

Yoshi-Yuki Hayashi

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,530
citations

346980

22
h-index

355658

38
g-index

53
all docs

53
docs citations

53
times ranked

1518
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of gravity waves from thermal tides in the Venus atmosphere. <i>Nature Communications</i> , 2021, 12, 3682.	5.8	9
2	Revision of "Dependence of Climate States of Gray Atmosphere on Solar Constant: From the Runaway Greenhouse to the Snowball States" by Ishiwatari et al. (2007). <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2019JD031761.	1.2	1
3	How waves and turbulence maintain the super-rotation of Venus's atmosphere. <i>Science</i> , 2020, 368, 405-409.	6.0	41
4	Obliquity of an Earth-like Planet from Frequency Modulation of Its Direct-imaged Lightcurve: Mock Analysis from General Circulation Model Simulation. <i>Astrophysical Journal</i> , 2020, 898, 95.	1.6	5
5	Planetary-scale streak structure reproduced in high-resolution simulations of the Venus atmosphere with a low-stability layer. <i>Nature Communications</i> , 2019, 10, 23.	5.8	35
6	The circulation pattern and day-night heat transport in the atmosphere of a synchronously rotating aquaplanet: Dependence on planetary rotation rate. <i>Icarus</i> , 2017, 282, 1-18.	1.1	71
7	Martian dust devil statistics from high-resolution large-eddy simulations. <i>Geophysical Research Letters</i> , 2016, 43, 4180-4188.	1.5	17
8	AKATSUKI returns to Venus. <i>Earth, Planets and Space</i> , 2016, 68, .	0.9	89
9	A Numerical Study of Convection in a Condensing CO ₂ Atmosphere under Early Mars-Like Conditions. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 4151-4169.	0.6	3
10	Performance benchmarks for a next generation numerical dynamo model. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 1586-1607.	1.0	66
11	Theoretical Aspects of Variability and Predictability in Weather and Climate Systems. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, 1101-1104.	1.7	8
12	A spherical shell numerical dynamo benchmark with pseudo-vacuum magnetic boundary conditions. <i>Geophysical Journal International</i> , 2014, 196, 712-723.	1.0	25
13	Full sphere hydrodynamic and dynamo benchmarks. <i>Geophysical Journal International</i> , 2014, 197, 119-134.	1.0	41
14	Numerical simulations of Jupiter's moist convection layer: Structure and dynamics in statistically steady states. <i>Icarus</i> , 2014, 229, 71-91.	1.1	39
15	Effects of latitudinally heterogeneous buoyancy flux conditions at the inner core boundary of an MHD dynamo in a rotating spherical shell. <i>Physics of the Earth and Planetary Interiors</i> , 2013, 223, 55-61.	0.7	1
16	The Aqua-Planet Experiment (APE): Response to Changed Meridional SST Profile. <i>Journal of the Meteorological Society of Japan</i> , 2013, 91A, 57-89.	0.7	34
17	The Aqua-Planet Experiment (APE): CONTROL SST Simulation. <i>Journal of the Meteorological Society of Japan</i> , 2013, 91A, 17-56.	0.7	64
18	The Variety of Spontaneously Generated Tropical Precipitation Patterns Found in APE Results. <i>Journal of the Meteorological Society of Japan</i> , 2013, 91A, 91-141.	0.7	7

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19	The Variety of Forced Atmospheric Structure in Response to Tropical SST Anomaly in the Aqua-Planet Experiments. <i>Journal of the Meteorological Society of Japan</i> , 2013, 91A, 143-193.	0.7	5
20	"Gtool"; a Fortran90 library of input/output interfaces for self-descriptive multi-dimensional numerical data. <i>Geoscientific Model Development</i> , 2012, 5, 449-455.	1.3	4
21	Numerical Modeling for Venus Atmosphere Based on AFES (Atmospheric GCM for the Earth Simulator). <i>Communications in Computer and Information Science</i> , 2012, , 70-78.	0.4	1
22	Retrograde equatorial surface flows generated by thermal convection confined under a stably stratified layer in a rapidly rotating spherical shell. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2011, 105, 61-81.	0.4	4
23	Intermittent cumulonimbus activity breaking the three-layer cloud structure of Jupiter. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	11
24	Weak-field dynamo emerging in a rotating spherical shell with stress-free top and no-slip bottom boundaries. <i>Physics of the Earth and Planetary Interiors</i> , 2011, 188, 203-213.	0.7	12
25	Overview of Venus orbiter, Akatsuki. <i>Earth, Planets and Space</i> , 2011, 63, 443-457.	0.9	72
26	Cfdnavi, Web-Based Data and Knowledge Server Software for Geophysical Fluid Sciences, Part I: Rationales, Stand-Alone Features, and Supporting Knowledge Documentation Linked to Data. <i>Lecture Notes in Computer Science</i> , 2010, , 93-104.	1.0	4
27	Jet formation in decaying two-dimensional turbulence on a rotating sphere. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2010, , 253-263.	0.1	1
28	Energy Accumulation in Easterly Circumpolar Jets Generated by Two-Dimensional Barotropic Decaying Turbulence on a Rapidly Rotating Sphere. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 4084-4097.	0.6	11
29	Rossby Waves and Jets in Two-Dimensional Decaying Turbulence on a Rotating Sphere. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 4246-4269.	0.6	10
30	Circumpolar jets emerging in two-dimensional non-divergent decaying turbulence on a rapidly rotating sphere. <i>Fluid Dynamics Research</i> , 2007, 39, 209-220.	0.6	6
31	Static stability of the Jovian atmospheres estimated from moist adiabatic profiles. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	13
32	Initial Development of Tropical Precipitation Patterns in Response to a Local Warm SST Area: An Aqua-Planet Ensemble Study. <i>Journal of the Meteorological Society of Japan</i> , 2004, 82, 1483-1504.	0.7	9
33	Topographically induced north-south asymmetry of the meridional circulation in the Martian atmosphere. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	27
34	Pattern Formation in Two-Dimensional Turbulence on a Rotating Sphere. , 2003, , 317-326.		1
35	Linear Stability of Thermal Convection in Rotating Systems with Fixed Heat Flux Boundaries. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2002, 96, 439-459.	0.4	20
36	A Numerical Study on Appearance of the Runaway Greenhouse State of a Three-Dimensional Gray Atmosphere. <i>Journals of the Atmospheric Sciences</i> , 2002, 59, 3223-3238.	0.6	27

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37	Technical approach for the design of a high-resolution spectral model on a sphere: Application to decaying turbulence. <i>Nonlinear Processes in Geophysics</i> , 2000, 7, 105-110.	0.6	8
38	Numerical modeling of Jupiter's moist convection layer. <i>Geophysical Research Letters</i> , 2000, 27, 3129-3132.	1.5	24
39	Emergence of Circumpolar Vortex in Two Dimensional Turbulence on a Rotating Sphere. <i>Fluid Mechanics and Its Applications</i> , 2000, , 179-192.	0.1	10
40	A numerical study of the Martian atmospheric convection with a two-dimensional anelastic model. <i>Earth, Planets and Space</i> , 1998, 50, 431-437.	0.9	14
41	Tropical Precipitation Patterns in Response to a Local Warm SST Area Placed at the Equator of an Aqua Planet. <i>Journal of the Meteorological Society of Japan</i> , 1998, 76, 289-305.	0.7	6
42	The effects of thermal conditions on the cell sizes of two-dimensional convection. <i>Journal of Fluid Mechanics</i> , 1994, 281, 33-50.	1.4	20
43	Simple Cumulus Models in One-Dimensional Radiative Convective Equilibrium Problems. <i>Journals of the Atmospheric Sciences</i> , 1992, 49, 1202-1220.	0.6	25
44	A Study on the "Runaway Greenhouse Effect" with a One-Dimensional Radiative Convective Equilibrium Model. <i>Journals of the Atmospheric Sciences</i> , 1992, 49, 2256-2266.	0.6	170
45	Over-reflection and shear instability in a shallow-water model. <i>Journal of Fluid Mechanics</i> , 1992, 236, 259-279.	1.4	34
46	Behavior of Cumulus Activity and the Structures of Circulations in an "Aqua Planet" Model. <i>Journal of the Meteorological Society of Japan</i> , 1991, 69, 541-561.	0.7	43
47	Behavior of Cumulus Activity and the Structures of Circulations in an "Aqua Planet" Model. <i>Journal of the Meteorological Society of Japan</i> , 1991, 69, 563-579.	0.7	33
48	Evidence of the Existence and Eastward Motion of Superclusters at the Equator. <i>Monthly Weather Review</i> , 1989, 117, 236-243.	0.5	22
49	Stable and unstable shear modes of rotating parallel flows in shallow water. <i>Journal of Fluid Mechanics</i> , 1987, 184, 477-504.	1.4	99
50	The 30-40 Day Oscillations Simulated in an "Aqua Planet" Model. <i>Journal of the Meteorological Society of Japan</i> , 1986, 64, 451-467.	0.7	204
51	Amplitude of Rossby Wavetrains on a Sphere. <i>Journal of the Meteorological Society of Japan</i> , 1984, 62, 377-387.	0.7	7