Norihiko Sugimoto

List of Publications by Year
in descending order

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39 papers	647 citations	566801 15 h-index	580395 25 g-index
40 all docs	40 docs citations	40 times ranked	368 citing authors

#	Article	IF	Citations
1	Wave analysis in the atmosphere of Venus below 100-km altitude, simulated by the LMD Venus GCM. Icarus, 2016, 278, 38-51.	1.1	84
2	Waves in a Venus general circulation model. Geophysical Research Letters, 2014, 41, 7461-7467.	1.5	52
3	Inverse insolation dependence of Venusâ€™ cloud-level convection. Icarus, 2014, 228, 181-188.	1.1	47
4	Baroclinic instability in the Venus atmosphere simulated by GCM. Journal of Geophysical Research E: Planets, 2014, 119, 1950-1968.	1.5	43
5	Threeâ€Dimensional Structures of Thermal Tides Simulated by a Venus GCM. Journal of Geophysical Research E: Planets, 2018, 123, 335-352.	1.5	42
6	The puzzling Venusian polar atmospheric structure reproduced by a general circulation model. Nature Communications, 2016, 7, 10398.	5.8	37
7	Thermal structure of the Venusian atmosphere from the sub-cloud region to the mesosphere as observed by radio occultation. Scientific Reports, 2020, 10, 3448.	1.6	36
8	Planetary-scale streak structure reproduced in high-resolution simulations of the Venus atmosphere with a low-stability layer. Nature Communications, 2019, 10, 23.	5.8	35
9	Local Time Dependence of the Thermal Structure in the Venusian Equatorial Upper Atmosphere: Comparison of Akatsuki Radio Occultation Measurements and GCM Results. Journal of Geophysical Research E: Planets, 2018, 123, 2270-2280.	1.5	28
10	A Theoretical Study on the Spontaneous Radiation of Inertiaâ€"Gravity Waves Using the Renormalization Group Method. Part I: Derivation of the Renormalization Group Equations. Journals of the Atmospheric Sciences, 2015, 72, 957-983.	0.6	26
11	Fully Developed Superrotation Driven by the Mean Meridional Circulation in a Venus GCM. Geophysical Research Letters, 2019, 46, 1776-1784.	1.5	24
12	Parameter Sweep Experiments on Spontaneous Gravity Wave Radiation from Unsteady Rotational Flow in an f-Plane Shallow Water System. Journals of the Atmospheric Sciences, 2008, 65, 235-249.	0.6	18
13	A Theoretical Study on the Spontaneous Radiation of Inertiaâ€"Gravity Waves Using the Renormalization Group Method. Part II: Verification of the Theoretical Equations by Numerical Simulation. Journals of the Atmospheric Sciences, 2015, 72, 984-1009.	0.6	17
14	Development of an ensemble Kalman filter data assimilation system for the Venusian atmosphere. Scientific Reports, 2017, 7, 9321.	1.6	16
15	Vertical structure of the axiâ€asymmetric temperature disturbance in the Venusian polar atmosphere: Comparison between radio occultation measurements and GCM results. Journal of Geophysical Research E: Planets, 2017, 122, 1687-1703.	1.5	16
16	Cycloneâ€"anticyclone asymmetry in gravity wave radiation from a co-rotating vortex pair in rotating shallow water. Journal of Fluid Mechanics, 2015, 772, 80-106.	1.4	12
17	Generation and backreaction of spontaneously emitted inertiaâ€gravity waves. Geophysical Research Letters, 2016, 43, 3519-3525.	1.5	11
18	Impact of Data Assimilation on Thermal Tides in the Case of Venus Express Wind Observation. Geophysical Research Letters, 2019, 46, 4573-4580.	1.5	11

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19	A GCM Study on the 4â€Day and 5â€Day Waves in the Venus Atmosphere. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	11
20	Gravity wave radiation from unsteady rotational flow in an<i>f</i>-plane shallow water system. Fluid Dynamics Research, 2007, 39, 731-754.	0.6	10
21	Venusian Cloud Distribution Simulated by a General Circulation Model. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006208.	1.5	10
22	Balance regimes for the stability of a jet in anf-plane shallow water system. Fluid Dynamics Research, 2007, 39, 353-377.	0.6	9
23	Generation of gravity waves from thermal tides in the Venus atmosphere. Nature Communications, 2021, 12, 3682.	5.8	9
24	Spontaneous Gravity Wave Radiation in a Shallow Water System on a Rotating Sphere. Journal of the Meteorological Society of Japan, 2012, 90, 101-125.	0.7	8
25	A First Attempt to Apply High Speed Spherical Self-organizing Map to Huge Climate Datasets. Scientific Online Letters on the Atmosphere, 2008, 4, 41-44.	0.6	6
26	Observing system simulation experiment for radio occultation measurements of the Venus atmosphere among small satellites. Journal of Japan Society of Civil Engineers Ser A2 (Applied) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 457	0.1	4
27	Observing System Simulation Experiment to Reproduce Kelvin Wave in the Venus Atmosphere. Atmosphere, 2021, 12, 14.	1.0	4
28	A Sensitivity Study of the Thermal Tides in the Venusian Atmosphere: Structures and Dynamical Effects on the Superrotation. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	4
29	A Dynamical Mechanism for Secondary Eyewall Formation in Tropical Cyclones. Journals of the Atmospheric Sciences, 2018, 75, 3965-3986.	0.6	3
30	Quasiâ€Periodic Variation of the Lower Equatorial Cloud Induced by Atmospheric Waves on Venus. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006781.	1.5	3
31	Inertia-gravity wave radiation from the merging of two co-rotating vortices in the f-plane shallow water system. Physics of Fluids, 2015, 27, 121701.	1.6	2
32	Inertiaâ€“gravity wave radiation from the elliptical vortex in the <i>f</i> -plane shallow water system. Fluid Dynamics Research, 2017, 49, 025508.	0.6	2
33	Kelvin Wave and Its Impact on the Venus Atmosphere Tested by Observing System Simulation Experiment. Atmosphere, 2022, 13, 182.	1.0	2
34	Dynamical Effect on Static Stability of the Venus Atmosphere Simulated Using a General Circulation Model: A Comparison With Radio Occultation Measurements. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	2
35	Source Models of Gravity Waves in an F-plane Shallow Water System. , 2007, , 221-225.		1
36	Numerical Modeling for Venus Atmosphere Based on AFES (Atmospheric GCM for the Earth Simulator). Communications in Computer and Information Science, 2012, , 70-78.	0.4	1

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37	Visualization of Huge Climate Data with High-Speed Spherical Self-Organizing Map. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2009, 13, 210-216.	0.5	1
38	Nonlinear Interaction Between Vortex and Wave in Rotating Shallow Water. , 2017, , .		0
39	A Fast Non-Empirical Tropical Cyclone Identification Method. , 2009, , 251-263.		0