

Joanna D Haigh

List of Publications by Year in descending order

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118
papers

7,092
citations

94433

37
h-index

60623

81
g-index

133
all docs

133
docs citations

133
times ranked

5063
citing authors

#	ARTICLE	IF	CITATIONS
1	Comments on "Global and Regional Entropy Production by Radiation Estimated from Satellite Observations", <i>Journal of Climate</i> , 2021, 34, 3721-3728.	3.2	2
2	An unsupervised learning approach to identifying blocking events: the case of European summer. <i>Weather and Climate Dynamics</i> , 2021, 2, 581-608.	3.5	4
3	Similar patterns of tropical precipitation and circulation changes under solar and greenhouse gas forcing. <i>Environmental Research Letters</i> , 2021, 16, 104045.	5.2	2
4	Causal networks for climate model evaluation and constrained projections. <i>Nature Communications</i> , 2020, 11, 1415.	12.8	55
5	Tropical Pacific climate variability under solar geoengineering: impacts on ENSO extremes. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 15461-15485.	4.9	9
6	Entropy Production Rates of the Climate. <i>Journals of the Atmospheric Sciences</i> , 2020, 77, 3551-3566.	1.7	8
7	The Upper Stratospheric Solar Cycle Ozone Response. <i>Geophysical Research Letters</i> , 2019, 46, 1831-1841.	4.0	13
8	Slowdown of the Walker circulation at solar cycle maximum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 7186-7191.	7.1	42
9	Evidence for a continuous decline in lower stratospheric ozone offsetting ozone layer recovery. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1379-1394.	4.9	214
10	Using machine learning to build temperature-based ozone parameterizations for climate sensitivity simulations. <i>Environmental Research Letters</i> , 2018, 13, 104016.	5.2	48
11	Reconciling differences in stratospheric ozone composites. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 12269-12302.	4.9	35
12	Evaluation of simulated photolysis rates and their response to solar irradiance variability. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6066-6084.	3.3	27
13	On the ambiguous nature of the 11% _o year solar cycle signal in upper stratospheric ozone. <i>Geophysical Research Letters</i> , 2016, 43, 7241-7249.	4.0	43
14	The effects of increasing humidity on heat transport by extratropical waves. <i>Geophysical Research Letters</i> , 2016, 43, 8314-8321.	4.0	5
15	High solar cycle spectral variations inconsistent with stratospheric ozone observations. <i>Nature Geoscience</i> , 2016, 9, 206-209.	12.9	45
16	A New SATIRE-S Spectral Solar Irradiance Reconstruction for Solar Cycles 21-23 and Its Implications for Stratospheric Ozone*. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 4086-4101.	1.7	47
17	Impact of EOS MLS ozone data on medium-extended range ensemble weather forecasts. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 9253-9266.	3.3	25
18	Assessing the relationship between spectral solar irradiance and stratospheric ozone using Bayesian inference. <i>Journal of Space Weather and Space Climate</i> , 2014, 4, A25.	3.3	7

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19	Solar Irradiance Variability and Climate. Annual Review of Astronomy and Astrophysics, 2013, 51, 311-351.	24.3	231
20	The greenhouse effect and carbon dioxide. Weather, 2013, 68, 100-105.	0.7	57
21	Stratospheric O ₃ changes during 2001–2010: the small role of solar flux variations in a chemical transport model. Atmospheric Chemistry and Physics, 2013, 13, 10113-10123.	4.9	25
22	Reconciliation of modeled climate responses to spectral solar forcing. Journal of Geophysical Research D: Atmospheres, 2013, 118, 6281-6289.	3.3	5
23	Strong Dynamical Modulation of the Cooling of the Polar Stratosphere Associated with the Antarctic Ozone Hole. Journal of Climate, 2012, 26, 662-668.	3.2	18
24	Solar Cycle Signals in the Pacific and the Issue of Timings. Journals of the Atmospheric Sciences, 2012, 69, 1446-1451.	1.7	45
25	A Mechanism for the Effect of Tropospheric Jet Structure on the Annular Mode–Like Response to Stratospheric Forcing. Journals of the Atmospheric Sciences, 2012, 69, 2152-2170.	1.7	22
26	Possible Dynamical Mechanisms for Southern Hemisphere Climate Change due to the Ozone Hole. Journals of the Atmospheric Sciences, 2012, 69, 2917-2932.	1.7	30
27	Solar forcing of winter climate variability in the Northern Hemisphere. Nature Geoscience, 2011, 4, 753-757.	12.9	312
28	The influence of solar variability and the quasi-biennial oscillation on lower atmospheric temperatures and sea level pressure. Atmospheric Chemistry and Physics, 2011, 11, 11679-11687.	4.9	27
29	Solar response in tropical stratospheric ozone: a 3-D chemical transport model study using ERA reanalyses. Atmospheric Chemistry and Physics, 2011, 11, 12773-12786.	4.9	27
30	Solar cycle signals in sea level pressure and sea surface temperature. Atmospheric Chemistry and Physics, 2010, 10, 3147-3153.	4.9	115
31	An influence of solar spectral variations on radiative forcing of climate. Nature, 2010, 467, 696-699.	27.8	242
32	Top-down solar modulation of climate: evidence for centennial-scale change. Environmental Research Letters, 2010, 5, 034008.	5.2	42
33	MEETING SUMMARIES. Bulletin of the American Meteorological Society, 2010, 91, 1087-1100.	3.3	0
34	SOLAR INFLUENCES ON CLIMATE. Reviews of Geophysics, 2010, 48, .	23.0	1,014
35	The Impact of the State of the Troposphere on the Response to Stratospheric Heating in a Simplified GCM. Journal of Climate, 2010, 23, 6166-6185.	3.2	22
36	Solar variability and the stratosphere. Geophysical Monograph Series, 2010, , 173-187.	0.1	5

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37	The Role of Eddies in Driving the Tropospheric Response to Stratospheric Heating Perturbations. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 1347-1365.	1.7	179
38	The Final Warming Date of the Antarctic Polar Vortex and Influences on its Interannual Variability. <i>Journal of Climate</i> , 2009, 22, 5809-5819.	3.2	56
39	Annular Variability and Eddy-Zonal Flow Interactions in a Simplified Atmospheric GCM. Part I: Characterization of High- and Low-Frequency Behavior. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 3075-3094.	1.7	21
40	RAE wranglings provoke debate. <i>Physics World</i> , 2009, 22, 19-19.	0.0	0
41	Three-dimensional radiative transfer in midlatitude cirrus clouds. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2008, 134, 199-215.	2.7	9
42	Erratum to "Three-dimensional radiative transfer in midlatitude cirrus clouds". <i>Quarterly Journal of the Royal Meteorological Society</i> , 2008, 134, 1065-1066.	2.7	0
43	Influence of the prescribed solar spectrum on calculations of atmospheric temperature. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	36
44	The Sun and the Earth's Climate. <i>Living Reviews in Solar Physics</i> , 2007, 4, 1.	22.0	181
45	Infrared properties of cirrus clouds in climate models. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007, 133, 273-282.	2.7	11
46	Influences of ozone depletion, the solar cycle and the QBO on the Southern Annular Mode. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007, 133, 1855-1864.	2.7	59
47	Solar Influences on Dynamical Coupling Between the Stratosphere and Troposphere. <i>Space Science Reviews</i> , 2007, 125, 331-344.	8.1	66
48	Solar Variability and Climate. <i>Astrophysics and Space Science Library</i> , 2007, , 65-81.	2.7	2
49	Solar influences on polar modes of variability. <i>Meteorologische Zeitschrift</i> , 2006, 15, 371-378.	1.0	35
50	Fundamentals of pair diffusion in kinematic simulations of turbulence. <i>Physical Review E</i> , 2006, 74, 036309.	2.1	31
51	Solar Influences on Dynamical Coupling Between the Stratosphere and Troposphere. , 2006, , 331-344.		1
52	The Response of Tropospheric Circulation to Perturbations in Lower-Stratospheric Temperature. <i>Journal of Climate</i> , 2005, 18, 3672-3685.	3.2	223
53	The impact of solar variability on the middle atmosphere in present-day and pre-industrial atmospheres. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2005, 67, 241-249.	1.6	7
54	One-particle two-time diffusion in three-dimensional homogeneous isotropic turbulence. <i>Physics of Fluids</i> , 2005, 17, 035104.	4.0	11

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55	Acceleration statistics as measures of statistical persistence of streamlines in isotropic turbulence. <i>Physical Review E</i> , 2005, 71, 015301.	2.1	30
56	Assessment of the impact of SF6 and PFC reservoir tracers on global warming, the AEOLOS study. <i>Journal of Integrative Environmental Sciences</i> , 2005, 2, 263-272.	0.8	1
57	A finite element-spherical harmonics model for radiative transfer in inhomogeneous clouds. <i>Atmospheric Research</i> , 2004, 72, 197-221.	4.1	7
58	A finite element-spherical harmonics model for radiative transfer in inhomogeneous clouds. <i>Atmospheric Research</i> , 2004, 72, 223-237.	4.1	3
59	Fundamentals of the Earth's Atmosphere and Climate. <i>Geophysical Monograph Series</i> , 2004, , 65-81.	0.1	4
60	A comparison of model-simulated trends in stratospheric temperatures. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2003, 129, 1565-1588.	2.7	189
61	The ISSWG line-by-line inter-comparison experiment. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2003, 77, 433-453.	2.3	62
62	Traceable radiometry underpinning terrestrial- and helio-studies (TRUTHS). <i>Advances in Space Research</i> , 2003, 32, 2253-2261.	2.6	33
63	Shortwave radiative forcing by stratospheric water vapor. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	3
64	The effects of solar variability on the Earth's climate. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2003, 361, 95-111.	3.4	223
65	GRIPS Solar Experiments Intercomparison Project: Initial Results. <i>Papers in Meteorology and Geophysics</i> , 2003, 54, 71-90.	0.9	38
66	Note on 'The impact of new water vapour spectral line parameters on the calculation of atmospheric absorption'. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2002, 128, 1387-1388.	2.7	10
67	Radiative forcing of climate change. <i>Weather</i> , 2002, 57, 278-283.	0.7	226
68	Radiative forcing due to trends in stratospheric water vapour. <i>Geophysical Research Letters</i> , 2001, 28, 179-182.	4.0	50
69	CLIMATE: Climate Variability and the Influence of the Sun. <i>Science</i> , 2001, 294, 2109-2111.	12.6	85
70	<title>Detecting thin cirrus clouds in high-spectral-resolution infrared data</title>. , 2001, 4168, 56.		2
71	Model simulations of the impact of the 27-day solar rotation period on stratospheric ozone and temperature. <i>Advances in Space Research</i> , 2001, 27, 1933-1942.	2.6	24
72	The impact of new water vapour spectral line parameters on the calculation of atmospheric absorption. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2001, 127, 1615-1626.	2.7	23

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73	The impact of new water vapour spectral line parameters on the calculation of atmospheric absorption. Quarterly Journal of the Royal Meteorological Society, 2001, 127, 1615-1626.	2.7	2
74	Report of RMS Discussion Meeting 21 June 2000: Some aspects of the general circulation of the atmosphere - Presidential Address. Atmospheric Science Letters, 2000, 1, 151-152.	1.9	1
75	The Effect of Solar UV Irradiance Variations on the Earth's Atmosphere. Space Science Reviews, 2000, 94, 199-214.	8.1	82
76	Solar variability and climate. Weather, 2000, 55, 399-407.	0.7	38
77	Seasonal trends in stratospheric water vapour. Geophysical Research Letters, 2000, 27, 1687-1690.	4.0	28
78	The Effect of Solar UV Irradiance Variations on the Earth's Atmosphere. Space Sciences Series of ISSI, 2000, , 199-214.	0.0	5
79	The sensitivity of long-wave radiation fields and the response of a GCM to water vapour continuum absorption. Quarterly Journal of the Royal Meteorological Society, 1999, 125, 1383-1406.	2.7	1
80	A GCM study of climate change in response to the 11-year solar cycle. Quarterly Journal of the Royal Meteorological Society, 1999, 125, 871-892.	2.7	169
81	Cirrus cloud top-of-atmosphere radiance spectra in the thermal infrared. Journal of Quantitative Spectroscopy and Radiative Transfer, 1999, 63, 487-498.	2.3	16
82	Modelling the impact of solar variability on climate. Journal of Atmospheric and Solar-Terrestrial Physics, 1999, 61, 63-72.	1.6	71
83	The contribution of unknown weak water vapor lines to the absorption of solar radiation. Geophysical Research Letters, 1999, 26, 3609-3612.	4.0	32
84	Some doubts concerning a link between cosmic ray fluxes and global cloudiness. Geophysical Research Letters, 1999, 26, 863-865.	4.0	77
85	Effect of Cloud Vertical Inhomogeneity on the Retrieval of Cirrus Cloud Temperature and Infrared Optical Depth Using the ASTR. Journals of the Atmospheric Sciences, 1999, 56, 2601-2612.	1.7	2
86	The sensitivity of long-wave radiation fields and the response of a GCM to water-vapour continuum absorption. Quarterly Journal of the Royal Meteorological Society, 1999, 125, 1383-1406.	2.7	5
87	Reply [to "Comment on "Climate forcing by stratospheric ozone depletion Calculated from observed temperature trends" by Zhong et al.]. Geophysical Research Letters, 1998, 25, 665-665.	4.0	1
88	Effect of cirrus clouds in the infrared (4 to 100 μ m): high-spectral-resolution simulations. , 1998, , .		1
89	<title>Atmospheric correction over case 2 waters using an iterative fitting algorithm including relative humidity</title>. , 1997, , .		2
90	Simulated reflectance technique for ATM image enhancement. International Journal of Remote Sensing, 1997, 18, 243-254.	2.9	10

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91	Atmospheric correction over case 2 waters with an iterative fitting algorithm: relative humidity effects. <i>Applied Optics</i> , 1997, 36, 9448.	2.1	6
92	Retrieving land surface reflectances using the ATSR-2: A theoretical study. <i>Journal of Geophysical Research</i> , 1997, 102, 17163-17171.	3.3	4
93	Atmospheric correction over case 2 waters with an iterative fitting algorithm. <i>Applied Optics</i> , 1996, 35, 5443.	2.1	25
94	A tropospheric ozone-lightning climate feedback. <i>Geophysical Research Letters</i> , 1996, 23, 1037-1040.	4.0	41
95	Retrieval of aerosol optical thickness over land using the ATSR-2 Dual-Look Satellite Radiometer. <i>Geophysical Research Letters</i> , 1996, 23, 351-354.	4.0	38
96	The role of microphysical and chemical processes in prolonging the climate forcing of the Toba Eruption. <i>Geophysical Research Letters</i> , 1996, 23, 2669-2672.	4.0	87
97	Climate forcing by stratospheric ozone depletion calculated from observed temperature trends. <i>Geophysical Research Letters</i> , 1996, 23, 3183-3186.	4.0	17
98	The Impact of Solar Variability on Climate. <i>Science</i> , 1996, 272, 981-984.	12.6	630
99	<title>Retrieval of cirrus cloud temperature and infrared optical depth using the Along-Track Scanning Radiometer</title>. , 1996, 2961, 2.		0
100	Infrared heating rates in the stratosphere due to volcanic sulphur dioxide. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1996, 122, 1459-1466.	2.7	7
101	Improved Broadband Emissivity Parameterization for Water Vapor Cooling Rate Calculations. <i>Journals of the Atmospheric Sciences</i> , 1995, 52, 124-138.	1.7	57
102	The retrieval of total optical depth and effective droplet radius of clouds from solar reflection measurements using the Along Track Scanning Radiometer-2 (ATSR-2). <i>Geophysical Research Letters</i> , 1995, 22, 695-698.	4.0	3
103	An approximation to improve accuracy in the derivation of surface reflectances from multi-look satellite radiometers. <i>Geophysical Research Letters</i> , 1995, 22, 1693-1696.	4.0	85
104	A three-dimensional feature space iterative clustering method for multi-spectral image classification. <i>International Journal of Remote Sensing</i> , 1994, 15, 633-644.	2.9	4
105	The role of stratospheric ozone in modulating the solar radiative forcing of climate. <i>Nature</i> , 1994, 370, 544-546.	27.8	399
106	First results from a 3-dimensional middle atmosphere model. <i>Advances in Space Research</i> , 1993, 13, 363-372.	2.6	8
107	Greenhouse gases in the stratosphere. <i>Journal of Geophysical Research</i> , 1993, 98, 2995-3004.	3.3	6
108	A Study of the Radiative Dissipation of Planetary Waves Using Satellite Data. <i>Journals of the Atmospheric Sciences</i> , 1992, 49, 1304-1317.	1.7	8

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109	An important uncertainty in coupled chlorine-carbon dioxide studies of atmospheric ozone modification. <i>Nature</i> , 1987, 329, 616-619.	27.8	24
110	A fast method for calculating scale-dependent photochemical acceleration in dynamical models of the stratosphere. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1985, 111, 1027-1038.	2.7	2
111	A fast method for calculating scale-dependent photochemical acceleration in dynamical models of the stratosphere. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1985, 111, 1027-1038.	2.7	1
112	A Matrix Method for Calculating Photochemical Acceleration. , 1985, , 33-37.		0
113	Radiative heating in the lower stratosphere and the distribution of ozone in a two-dimensional model. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1984, 110, 167-185.	2.7	45
114	Ozone perturbation experiments in a two-dimensional circulation model. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1982, 108, 551-574.	2.7	143
115	Ozone perturbation experiments in a two-dimensional circulation model. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1982, 108, 551-574.	2.7	3
116	Mean meridional circulations of the stratosphere and mesosphere. <i>Pure and Applied Geophysics</i> , 1980, 118, 307-328.	1.9	26
117	A two-dimensional calculation including atmospheric carbon dioxide and stratospheric ozone. <i>Nature</i> , 1979, 279, 222-224.	27.8	36
118	Radiative cooling near the mesopause. <i>Nature</i> , 1979, 281, 660-661.	27.8	24