

Manoj Joshi

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

7,737
citations

70961

41
h-index

54797

84
g-index

117
all docs

117
docs citations

117
times ranked

8971
citing authors

#	ARTICLE	IF	CITATIONS
1	Development and evaluation of an Earth-System model – HadGEM2. <i>Geoscientific Model Development</i> , 2011, 4, 1051-1075.	1.3	1,141
2	The HadGEM2 family of Met Office Unified Model climate configurations. <i>Geoscientific Model Development</i> , 2011, 4, 723-757.	1.3	765
3	The New Hadley Centre Climate Model (HadGEM1): Evaluation of Coupled Simulations. <i>Journal of Climate</i> , 2006, 19, 1327-1353.	1.2	424
4	Simulations of the Atmospheres of Synchronously Rotating Terrestrial Planets Orbiting M Dwarfs: Conditions for Atmospheric Collapse and the Implications for Habitability. <i>Icarus</i> , 1997, 129, 450-465.	1.1	333
5	A Reappraisal of The Habitability of Planets around M Dwarf Stars. <i>Astrobiology</i> , 2007, 7, 30-65.	1.5	286
6	Mechanisms for the land/sea warming contrast exhibited by simulations of climate change. <i>Climate Dynamics</i> , 2008, 30, 455-465.	1.7	268
7	Estimating Changes in Global Temperature since the Preindustrial Period. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 1841-1856.	1.7	238
8	The Structure of the Upper Atmosphere of Mars: In Situ Accelerometer Measurements from Mars Global Surveyor. <i>Science</i> , 1998, 279, 1672-1676.	6.0	234
9	General circulation model simulations of the Mars Pathfinder atmospheric structure investigation/meteorology data. <i>Journal of Geophysical Research</i> , 1999, 104, 8957-8974.	3.3	221
10	Stratospheric Communication of El Niño Teleconnections to European Winter. <i>Journal of Climate</i> , 2009, 22, 4083-4096.	1.2	194
11	Climate Model Studies of Synchronously Rotating Planets. <i>Astrobiology</i> , 2003, 3, 415-427.	1.5	178
12	Keeping global warming within 1.5 °C constrains emergence of aridification. <i>Nature Climate Change</i> , 2018, 8, 70-74.	8.1	158
13	Projections of when temperature change will exceed 2 °C above pre-industrial levels. <i>Nature Climate Change</i> , 2011, 1, 407-412.	8.1	151
14	The Effect of Host Star Spectral Energy Distribution and Ice-Albedo Feedback on the Climate of Extrasolar Planets. <i>Astrobiology</i> , 2013, 13, 715-739.	1.5	134
15	A comparison of climate response to different radiative forcings in three general circulation models: towards an improved metric of climate change. <i>Climate Dynamics</i> , 2003, 20, 843-854.	1.7	131
16	A large ozone-circulation feedback and its implications for global warming assessments. <i>Nature Climate Change</i> , 2015, 5, 41-45.	8.1	115
17	An alternative to radiative forcing for estimating the relative importance of climate change mechanisms. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	114
18	Poorest countries experience earlier anthropogenic emergence of daily temperature extremes. <i>Environmental Research Letters</i> , 2016, 11, 055007.	2.2	108

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19	Going beyond two degrees? The risks and opportunities of alternative options. <i>Climate Policy</i> , 2013, 13, 751-769.	2.6	107
20	Demarcating Circulation Regimes of Synchronously Rotating Terrestrial Planets within the Habitable Zone. <i>Astrophysical Journal</i> , 2018, 852, 67.	1.6	105
21	Intensification of winter transatlantic aviation turbulence in response to climate change. <i>Nature Climate Change</i> , 2013, 3, 644-648.	8.1	102
22	Suppression of the Water Ice and Snow Albedo Feedback on Planets Orbiting Red Dwarf Stars and the Subsequent Widening of the Habitable Zone. <i>Astrobiology</i> , 2012, 12, 3-8.	1.5	99
23	Response of climate to regional emissions of ozone precursors: sensitivities and warming potentials. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2005, 57, 283-304.	0.8	88
24	Western boundary currents in the Martian atmosphere: Numerical simulations and observational evidence. <i>Journal of Geophysical Research</i> , 1995, 100, 5485.	3.3	81
25	Habitability of planets around red dwarf stars. <i>Origins of Life and Evolution of Biospheres</i> , 1999, 29, 405-424.	0.8	76
26	Observed Emergence of the Climate Change Signal: From the Familiar to the Unknown. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086259.	1.5	76
27	Transmission of climate risks across sectors and borders. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170301.	1.6	74
28	SPECTRUM-DRIVEN PLANETARY DEGLACIATION DUE TO INCREASES IN STELLAR LUMINOSITY. <i>Astrophysical Journal Letters</i> , 2014, 785, L9.	3.0	72
29	The Extreme Positive Indian Ocean Dipole of 2019 and Associated Indian Summer Monsoon Rainfall Response. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091497.	1.5	64
30	Uncertainties in the timing of unprecedented climates. <i>Nature</i> , 2014, 511, E3-E5.	13.7	63
31	The Relationship between Landâ€™Ocean Surface Temperature Contrast and Radiative Forcing. <i>Journal of Climate</i> , 2011, 24, 3239-3256.	1.2	60
32	A dynamical framework for the origin of the diagonal South Pacific and South Atlantic Convergence Zones. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 1997-2010.	1.0	60
33	Arctic Sea Ice Loss in Different Regions Leads to Contrasting Northern Hemisphere Impacts. <i>Geophysical Research Letters</i> , 2018, 45, 945-954.	1.5	58
34	Population-based emergence of unfamiliar climates. <i>Nature Climate Change</i> , 2017, 7, 407-411.	8.1	57
35	A GCM Study of Volcanic Eruptions as a Cause of Increased Stratospheric Water Vapor. <i>Journal of Climate</i> , 2003, 16, 3525-3534.	1.2	53
36	Global Response of Clearâ€™Air Turbulence to Climate Change. <i>Geophysical Research Letters</i> , 2017, 44, 9976-9984.	1.5	51

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37	The Circulation Response to Idealized Changes in Stratospheric Water Vapor. <i>Journal of Climate</i> , 2013, 26, 545-561.	1.2	50
38	The Role Of Halocarbons In The Climate Change Of The Troposphere And Stratosphere. <i>Climatic Change</i> , 2005, 71, 249-266.	1.7	48
39	The Importance of Planetary Rotation Period for Ocean Heat Transport. <i>Astrobiology</i> , 2014, 14, 645-650.	1.5	47
40	Importance of ocean salinity for climate and habitability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4278-4283.	3.3	47
41	BoBBLE: Ocean–Atmosphere Interaction and Its Impact on the South Asian Monsoon. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 1569-1587.	1.7	45
42	The climatic effects of the direct injection of water vapour into the stratosphere by large volcanic eruptions. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 6109-6118.	1.9	44
43	The temperature response to stratospheric water vapour changes. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2011, 137, 1070-1082.	1.0	44
44	An explanation for the difference between twentieth and twenty-first century land–sea warming ratio in climate models. <i>Climate Dynamics</i> , 2013, 41, 1853-1869.	1.7	43
45	Dependence of the land–sea contrast in surface climate response on the nature of the forcing. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	39
46	Last glacial maximum radiative forcing from mineral dust aerosols in an Earth system model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 8186-8205.	1.2	35
47	Gravity wave drag in three-dimensional atmospheric models of Mars. <i>Journal of Geophysical Research</i> , 1995, 100, 21235.	3.3	34
48	Probabilistic climate forecasts and inductive problems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007, 365, 1971-1992.	1.6	34
49	The effects of different sudden stratospheric warming types on the ocean. <i>Geophysical Research Letters</i> , 2014, 41, 7739-7745.	1.5	34
50	Why the South Pacific Convergence Zone is diagonal. <i>Climate Dynamics</i> , 2016, 46, 1683-1698.	1.7	34
51	Southern Ocean deep convection in global climate models: A driver for variability of subpolar gyres and Drake Passage transport on decadal timescales. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 3905-3925.	1.0	33
52	On the influence of stratospheric water vapor changes on the tropospheric circulation. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	32
53	Low-level jets in the NASA Ames Mars general circulation model. <i>Journal of Geophysical Research</i> , 1997, 102, 6511-6523.	3.3	28
54	The potential impact of changes in lower stratospheric water vapour on stratospheric temperatures over the past 30 years. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014, 140, 2176-2185.	1.0	26

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55	The effect of Arabian Sea optical properties on SST biases and the South Asian summer monsoon in a coupled GCM. <i>Climate Dynamics</i> , 2012, 39, 811-826.	1.7	25
56	Direct and ozone-mediated forcing of the Southern Annular Mode by greenhouse gases. <i>Geophysical Research Letters</i> , 2014, 41, 9050-9057.	1.5	24
57	Western boundary currents in the atmosphere of Mars. <i>Nature</i> , 1994, 367, 548-551.	13.7	23
58	Meteorological predictions for the Mars Pathfinder lander. <i>Journal of Geophysical Research</i> , 1997, 102, 13301-13311.	3.3	23
59	Stratospheric water vapour and high climate sensitivity in a version of the HadSM3 climate model. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7161-7167.	1.9	23
60	U.K. Climate Projections: Summer Daytime and Nighttime Urban Heat Island Changes in England's Major Cities. <i>Journal of Climate</i> , 2020, 33, 9015-9030.	1.2	22
61	An interpretation of Martian thermospheric waves based on analysis of a general circulation model. <i>Geophysical Research Letters</i> , 2000, 27, 613-616.	1.5	21
62	Improved Climate Simulations through a Stochastic Parameterization of Ocean Eddies. <i>Journal of Climate</i> , 2016, 29, 8763-8781.	1.2	21
63	Inferring convective responses to El Niño with atmospheric electricity measurements at Shetland. <i>Environmental Research Letters</i> , 2011, 6, 044028.	2.2	20
64	Mineral dust increases the habitability of terrestrial planets but confounds biomarker detection. <i>Nature Communications</i> , 2020, 11, 2731.	5.8	20
65	The use of the land-sea warming contrast under climate change to improve impact metrics. <i>Climatic Change</i> , 2013, 117, 951-960.	1.7	19
66	Wetter then drier in some tropical areas. <i>Nature Climate Change</i> , 2014, 4, 646-647.	8.1	19
67	Solar signal propagation: The role of gravity waves and stratospheric sudden warmings. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	14
68	IGCM4: a fast, parallel and flexible intermediate climate model. <i>Geoscientific Model Development</i> , 2015, 8, 1157-1167.	1.3	14
69	Identifying teleconnections and multidecadal variability of East Asian surface temperature during the last millennium in CMIP5 simulations. <i>Climate of the Past</i> , 2019, 15, 1825-1844.	1.3	14
70	Earth's Polar Night Boundary Layer as an Analog for Dark Side Inversions on Synchronously Rotating Terrestrial Exoplanets. <i>Astrophysical Journal Letters</i> , 2020, 892, L33.	3.0	14
71	Different atmospheric moisture divergence responses to extreme and moderate El Niños. <i>Climate Dynamics</i> , 2016, 47, 393-410.	1.7	13
72	Comparison of land-ocean warming ratios in updated observed records and CMIP5 climate models. <i>Environmental Research Letters</i> , 2018, 13, 114011.	2.2	13

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73	Seasonal cycles enhance disparities between low- and high-income countries in exposure to monthly temperature emergence with future warming. <i>Environmental Research Letters</i> , 2017, 12, 114039.	2.2	12
74	Emissions and emergence: a new index comparing relative contributions to climate change with relative climatic consequences. <i>Environmental Research Letters</i> , 2019, 14, 084009.	2.2	12
75	The Effect of Land Fraction and Host Star Spectral Energy Distribution on the Planetary Albedo of Terrestrial Worlds. <i>Astrophysical Journal</i> , 2019, 887, 29.	1.6	12
76	A comparison of MGS Phase 1 aerobraking radio occultation data and the NASA Ames Mars GCM. <i>Journal of Geophysical Research</i> , 2000, 105, 17601-17615.	3.3	11
77	Nonlinear response of Asian summer monsoon precipitation to emission reductions in South and East Asia. <i>Environmental Research Letters</i> , 2022, 17, 014005.	2.2	11
78	The influence of diabatic heating in the South Pacific Convergence Zone on Rossby wave propagation and the mean flow. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 901-910.	1.0	10
79	The Influence of Atlantic Variability on Asian Summer Climate Is Sensitive to the Pattern of the Sea Surface Temperature Anomaly. <i>Journal of Climate</i> , 2020, 33, 7567-7590.	1.2	10
80	Recent United Kingdom and global temperature variations. <i>Weather</i> , 2017, 72, 323-329.	0.6	9
81	Global warming and ocean stratification: A potential result of large extraterrestrial impacts. <i>Geophysical Research Letters</i> , 2017, 44, 3841-3848.	1.5	8
82	The effect of spatial variations in unresolved topography on gravity wave drag in the Martian atmosphere. <i>Geophysical Research Letters</i> , 1996, 23, 2927-2930.	1.5	7
83	A Comparison of Two Dust Uplift Schemes within the Same General Circulation Model. <i>Advances in Meteorology</i> , 2012, 2012, 1-13.	0.6	7
84	Is the mean Venusian tropospheric circulation unsteady?. <i>Geophysical Research Letters</i> , 2002, 29, 6-1-6-4.	1.5	6
85	The development of a new dust uplift scheme in the Met Office Unified Model. <i>Meteorological Applications</i> , 2009, 16, 445-460.	0.9	5
86	Could El Niño Southern Oscillation affect the results of the Ashes series in Australia?. <i>Weather</i> , 2009, 64, 178-180.	0.6	4
87	Clear-Air Turbulence in a Changing Climate. , 2016, , 465-480.		4
88	A Capacitor Discharge Mechanism to Explain the Timing of Orogeny-Related Global Glaciations. <i>Geophysical Research Letters</i> , 2019, 46, 8347-8354.	1.5	4
89	Spatial and temporal variability of solar penetration depths in the Bay of Bengal and its impact on sea surface temperature (SST) during the summer monsoon. <i>Ocean Science</i> , 2021, 17, 871-890.	1.3	4
90	The effect of seasonally and spatially varying chlorophyll on Bay of Bengal surface ocean properties and the South Asian monsoon. <i>Weather and Climate Dynamics</i> , 2020, 1, 635-655.	1.2	4

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91	Seasonal variations in low level flow in the NASA-Ames Mars GCM. <i>Advances in Space Research</i> , 1997, 19, 1261-1265.	1.2	3
92	The role of potential vorticity anomalies in the Somali Jet on Indian Summer Monsoon Intraseasonal Variability. <i>Climate Dynamics</i> , 2018, 50, 4149-4169.	1.7	3
93	FORTE 2.0: a fast, parallel and flexible coupled climate model. <i>Geoscientific Model Development</i> , 2021, 14, 275-293.	1.3	3
94	An investigation into linearity with cumulative emissions of the climate and carbon cycle response in HadCM3LC. <i>Environmental Research Letters</i> , 2016, 11, 065003.	2.2	2
95	Response of the Asian summer Monsoons to a high-latitude thermal forcing: mechanisms and nonlinearities. <i>Climate Dynamics</i> , 2020, 54, 3927-3944.	1.7	2
96	Stratospheric modulation of the Boreal response to Pliocene tropical Pacific sea surface temperatures. <i>Earth and Planetary Science Letters</i> , 2013, 365, 1-6.	1.8	1
97	The Extratropical Linear Step Response to Tropical Precipitation Anomalies and Its Use in Constraining Projected Circulation Changes under Climate Warming. <i>Journal of Climate</i> , 2020, 33, 7217-7231.	1.2	1