

Tetsuya Tokano

List of Publications by Year in descending order

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47
papers

1,308
citations

361413

20
h-index

345221

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all docs

47
docs citations

47
times ranked

818
citing authors

#	ARTICLE	IF	CITATIONS
1	Methane drizzle on Titan. <i>Nature</i> , 2006, 442, 432-435.	27.8	146
2	Meteorological assessment of the surface temperatures on Titan: constraints on the surface type. <i>Icarus</i> , 2005, 173, 222-242.	2.5	86
3	Science Goals and Objectives for the Dragonfly Titan Rotorcraft Relocatable Lander. <i>Planetary Science Journal</i> , 2021, 2, 130.	3.6	80
4	Dune-forming winds on Titan and the influence of topography. <i>Icarus</i> , 2008, 194, 243-262.	2.5	72
5	Relevance of fast westerlies at equinox for the eastward elongation of Titan's dunes. <i>Aeolian Research</i> , 2010, 2, 113-127.	2.7	71
6	Wind-induced seasonal angular momentum exchange at Titan's surface and its influence on Titan's length-of-day. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	57
7	Impact of seas/lakes on polar meteorology of Titan: Simulation by a coupled GCM-Sea model. <i>Icarus</i> , 2009, 204, 619-636.	2.5	57
8	Limnological Structure of Titan's Hydrocarbon Lakes and Its Astrobiological Implication. <i>Astrobiology</i> , 2009, 9, 147-164.	3.0	52
9	Growth mechanisms and dune orientation on Titan. <i>Geophysical Research Letters</i> , 2014, 41, 6093-6100.	4.0	52
10	A 3km atmospheric boundary layer on Titan indicated by dune spacing and Huygens data. <i>Icarus</i> , 2010, 205, 719-721.	2.5	47
11	A model intercomparison of Titan's climate and low-latitude environment. <i>Icarus</i> , 2019, 333, 113-126.	2.5	36
12	Titan's planetary boundary layer structure at the Huygens landing site. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	35
13	A radar map of Titan Seas: Tidal dissipation and ocean mixing through the throat of Kraken. <i>Icarus</i> , 2014, 237, 9-15.	2.5	33
14	Winds and tides of Ligeia Mare, with application to the drift of the proposed time TiME (Titan Mare) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.7	32
15	Formulation of a wind specification for Titan late polar summer exploration. <i>Planetary and Space Science</i> , 2012, 70, 73-83.	1.7	31
16	Near-surface winds at the Huygens site on Titan: Interpretation by means of a general circulation model. <i>Planetary and Space Science</i> , 2007, 55, 1990-2009.	1.7	27
17	The exploration of Titan with an orbiter and a lake probe. <i>Planetary and Space Science</i> , 2014, 104, 78-92.	1.7	26
18	Numerical simulation of tides and oceanic angular momentum of Titan's hydrocarbon seas. <i>Icarus</i> , 2014, 242, 188-201.	2.5	24

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19	Precipitation Climatology on Titan-like Exomoons. <i>Origins of Life and Evolution of Biospheres</i> , 2015, 45, 231-239.	1.9	24
20	Simulation of tides in hydrocarbon lakes on Saturn's moon Titan. <i>Ocean Dynamics</i> , 2010, 60, 803-817.	2.2	22
21	GCM simulation of balloon trajectories on Titan. <i>Planetary and Space Science</i> , 2006, 54, 685-694.	1.7	20
22	Orbitally and geographically caused seasonal asymmetry in Titan's tropospheric climate and its implication for the lake distribution. <i>Icarus</i> , 2019, 317, 337-353.	2.5	20
23	Spatial inhomogeneity of the martian subsurface water distribution: implication from a global water cycle model. <i>Icarus</i> , 2003, 164, 50-78.	2.5	19
24	Westward rotation of the atmospheric angular momentum vector of Titan by thermal tides. <i>Planetary and Space Science</i> , 2010, 58, 814-829.	1.7	19
25	Wind-induced equatorial bulge in Venus and Titan general circulation models: Implication for the simulation of superrotation. <i>Geophysical Research Letters</i> , 2013, 40, 4538-4543.	4.0	18
26	Wind-driven circulation in Titan's seas. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 20-33.	3.6	18
27	Sun-stirred Kraken Mare: Circulation in Titan's seas induced by solar heating and methane precipitation. <i>Icarus</i> , 2016, 270, 67-84.	2.5	18
28	Variations in Titan's dune orientations as a result of orbital forcing. <i>Icarus</i> , 2016, 270, 197-210.	2.5	16
29	A review of Titan's atmospheric phenomena. <i>Astronomy and Astrophysics Review</i> , 2009, 17, 105-147.	25.5	15
30	The dynamics of Titan's troposphere. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 633-648.	3.4	15
31	Are tropical cyclones possible over Titan's polar seas?. <i>Icarus</i> , 2013, 223, 766-774.	2.5	15
32	Vertical atmospheric flow on Titan as measured by the HASI instrument on board the Huygens probe. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	13
33	Precipitation Climatology on Titan. <i>Science</i> , 2011, 331, 1393-1394.	12.6	13
34	Thermal structure of putative hydrocarbon lakes on Titan. <i>Advances in Space Research</i> , 2005, 36, 286-294.	2.6	11
35	Hydration state and abundance of zeolites on Mars and the water cycle. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	11
36	Polar motion of Titan forced by the atmosphere. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	11

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37	Non-uniform global methane distribution in Titan's troposphere evidenced by Cassini radio occultations. <i>Icarus</i> , 2014, 231, 1-12.	2.5	8
38	Modeling the polar motion of Titan. <i>Icarus</i> , 2016, 265, 1-28.	2.5	7
39	Modeling of Seasonal Lake Level Fluctuations of Titan's Seas/Lakes. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 617-635.	3.6	7
40	Mountain torque and its influence on the atmospheric angular momentum on Titan. <i>Icarus</i> , 2012, 220, 863-876.	2.5	6
41	Stable Existence of Tropical Endorheic Lakes on Titan. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086166.	4.0	5
42	Precession-driven migration of water in the surficial layers of Mars. <i>International Journal of Astrobiology</i> , 2003, 2, 155-170.	1.6	4
43	Nitrogen condensation in Titan's atmosphere under contemporary atmospheric composition. <i>Icarus</i> , 2017, 289, 120-133.	2.5	4
44	Orbitally forced variation in the size of Ontario Lacus on Titan simulated by a lake balance model. <i>Icarus</i> , 2021, 354, 114090.	2.5	2
45	Paleoclimate Evolution on Titan After Episodic Massive Methane Outgassing Simulated by a Global Climate Model. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, .	3.6	2
46	Eclipse-induced changes of Titan's meteorology at equinox. <i>Planetary and Space Science</i> , 2016, 121, 94-102.	1.7	1
47	Latitudinal Distribution of Ethane Precipitation on Titan Modulated by Topography and Orbital Forcing and Its Implication for Titan's Surface Evolution. <i>Planetary Science Journal</i> , 2021, 2, 86.	3.6	0