 43, 1669-1678.	1.5	56
40	A surface layer variance heat budget for ENSO. Geophysical Research Letters, 2015, 42, 3529-3537.	1.5	19
41	Increased frequency of extreme LaÂNiÃ±a events under greenhouse warming. Nature Climate Change, 2015, 5, 132-137.	8.1	479
42	Optimal forcing of ENSO either side of the 1970â€™s climate shift and its implications for predictability. Climate Dynamics, 2015, 45, 47-65.	1.7	5
43	Indo-Pacific Climate Interactions in the Absence of an Indonesian Throughflow. Journal of Climate, 2015, 28, 5017-5029.	1.2	20
44	Nonlinear processes reinforce extreme Indian Ocean Dipole events. Scientific Reports, 2015, 5, 11697.	1.6	20
45	MEETING SUMMARIES. Bulletin of the American Meteorological Society, 2015, 96, 1969-1972.	1.7	8
46	ENSO and greenhouse warming. Nature Climate Change, 2015, 5, 849-859.	8.1	596
47	Increasing frequency of extreme El NiÃ±o events due to greenhouse warming. Nature Climate Change, 2014, 4, 111-116.	8.1	1,572
48	Recent intensification of wind-driven circulation in the Pacific and the ongoing warming hiatus. Nature Climate Change, 2014, 4, 222-227.	8.1	1,115
49	Cold Tongue and Warm Pool ENSO Events in CMIP5: Mean State and Future Projections. Journal of Climate, 2014, 27, 2861-2885.	1.2	147
50	ENSOâ€driven interhemispheric Pacific mass transports. Journal of Geophysical Research: Oceans, 2014, 119, 6221-6237.	1.0	21
51	Response of El NiÃ±o sea surface temperature variability to greenhouse warming. Nature Climate Change, 2014, 4, 786-790.	8.1	147
52	Extreme swings of the South Pacific Convergence Zone and the different types of El NiÃ±o events. Geophysical Research Letters, 2014, 41, 4695-4703.	1.5	25
53	Increased frequency of extreme Indian Ocean Dipole events due to greenhouse warming. Nature, 2014, 510, 254-258.	13.7	296
54	Pacificâ€toâ€Indian Ocean connectivity: Tasman leakage, Indonesian Throughflow, and the role of ENSO. Journal of Geophysical Research: Oceans, 2014, 119, 1365-1382.	1.0	105

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55	Drought in store as El Nï¿½o. Ecos, 2014, , .	0.0	0
56	Late-twentieth-century emergence of the El NiÃ±o propagation asymmetry and future projections. Nature, 2013, 504, 126-130.	13.7	116
57	Meridional movement of wind anomalies during ENSO events and their role in event termination. Geophysical Research Letters, 2013, 40, 749-754.	1.5	90
58	The 1970's shift in ENSO dynamics: A linear inverse model perspective. Geophysical Research Letters, 2013, 40, 1612-1617.	1.5	12
59	Interhemispheric asymmetry in transient global warming: The role of Drake Passage. Geophysical Research Letters, 2013, 40, 1587-1593.	1.5	13
60	Multidecadal ENSO Amplitude Variability in a 1000-yr Simulation of a Coupled Global Climate Model: Implications for Observed ENSO Variability. Journal of Climate, 2013, 26, 9399-9407.	1.2	25
61	Impact of Indo-Pacific Feedback Interactions on ENSO Dynamics Diagnosed Using Ensemble Climate Simulations. Journal of Climate, 2012, 25, 7743-7763.	1.2	65
62	Impact of the El NiÃ±oâ€"Southern Oscillation, Indian Ocean Dipole, and Southern Annular Mode on Daily to Subdaily Rainfall Characteristics in East Australia. Monthly Weather Review, 2012, 140, 1665-1682.	0.5	54
63	The Role of the Indonesian Throughflow on ENSO Dynamics in a Coupled Climate Model. Journal of Climate, 2011, 24, 585-601.	1.2	34
64	Genesis of Indian Ocean Mixed Layer Temperature Anomalies: A Heat Budget Analysis. Journal of Climate, 2010, 23, 5375-5403.	1.2	48
65	Projected Changes to the Southern Hemisphere Ocean and Sea Ice in the IPCC AR4 Climate Models. Journal of Climate, 2009, 22, 3047-3078.	1.2	144
66	Interannual Tasmanian Rainfall Variability Associated with Large-Scale Climate Modes. Journal of Climate, 2009, 22, 4383-4397.	1.2	48
67	Antarctic Bottom Water Variability in a Coupled Climate Model. Journal of Physical Oceanography, 2008, 38, 1870-1893.	0.7	14
68	Interannual Rainfall Extremes over Southwest Western Australia Linked to Indian Ocean Climate Variability. Journal of Climate, 2006, 19, 1948-1969.	1.2	110
69	Circumpolar Deep Water Circulation and Variability in a Coupled Climate Model. Journal of Physical Oceanography, 2006, 36, 1523-1552.	0.7	22
70	Antarctic Intermediate Water Circulation and Variability in a Coupled Climate Model. Journal of Physical Oceanography, 2004, 34, 2160-2179.	0.7	37