

Ralf Toumi

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

1,654
citations

279798

23
h-index

302126

39
g-index

68
all docs

68
docs citations

68
times ranked

2571
citing authors

#	ARTICLE	IF	CITATIONS
1	The relationship between leaf area index and microclimate in tropical forest and oil palm plantation: Forest disturbance drives changes in microclimate. <i>Agricultural and Forest Meteorology</i> , 2015, 201, 187-195.	4.8	298
2	Recent migration of tropical cyclones toward coasts. <i>Science</i> , 2021, 371, 514-517.	12.6	119
3	Anomalously warm temperatures are associated with increased injury deaths. <i>Nature Medicine</i> , 2020, 26, 65-70.	30.7	87
4	Lightning activities on the Tibetan Plateau as observed by the lightning imaging sensor. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	78
5	Some doubts concerning a link between cosmic ray fluxes and global cloudiness. <i>Geophysical Research Letters</i> , 1999, 26, 863-865.	4.0	77
6	Super-Clausius-Clapeyron scaling of rainfall in a model squall line. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013, 139, 334-339.	2.7	67
7	The Bunburra Rockhole meteorite fall in SW Australia: fireball trajectory, luminosity, dynamics, orbit, and impact position from photographic and photoelectric records. <i>Meteoritics and Planetary Science</i> , 2012, 47, 163-185.	1.6	53
8	Radiative forcing due to trends in stratospheric water vapour. <i>Geophysical Research Letters</i> , 2001, 28, 179-182.	4.0	50
9	Indirect influence of ozone depletion on climate forcing by clouds. <i>Nature</i> , 1994, 372, 348-351.	27.8	47
10	The western Pacific subtropical high and tropical cyclone landfall: Seasonal forecasts using the Met Office GloSea5 system. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 105-116.	2.7	42
11	A tropospheric ozone-lightning climate feedback. <i>Geophysical Research Letters</i> , 1996, 23, 1037-1040.	4.0	41
12	On the withdrawal of the Indian summer monsoon. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2004, 130, 989-1008.	2.7	40
13	Seasonal variation of lightning on the Tibetan Plateau: A Spring anomaly?. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	40
14	Total ozone and surface UV trends in the United Kingdom: 1979-2008. <i>International Journal of Climatology</i> , 2012, 32, 338-346.	3.5	37
15	On the lake effects of the Caspian Sea. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014, 140, 1399-1408.	2.7	37
16	Scaling and persistence in observed and modeled surface temperature. <i>Geophysical Research Letters</i> , 2001, 28, 3255-3258.	4.0	36
17	Direct observation of cloud forcing by ground-based thermal imaging. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	33
18	National and regional seasonal dynamics of all-cause and cause-specific mortality in the USA from 1980 to 2016. <i>eLife</i> , 2018, 7, .	6.0	29

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19	Seasonal trends in stratospheric water vapour. <i>Geophysical Research Letters</i> , 2000, 27, 1687-1690.	4.0	28
20	Air transport cruise altitude restrictions to minimize contrail formation. <i>Climate Policy</i> , 2003, 3, 207-219.	5.1	28
21	An analytic model of tropical cyclone wind profiles. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 3018-3029.	2.7	26
22	A historical analysis of the mature stage of tropical cyclones. <i>International Journal of Climatology</i> , 2018, 38, 2490-2505.	3.5	26
23	A fully-coupled atmosphere-ocean-wave model of the Caspian Sea. <i>Ocean Modelling</i> , 2016, 107, 97-111.	2.4	24
24	Measuring Cloud Cover and Brightness Temperature with a Ground-Based Thermal Infrared Camera. <i>Journal of Applied Meteorology and Climatology</i> , 2008, 47, 683-693.	1.5	22
25	IMAGE: a multivariate multi-site stochastic weather generator for European weather and climate. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 771-784.	4.0	20
26	Mountain Station pressure as an indicator of climate change. <i>Geophysical Research Letters</i> , 1999, 26, 1751-1754.	4.0	19
27	The role of wind-solar hybrid plants in mitigating renewable energy-droughts. <i>Renewable Energy</i> , 2022, 194, 926-937.	8.9	18
28	Climate forcing by stratospheric ozone depletion calculated from observed temperature trends. <i>Geophysical Research Letters</i> , 1996, 23, 3183-3186.	4.0	17
29	Reduced Sensitivity of Tropical Cyclone Intensity and Size to Sea Surface Temperature in a Radiative-Convective Equilibrium Environment. <i>Advances in Atmospheric Sciences</i> , 2018, 35, 981-993.	4.3	16
30	Improved Tropical Cyclone Intensity Forecasts by Assimilating Coastal Surface Currents in an Idealized Study. <i>Geophysical Research Letters</i> , 2018, 45, 10,019.	4.0	16
31	Recent Progress in the Fundamental Understanding of Tropical Cyclone Motion. <i>Journal of the Meteorological Society of Japan</i> , 2020, 98, 5-17.	1.8	13
32	Recent lengthening of the south Asian summer monsoon season. <i>Geophysical Research Letters</i> , 2002, 29, 96-1-96-4.	4.0	11
33	Impact of wave whitecapping on land falling tropical cyclones. <i>Scientific Reports</i> , 2018, 8, 652.	3.3	10
34	Recent tropical cyclone changes inferred from ocean surface temperature cold wakes. <i>Scientific Reports</i> , 2021, 11, 22269.	3.3	10
35	A Comparison of Climate Forcings Due to Chlorofluorocarbons and Carbon Monoxide. <i>Geophysical Research Letters</i> , 1996, 23, 65-68.	4.0	9
36	Sensitivity of Caspian sea ice to air temperature. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 3088-3096.	2.7	9

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37	Modeled dependence of wind and waves on ocean temperature in tropical cyclones. <i>Geophysical Research Letters</i> , 2014, 41, 7383-7390.	4.0	8
38	Evaluation of thermal and dynamic impacts of summer dust aerosols on the Red Sea. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 1325-1346.	2.6	7
39	A balanced Kalman filter ocean data assimilation system with application to the South Australian Sea. <i>Ocean Modelling</i> , 2017, 116, 159-172.	2.4	7
40	A self-weakening mechanism for tropical cyclones. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 2585-2599.	2.7	7
41	Assimilation of Satellite Salinity for Modelling the Congo River Plume. <i>Remote Sensing</i> , 2020, 12, 11.	4.0	7
42	Using Video Recognition to Identify Tropical Cyclone Positions. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091912.	4.0	7
43	An integrated framework of coastal flood modelling under the failures of sea dikes: a case study in Shanghai. <i>Natural Hazards</i> , 2021, 109, 671-703.	3.4	7
44	Tropical cyclones near landfall can induce their own intensification through feedbacks on radiative forcing. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	7
45	A dipole of tropical cyclone outgoing longwave radiation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 166-180.	2.7	6
46	An analytic model of the tropical cyclone outer size. <i>Npj Climate and Atmospheric Science</i> , 2022, 5, .	6.8	6
47	On the impact of aerosols on soil erosion. <i>Geophysical Research Letters</i> , 2013, 40, 5994-5998.	4.0	5
48	The deep circulation of the Faroe-Shetland Channel: Opposing flows and topographic eddies. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 5983-5996.	2.6	5
49	Effect of extreme ocean precipitation on sea surface elevation and storm surges. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 2541-2550.	2.7	5
50	Is the tropical cyclone surge in Shanghai more sensitive to landfall location or intensity change?. <i>Atmospheric Science Letters</i> , 2021, 22, e1058.	1.9	5
51	Importance of Air-Sea Coupling in Simulating Tropical Cyclone Intensity at Landfall. <i>Advances in Atmospheric Sciences</i> , 2022, 39, 1777-1786.	4.3	5
52	The dependence of precipitation and its footprint on atmospheric temperature in idealized extratropical cyclones. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 8743-8754.	3.3	4
53	Can the Ocean's Heat Engine Control Horizontal Circulation? Insights From the Caspian Sea. <i>Geophysical Research Letters</i> , 2017, 44, 9893-9900.	4.0	4
54	Strongly Coupled Assimilation of a Hypothetical Ocean Current Observing Network within a Regional Ocean-Atmosphere Coupled Model: An OSSE Case Study of Typhoon Hato. <i>Monthly Weather Review</i> , 2021, 149, 1317-1336.	1.4	4

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55	Diurnal temperature range and rainfall probability over the United Kingdom. <i>Geophysical Research Letters</i> , 2000, 27, 1279-1282.	4.0	3
56	Non-Linearities between Atmospheric Sulphur and Sulphur Emissions. <i>Water, Air, and Soil Pollution</i> , 2002, 140, 279-295.	2.4	3
57	Model study of the asymmetry in tropical cyclone-induced positive and negative surges. <i>Atmospheric Science Letters</i> , 2016, 17, 334-338.	1.9	3
58	Climate and CCN. <i>Nature</i> , 1995, 375, 111-111.	27.8	2
59	Reply [to "Comment on "Climate forcing by stratospheric ozone depletion Calculated from observed temperature trends" by Zhong et al.]. <i>Geophysical Research Letters</i> , 1998, 25, 665-665.	4.0	1
60	VIEWS AND REVIEWS: "Urban Meteorology And Air Quality". Meeting 21 March 2001, University of Birmingham. <i>Atmospheric Science Letters</i> , 2001, 2, 173-174.	1.9	1
61	Reply to: Concerns over calculating injury-related deaths associated with temperature. <i>Nature Medicine</i> , 2020, 26, 1827-1828.	30.7	1
62	Adapting to Climate Change: A Regional Climate Model Study of the Caucasus. , 2012, , .		0
63	Regional modelling of rainfall erosivity: sensitivity of soil erosion to aerosol emissions. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 265-277.	2.7	0
64	Hurricanes as an enabler of Amazon fires. <i>Scientific Reports</i> , 2021, 11, 16960.	3.3	0
65	Pacific subsurface temperature as a long-range indicator of El Niño, regional precipitation and fire. <i>Quarterly Journal of the Royal Meteorological Society</i> , 0, , .	2.7	0