

Tomonori Sato

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/737567/publications.pdf>

Version: 2024-02-01

72
papers

2,838
citations

279487

23
h-index

174990

52
g-index

72
all docs

72
docs citations

72
times ranked

3260
citing authors

#	ARTICLE	IF	CITATIONS
1	Holocene moisture evolution in arid central Asia and its out-of-phase relationship with Asian monsoon history. <i>Quaternary Science Reviews</i> , 2008, 27, 351-364.	1.4	967
2	Projection of global warming onto regional precipitation over Mongolia using a regional climate model. <i>Journal of Hydrology</i> , 2007, 333, 144-154.	2.3	282
3	Diurnal Cycle of Precipitation in the Tropics Simulated in a Global Cloud-Resolving Model. <i>Journal of Climate</i> , 2009, 22, 4809-4826.	1.2	214
4	How Does the Tibetan Plateau Affect the Transition of Indian Monsoon Rainfall?. <i>Monthly Weather Review</i> , 2007, 135, 2006-2015.	0.5	76
5	Precipitation Changes in a Climate With 2°C Surface Warming From Large Ensemble Simulations Using 60-km Global and 20-km Regional Atmospheric Models. <i>Geophysical Research Letters</i> , 2019, 46, 435-442.	1.5	65
6	Resolution Dependency of the Diurnal Cycle of Convective Clouds over the Tibetan Plateau in a Mesoscale Model. <i>Journal of the Meteorological Society of Japan</i> , 2008, 86A, 17-31.	0.7	57
7	Impact of diabatic heating over the Tibetan Plateau on subsidence over northeast Asian arid region. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	55
8	Water sources in semiarid northeast Asia as revealed by field observations and isotope transport model. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	54
9	Recent Intensification of the Western Pacific Subtropical High Associated with the East Asian Summer Monsoon. <i>Journal of Climate</i> , 2015, 28, 2873-2883.	1.2	48
10	Interannual and spatial variability of solar radiation energy potential in Kenya using Meteosat satellite. <i>Renewable Energy</i> , 2018, 116, 88-96.	4.3	48
11	Diurnal Cycle of Convective Instability around the Central Mountains in Japan during the Warm Season. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 1626-1636.	0.6	47
12	Dust storms generated by mesoscale cold fronts in the Tarim Basin, Northwest China. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	46
13	Influences of subtropical jet and Tibetan Plateau on precipitation pattern in Asia: Insights from regional climate modeling. <i>Quaternary International</i> , 2009, 194, 148-158.	0.7	43
14	Validating a regional climate model's downscaling ability for East Asian summer monsoonal interannual variability. <i>Climate Dynamics</i> , 2013, 41, 2411-2426.	1.7	39
15	Mechanism of Orographic Precipitation around the Meghalaya Plateau Associated with Intraseasonal Oscillation and the Diurnal Cycle. <i>Monthly Weather Review</i> , 2013, 141, 2451-2466.	0.5	39
16	Recent increase in heat wave frequency around Mongolia: role of atmospheric forcing and possible influence of soil moisture deficit. <i>Atmospheric Science Letters</i> , 2016, 17, 135-140.	0.8	36
17	Intensification of hot Eurasian summers by climate change and land-atmosphere interactions. <i>Scientific Reports</i> , 2019, 9, 10866.	1.6	34
18	Contrasting Features of Monsoon Precipitation Around the Meghalaya Plateau Under Westerly and Easterly Regimes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 9591-9610.	1.2	33

#	ARTICLE	IF	CITATIONS
19	Observed behaviours of precipitable water vapour and precipitation intensity in response to upper air profiles estimated from surface air temperature. <i>Scientific Reports</i> , 2017, 7, 4233.	1.6	32
20	A Two-Dimensional Numerical Study on Diurnal Cycle of Mountain Lee Precipitation. <i>Journals of the Atmospheric Sciences</i> , 2003, 60, 1992-2003.	0.6	31
21	Impact of Initialized Land Surface Temperature and Snowpack on Subseasonal to Seasonal Prediction Project, Phase I (LS4P-I): organization and experimental design. <i>Geoscientific Model Development</i> , 2021, 14, 4465-4494.	1.3	31
22	Effects of Synoptic-Scale Control on Long-Term Declining Trends of Summer Fog Frequency over the Pacific Side of Hokkaido Island. <i>Journal of Applied Meteorology and Climatology</i> , 2013, 52, 2226-2242.	0.6	27
23	Memory effects of Eurasian land processes cause enhanced cooling in response to sea ice loss. <i>Nature Communications</i> , 2019, 10, 5111.	5.8	26
24	Impact of extensive irrigation on the formation of cumulus clouds. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	25
25	A composite analysis of diurnal cycle of GPS precipitable water vapor in central Japan during Calm Summer Days. <i>Theoretical and Applied Climatology</i> , 2008, 92, 15-29.	1.3	24
26	Multi- GCM by multi- RAM experiments for dynamical downscaling on summertime climate change in Hokkaido. <i>Atmospheric Science Letters</i> , 2015, 16, 297-304.	0.8	24
27	Vegetation and topographic control of cloud activity over arid/semiarid Asia. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	20
28	Spring diurnal cycle of clouds over Tibetan Plateau: Global cloud-resolving simulations and satellite observations. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	20
29	Regional Climate Response of Middle Eastern, African, and South Asian Monsoon Regions to Explosive Volcanism and ENSO Forcing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 7580-7598.	1.2	20
30	Analysis of Climate Trends and Leading Modes of Climate Variability for MENA Region. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 13,074.	1.2	19
31	Towards understanding the global and regional climatic impacts of Modoki magnitude. <i>Global and Planetary Change</i> , 2019, 172, 223-241.	1.6	19
32	Sharp rises in large-scale, long-duration precipitation extremes with higher temperatures over Japan. <i>Npj Climate and Atmospheric Science</i> , 2021, 4, .	2.6	19
33	Extensive dust outbreaks following the morning inversion breakup in the Taklimakan Desert. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	18
34	Role of soil moisture-atmosphere feedback during high temperature events in 2002 over Northeast Eurasia. <i>Progress in Earth and Planetary Science</i> , 2018, 5, .	1.1	18
35	Extreme precipitation intensity in future climates associated with the Clausius-Clapeyron-like relationship. <i>Hydrological Research Letters</i> , 2014, 8, 108-113.	0.3	17
36	A possible linkage of Eurasian heat wave and East Asian heavy rainfall in Relation to the Rapid Arctic warming. <i>Environmental Research</i> , 2022, 209, 112881.	3.7	17

#	ARTICLE	IF	CITATIONS
37	Future Changes in Monthly Extreme Precipitation in Japan Using Large-Ensemble Regional Climate Simulations. <i>Journal of Hydrometeorology</i> , 2019, 20, 563-574.	0.7	16
38	Potential impact of spatial patterns of future atmospheric warming on Asian dust emission. <i>Atmospheric Environment</i> , 2011, 45, 6682-6695.	1.9	15
39	Response of the Baiu Rainband to Northwest Pacific SST Anomalies and Its Impact on Atmospheric Circulation. <i>Journal of Climate</i> , 2016, 29, 3075-3093.	1.2	15
40	A numerical experiment on the influence of the interannual variation of sea surface temperature on terrestrial precipitation in northern Japan during the cold season. <i>Water Resources Research</i> , 2013, 49, 7763-7777.	1.7	14
41	Twice-Daily Monsoon Precipitation Maxima in the Himalayas Driven by Land Surface Effects. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034255.	1.2	12
42	Snow/Ice and Cloud Responses to Future Climate Change around Hokkaido. <i>Scientific Online Letters on the Atmosphere</i> , 2011, 7, 205-208.	0.6	12
43	Regional Projection of Tropical-Cyclone-Induced Extreme Precipitation around Japan Based on Large Ensemble Simulations. <i>Scientific Online Letters on the Atmosphere</i> , 2020, 16, 23-29.	0.6	12
44	Prediction of climatic suitability for wine grape production under the climatic change in Hokkaido. <i>J Agricultural Meteorology</i> , 2016, 72, 167-172.	0.8	11
45	An Oceanic Impact of the Kuroshio on Surface Air Temperature on the Pacific Coast of Japan in Summer: Regional H ₂ O Greenhouse Gas Effect. <i>Journal of Climate</i> , 2015, 28, 7128-7144.	1.2	10
46	Seasonal and diurnal variability in historical warming due to the urbanization of Hokkaido, Japan. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 5437-5445.	1.2	9
47	Spatio-Temporal Variation of High-Temperature Events in Hokkaido, North Japan. <i>Journal of the Meteorological Society of Japan</i> , 2014, 92, 327-346.	0.7	9
48	The TianShan Rain-shadow Influence on the Arid Climate Formation in Northwestern China. <i>Scientific Online Letters on the Atmosphere</i> , 2005, 1, 13-16.	0.6	8
49	Numerical experiments on cloud streets in the lee of island arcs during cold-air outbreaks. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	8
50	Diurnal Variation of Convective Activity and Precipitable Water around Ulaanbaator, Mongolia, and the Impact of Soil Moisture on Convective Activity during Nighttime. <i>Monthly Weather Review</i> , 2008, 136, 1401-1415.	0.5	8
51	Decreasing number of propagating mesoscale convective systems in Bangladesh and surrounding area during 1998-2015. <i>Atmospheric Science Letters</i> , 2019, 20, e879.	0.8	8
52	Performance analysis of short-term electricity demand with meteorological parameters. , 2017, , .		7
53	Direct measurement of leaf area index in a deciduous needle-leaf forest, eastern Siberia. <i>Polar Science</i> , 2020, 25, 100550.	0.5	7
54	Ocean Sensitivity to Periodic and Constant Volcanism. <i>Scientific Reports</i> , 2020, 10, 293.	1.6	7

#	ARTICLE	IF	CITATIONS
55	The Distribution of Cool Spots as Microrefugia in a Mountainous Area. <i>PLoS ONE</i> , 2015, 10, e0135732.	1.1	7
56	Role of Siberian Land-Atmosphere Coupling in the Development of the August Okhotsk High in 2008. <i>Journal of the Meteorological Society of Japan</i> , 2015, 93, 229-244.	0.7	6
57	Effect of ENSO phase on the contribution of environmental variables to tropical cyclone genesis in the western North Pacific. <i>International Journal of Climatology</i> , 2019, 39, 2461-2473.	1.5	6
58	Precipitable Water Vapor around Orographically Induced Convergence Line. <i>Scientific Online Letters on the Atmosphere</i> , 2006, 2, 25-28.	0.6	6
59	Evaluating the Role of Snow Cover in Urban Canopy Layer on the Urban Heat Island in Sapporo, Japan with a Regional Climate Model. <i>Journal of the Meteorological Society of Japan</i> , 2015, 93, 581-592.	0.7	5
60	Impact of Land-Use Change on Winter Precipitation in Hokkaido, Japan. <i>Scientific Online Letters on the Atmosphere</i> , 2015, 11, 95-99.	0.6	4
61	Analyses of Extreme Precipitation Associated with the Kinugawa River Flood in September 2015 Using a Large Ensemble Downscaling Experiment. <i>Journal of the Meteorological Society of Japan</i> , 2019, 97, 387-401.	0.7	4
62	Sensitivity of cool summer-induced sterility of rice to increased growing-season temperatures: A case study in Hokkaido, Japan. <i>J Agricultural Meteorology</i> , 2014, 70, 25-40.	0.8	4
63	Performance of Dynamic Downscaling for Extreme Weather Event in Eastern Mongolia: Case Study of Severe Windstorm on 26 May 2008. <i>Scientific Online Letters on the Atmosphere</i> , 2011, 7, 117-120.	0.6	3
64	Verification of Downscaling Framework for Interannual Variation of Tropical Cyclone in Western North Pacific. <i>Scientific Online Letters on the Atmosphere</i> , 2011, 7, 169-172.	0.6	3
65	Hourly Variation of Wind Speeds in the Philippines and Its Potential Impact on the Stability of the Power System. <i>Energies</i> , 2021, 14, 2310.	1.6	2
66	Cellulose Oxygen Isotopes of Sphagnum and Vascular Plants in a Peat Core Reveal Climate Change in Northern Japan Over the Past 2,000 Years. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009597.	1.0	2
67	Influence of Terrestrial Precipitation on the Variability of Extreme Sea Levels along the Coast of Bangladesh. <i>Water (Switzerland)</i> , 2021, 13, 2915.	1.2	2
68	Responses of Polar Mesocyclone Genesis to Topographic Forcing along the Eastern Coast of Eurasian Continent. <i>Journal of the Meteorological Society of Japan</i> , 2020, 98, 1261-1277.	0.7	2
69	Controlling Factors of Historical Variation of Winter Tibetan Plateau Snow Cover Revealed by Large Ensemble Experiments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, .	1.2	1
70	Observed Evidence of Enhanced Probability of Mesoscale Convective System Initiations due to Land Surface Heterogeneity in Semiarid East Asia. <i>Scientific Online Letters on the Atmosphere</i> , 2019, 15, 143-148.	0.6	1
71	Impact of SST on Present and Future Extreme Precipitation in Hokkaido Investigated Considering Weather Patterns. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	1
72	Decrease of winter cyclone passage over northern Japan due to the reduction in the regional cyclogenesis associated with cold air outbreak. <i>International Journal of Climatology</i> , 0, , .	1.5	1