

Shigeo Yoden

List of Publications by Year in descending order

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92
papers

2,231
citations

218677

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93
all docs

93
docs citations

93
times ranked

1938
citing authors

#	ARTICLE	IF	CITATIONS
1	On the lack of stratospheric dynamical variability in low-top versions of the CMIP5 models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2494-2505.	3.3	268
2	An update of observed stratospheric temperature trends. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	260
3	Influence of the Stratospheric Quasi-Biennial Oscillation on the Madden-Julian Oscillation during Austral Summer. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 1105-1125.	1.7	95
4	Formation of zonal band structure in forced two-dimensional turbulence on a rotating sphere. <i>Physics of Fluids</i> , 1997, 9, 2081-2093.	4.0	87
5	A Numerical Experiment on Two-Dimensional Decaying Turbulence on a Rotating Sphere. <i>Journals of the Atmospheric Sciences</i> , 1993, 50, 631-644.	1.7	81
6	Bifurcation Properties of a Stratospheric Vacillation Model. <i>Journals of the Atmospheric Sciences</i> , 1987, 44, 1723-1733.	1.7	79
7	Wave-Mean Flow Interaction Associated with a QBO-like Oscillation Simulated in a Simplified GCM. <i>Journals of the Atmospheric Sciences</i> , 1998, 55, 502-526.	1.7	70
8	A Time-Lagged Ensemble Simulation on the Modulation of Precipitation over West Java in January-February 2007. <i>Monthly Weather Review</i> , 2012, 140, 601-616.	1.4	51
9	The influence of the quasi-biennial oscillation on the Madden-Julian oscillation. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 477-489.	29.7	50
10	Medium-Range Forecast Skill Variation and Blocking Transition. A Case Study. <i>Monthly Weather Review</i> , 1992, 120, 1616-1627.	1.4	46
11	Zonal Flow Vacillation and Bimodality of Baroclinic Eddy Life Cycles in a Simple Global Circulation Model. <i>Journals of the Atmospheric Sciences</i> , 1997, 54, 2349-2361.	1.7	46
12	A Composite Analysis of the Stratospheric Sudden Warmings Simulated in a Perpetual January Integration of the Berlin TSM GCM. <i>Journal of the Meteorological Society of Japan</i> , 1999, 77, 431-445.	1.8	44
13	An Illustrative Model of Seasonal and Interannual Variations of the Stratospheric Circulation. <i>Journals of the Atmospheric Sciences</i> , 1990, 47, 1845-1853.	1.7	41
14	Multiple Planetary Flow Regimes in the Southern Hemisphere. <i>Journal of the Meteorological Society of Japan</i> , 1987, 65, 571-586.	1.8	38
15	Internal Variability of the Troposphere-Stratosphere Coupled System Simulated in a Simple Global Circulation Model. <i>Journals of the Atmospheric Sciences</i> , 2001, 58, 3184-3203.	1.7	36
16	Chaotic Mixing and Transport Barriers in an Idealized Stratospheric Polar Vortex. <i>Journals of the Atmospheric Sciences</i> , 2001, 58, 2616-2629.	1.7	35
17	Interannual Variations of the Seasonal March in the Southern Hemisphere Stratosphere for 1979-2002 and Characterization of the Unprecedented Year 2002. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 567-580.	1.7	34
18	Ranking CMIP5 GCMs for Model Ensemble Selection on Regional Scale: Case Study of the Indochina Region. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 8949-8974.	3.3	32

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19	On the Approximation of Local and Linear Radiative Damping in the Middle Atmosphere. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 2070-2085.	1.7	31
20	The Influence of the Stratosphere on the Tropical Troposphere. <i>Journal of the Meteorological Society of Japan</i> , 2021, 99, 803-845.	1.8	31
21	Numerical Studies on Time Variations of the Troposphere-Stratosphere Coupled System.. <i>Journal of the Meteorological Society of Japan</i> , 2002, 80, 811-830.	1.8	30
22	Lower-Stratospheric Radiative Damping and Polar-Night Jet Oscillation Events. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 1391-1408.	1.7	30
23	A Parameter Sweep Experiment on the Effects of the Equatorial QBO on Stratospheric Sudden Warming Events. <i>Journals of the Atmospheric Sciences</i> , 2003, 60, 1380-1394.	1.7	30
24	Atmospheric Predictability. <i>Journal of the Meteorological Society of Japan</i> , 2007, 85B, 77-102.	1.8	30
25	Bifurcation Properties of a Quasi-geostrophic, Barotropic, Low-order Model with Topography. <i>Journal of the Meteorological Society of Japan</i> , 1985, 63, 535-546.	1.8	29
26	Coupled chemistry climate model simulations of stratospheric temperatures and their trends for the recent past. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	29
27	Internal Interannual Variability of the Troposphereâ€“Stratosphere Coupled System in a Simple Global Circulation Model. Part I: Parameter Sweep Experiment. <i>Journals of the Atmospheric Sciences</i> , 2002, 59, 3021-3036.	1.7	29
28	Dynamical Aspects of Stratospheric Vacillations in a Highly Truncated Model. <i>Journals of the Atmospheric Sciences</i> , 1987, 44, 3683-3695.	1.7	28
29	Dependence of Model-Simulated Heavy Rainfall on the Horizontal Resolution during the Jakarta Flood Event in January-February 2007. <i>Scientific Online Letters on the Atmosphere</i> , 2011, 7, 193-196.	1.4	28
30	An Observational History of the Direct Influence of the Stratospheric Quasi-biennial Oscillation on the Tropical and Subtropical Upper Troposphere and Lower Stratosphere. <i>Journal of the Meteorological Society of Japan</i> , 2021, 99, 239-267.	1.8	27
31	Excitation of Transient Waves by Localized Episodic Heating in the Tropics and Their Propagation into the Middle Atmosphere. <i>Journal of the Meteorological Society of Japan</i> , 1996, 74, 189-210.	1.8	25
32	Spectral anisotropy in forced two-dimensional turbulence on a rotating sphere. <i>Physics of Fluids</i> , 1997, 9, 3834-3842.	4.0	24
33	Behavior of Planetary Waves before and after Stratospheric Sudden Warming Events in Several Phases of the Equatorial QBO. <i>Journals of the Atmospheric Sciences</i> , 2006, 63, 1637-1649.	1.7	24
34	Nonlinear Interactions in a Two-layer, Quasi-geostrophic, Low-order Model with Topography. <i>Journal of the Meteorological Society of Japan</i> , 1983, 61, 1-18.	1.8	22
35	Multiple Stable States of Quasi-geostrophic Barotropic Flow over Sinusoidal Topography. <i>Journal of the Meteorological Society of Japan</i> , 1985, 63, 1031-1045.	1.8	21
36	Quasi-Periodic Variations of the Polar Vortex in the Southern Hemisphere Stratosphere Due to Waveâ€“Wave Interaction. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 2510-2527.	1.7	16

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37	Internal Interannual Variability of the Troposphere–Stratosphere Coupled System in a Simple Global Circulation Model. Part II: Millennium Integrations. <i>Journals of the Atmospheric Sciences</i> , 2002, 59, 3037-3050.	1.7	15
38	Time-lagged correlations associated with interannual variations of pre-monsoon and post-monsoon precipitation in Myanmar and the Indochina Peninsula. <i>International Journal of Climatology</i> , 2020, 40, 3792-3812.	3.5	14
39	Indications of a strong dynamical coupling between the polar and tropical regions during the sudden stratospheric warming event January 2009, based on COSMIC/FORMASAT-3 satellite temperature data. <i>Atmospheric Research</i> , 2015, 166, 60-69.	4.1	13
40	Vertical Momentum Transports Associated with Moist Convection and Gravity Waves in a Minimal Model of QBO-like Oscillation. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 2935-2957.	1.7	13
41	Nonlinear Interactions in a Two-layer, Quasi-geostrophic, Low-order Model with Topography. <i>Journal of the Meteorological Society of Japan</i> , 1983, 61, 19-35.	1.8	12
42	A Numerical Experiment on the Breakdown of a Polar Vortex due to Forced Rossby Waves. <i>Journal of the Meteorological Society of Japan</i> , 1993, 71, 59-72.	1.8	11
43	Some Dynamical Properties of Non-Linear Baroclinic Waves in a Quasi-Geostrophic Model. <i>Journal of the Meteorological Society of Japan</i> , 1979, 57, 493-504.	1.8	10
44	Rossby Waves and Jets in Two-Dimensional Decaying Turbulence on a Rotating Sphere. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 4246-4269.	1.7	10
45	Gravity wave radiation from unsteady rotational flow in an f -plane shallow water system. <i>Fluid Dynamics Research</i> , 2007, 39, 731-754.	1.3	10
46	Impact of interactive chemistry of stratospheric ozone on Southern Hemisphere paleoclimate simulation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 878-895.	3.3	10
47	Mitigation of Global Cooling by Stratospheric Chemistry Feedbacks in a Simulation of the Last Glacial Maximum. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 9378-9390.	3.3	10
48	PSTEP: project for solar–terrestrial environment prediction. <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	10
49	Chaotic Lagrangian Motion and Heat Transport in a Steady, Baroclinic Annulus Wave. <i>Journal of the Meteorological Society of Japan</i> , 1994, 72, 569-587.	1.8	9
50	Classification of simple low-order models in geophysical fluid dynamics and climate dynamics. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1997, 30, 4607-4618.	1.1	9
51	Balance regimes for the stability of a jet in an f -plane shallow water system. <i>Fluid Dynamics Research</i> , 2007, 39, 353-377.	1.3	9
52	Contributing Factors to Spatiotemporal Variations of Outgoing Longwave Radiation (OLR) in the Tropics. <i>Journal of Climate</i> , 2019, 32, 4621-4640.	3.2	9
53	A Statistical Analysis on the Effects of the Equatorial QBO on the Extratropical Stratosphere and Troposphere Based on Large Samples of Daily Data. <i>Scientific Online Letters on the Atmosphere</i> , 2005, 1, 17-20.	1.4	9
54	Non-linear Evolution of a Barotropically Unstable Circumpolar Vortex. <i>Journal of the Meteorological Society of Japan</i> , 1994, 72, 63-80.	1.8	8

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55	Propagation of Waves Excited by Localized Episodic Heating in the Tropics and Their Effect on the Middle Atmosphere. <i>Journal of the Meteorological Society of Japan</i> , 1997, 75, 641-656.	1.8	8
56	Combined effects of QBO and 11-year solar cycle on the winter hemisphere in a stratosphere-troposphere coupled system. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	8
57	Theoretical Aspects of Variability and Predictability in Weather and Climate Systems. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, 1101-1104.	3.3	8
58	Downward Influence of QBO-Like Oscillation on Moist Convection in a Two-Dimensional Minimal Model Framework. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 3635-3655.	1.7	8
59	Drought projection in the Indochina Region based on the optimal ensemble subset of CMIP5 models. <i>Climatic Change</i> , 2020, 162, 687-705.	3.6	8
60	A Further Analysis of Internal Variability in a Perpetual January Integration of a Troposphere-Stratosphere-Mesosphere GCM. <i>Journal of the Meteorological Society of Japan</i> , 1996, 74, 175-188.	1.8	7
61	Distribution functions of a spurious trend in a finite length data set with natural variability: Statistical considerations and a numerical experiment with a global circulation model. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	7
62	Asymmetrization Mechanism of Jet Profiles in Decaying \hat{v}^2 -Plane Turbulence. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 3354-3361.	1.7	7
63	A Minimal Model of QBO-Like Oscillation in a Stratosphere-Troposphere Coupled System under a Radiative-Moist Convective Quasi-Equilibrium State. <i>Scientific Online Letters on the Atmosphere</i> , 2014, 10, 112-116.	1.4	7
64	Numerical Methods of Estimating Bounds on the Non-linear Saturation of Barotropic Instability. <i>Journal of the Meteorological Society of Japan</i> , 1996, 74, 167-174.	1.8	6
65	Finite-Time Evolution of Small Perturbations Superposed on a Chaotic Solution: Experiment with an Idealized Barotropic Model. <i>Journals of the Atmospheric Sciences</i> , 2001, 58, 1066-1078.	1.7	6
66	Instabilities of a Baroclinic Zonal Flow in the Presence of Surface Topography. <i>Journal of the Meteorological Society of Japan</i> , 1983, 61, 789-804.	1.8	5
67	The effects of centrifugal force on the stability of axisymmetric viscous flow in a rotating annulus. <i>Journal of Fluid Mechanics</i> , 1991, 229, 471.	3.4	5
68	Non-Linear Aspects of a Barotropically Unstable Polar Vortex in a Forced-Dissipative System. <i>Journal of the Meteorological Society of Japan</i> , 1995, 73, 201-212.	1.8	5
69	Classification of Polar-Night Jet Oscillations and Their Relationship to Fast and Slow Variations in a Global Mechanistic Circulation Model of the Stratosphere and Troposphere. <i>Journal of Climate</i> , 2010, 23, 6438-6444.	3.2	5
70	Month-to-Month Predictability Variations of the Winter-Time Stratospheric Polar Vortex in an Operational One-month Ensemble Prediction System. <i>Journal of the Meteorological Society of Japan</i> , 2014, 92, 543-558.	1.8	5
71	Detection of Solar Cycle Signal in the Tropospheric Temperature using COSMIC Data. <i>Current Science</i> , 2018, 115, 2232.	0.8	5
72	A Parameter-Sweep Experiment on the Annular Variability with a Simple Global Circulation Model.. <i>Journal of the Meteorological Society of Japan</i> , 2002, 80, 1077-1088.	1.8	5

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73	Steady Axi-symmetric Flow due to Differential Heating in a Rotating Annulus and Its Dependence on Experimental Parameters. <i>Journal of the Meteorological Society of Japan</i> , 1992, 70, 1005-1017.	1.8	4
74	A Numerical Study on Regime Transitions of the Rotating Annulus Flow with a Semi-Spectral Model. <i>Journal of the Meteorological Society of Japan</i> , 1993, 71, 491-501.	1.8	4
75	Predictability Variation and Quasi-Stationary States in Simple Non-linear Systems. <i>Journal of the Meteorological Society of Japan</i> , 1997, 75, 557-568.	1.8	4
76	Interannual variability of the 4-day wave and isentropic mixing inside the polar vortex in midwinter of the Southern Hemisphere upper stratosphere. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 23-1.	3.3	4
77	Comparing Simulated Size Distributions of Precipitation Systems at Different Model Resolution. <i>Scientific Online Letters on the Atmosphere</i> , 2017, 13, 130-134.	1.4	4
78	Theoretical Estimation of the Superrotation Strength in an Idealized Quasi-Axisymmetric Model of Planetary Atmospheres. <i>Journal of the Meteorological Society of Japan</i> , 2013, 91, 119-141.	1.8	4
79	QBO-Like Oscillation in a Three-Dimensional Minimal Model Framework of the Stratosphere-Troposphere Coupled System. <i>Scientific Online Letters on the Atmosphere</i> , 2019, 15, 62-67.	1.4	4
80	Modeling the Transport and Deposition of ^{10}Be Produced by the Strongest Solar Proton Event During the Holocene. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	4
81	Low-Frequency Variations and Optimal Excitation in a Simple Barotropic Model with Zonal Asymmetry. <i>Journal of the Meteorological Society of Japan</i> , 1998, 76, 561-580.	1.8	3
82	Comparison of stable isotope time series of stalagmite and meteorological data from West Java, Indonesia. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2010, 293, 90-97.	2.3	3
83	Regime Diagrams of Solutions in an Idealized Quasi-Axisymmetric Model for Superrotation of Planetary Atmospheres. <i>Journal of the Meteorological Society of Japan</i> , 2015, 93, 309-326.	1.8	3
84	Quasi-Periodic Energy Variation in a Zonal Flow-Baroclinic Wave Interaction Model. <i>Journal of the Meteorological Society of Japan</i> , 1981, 59, 291-302.	1.8	2
85	Numerical Experiments on the Layered Structures in the Mid-Troposphere over the Equatorial Pacific. <i>Scientific Online Letters on the Atmosphere</i> , 2005, 1, 69-72.	1.4	2
86	A Parameter Sweep Experiment on Quasiperiodic Variations of a Polar Vortex due to Wave-Wave Interaction in a Spherical Barotropic Model. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 4069-4083.	1.7	2
87	A Parameter Sweep Experiment on Topographic Effects on the Annular Variability. <i>Journal of the Meteorological Society of Japan</i> , 2004, 82, 879-893.	1.8	1
88	Temporal-Spatial Distribution of Thin Moist Layers in the Midtroposphere over the Tropical Eastern Pacific. <i>Journal of Climate</i> , 2009, 22, 5102-5114.	3.2	0
89	A New Graphical Method to Diagnose the Impacts of Model Changes on Climate Sensitivity. <i>Journal of the Meteorological Society of Japan</i> , 2021, 99, 437-448.	1.8	0
90	Minimal Model Studies of Stratosphere-Troposphere Two-way Dynamical Coupling in the Tropics through Organizations of Moist Convective Systems. <i>World Scientific Series on Asia-Pacific Weather and Climate</i> , 2021, , 209-218.	0.2	0

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91	Time-lagged correlations of pre-monsoon precipitation in the Indochina Peninsula confirmed in a large ensemble simulation dataset. International Journal of Climatology, 0, , .	3.5	0
92	Axisymmetric/non-axisymmetric structures of a typhoon in a numerical experiment. Wind Engineers JAWE, 2005, 2005, 11-14.	0.1	0