

Peter J Webster

List of Publications by Year in descending order

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118
papers

16,040
citations

26630

56
h-index

22166

113
g-index

118
all docs

118
docs citations

118
times ranked

10458
citing authors

#	ARTICLE	IF	CITATIONS
1	Seven centuries of reconstructed Brahmaputra River discharge demonstrate underestimated high discharge and flood hazard frequency. <i>Nature Communications</i> , 2020, 11, 6017.	12.8	58
2	Toward Predicting Changes in the Land Monsoon Rainfall a Decade in Advance. <i>Journal of Climate</i> , 2018, 31, 2699-2714.	3.2	55
3	The effect of potential vorticity fluxes on the circulation of the tropical upper troposphere. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 848-860.	2.7	15
4	Piezo1 channels sense whole body physical activity to reset cardiovascular homeostasis and enhance performance. <i>Nature Communications</i> , 2017, 8, 350.	12.8	197
5	Quasi-biweekly oscillations of the South Asian monsoon and its co-evolution in the upper and lower troposphere. <i>Climate Dynamics</i> , 2017, 49, 3159-3174.	3.8	24
6	Upregulated WEE1 protects endothelial cells of colorectal cancer liver metastases. <i>Oncotarget</i> , 2017, 8, 42288-42299.	1.8	7
7	Predicting Heat Stress in Cotton Using Probabilistic Canopy Temperature Forecasts. <i>Agronomy Journal</i> , 2016, 108, 1981-1991.	1.8	5
8	MJO Propagation across the Maritime Continent in the ECMWF Ensemble Prediction System. <i>Journal of Climate</i> , 2016, 29, 3973-3988.	3.2	62
9	The Curious Nature of the Hemispheric Symmetry of the Earth's Water and Energy Balances. <i>Current Climate Change Reports</i> , 2016, 2, 135-147.	8.6	41
10	Rethinking Indian monsoon rainfall prediction in the context of recent global warming. <i>Nature Communications</i> , 2015, 6, 7154.	12.8	165
11	The albedo of Earth. <i>Reviews of Geophysics</i> , 2015, 53, 141-163.	23.0	196
12	Orai3 Surface Accumulation and Calcium Entry Evoked by Vascular Endothelial Growth Factor. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 1987-1994.	2.4	27
13	Development and Implementation of South Asia's First Heat-Health Action Plan in Ahmedabad (Gujarat, India). <i>Environmental Health Perspectives</i> , 2015, 123, 118-126.	2.6	118
14	An Atmospheric Hydrologic Forecasting Scheme for the Indus River Basin. <i>Journal of Hydrometeorology</i> , 2014, 15, 861-890.	1.9	13
15	Predictability and Prediction Skill of the MJO in Two Operational Forecasting Systems. <i>Journal of Climate</i> , 2014, 27, 5364-5378.	3.2	125
16	Assessing variability of evapotranspiration over the Ganga river basin using water balance computations. <i>Water Resources Research</i> , 2014, 50, 2551-2565.	4.2	40
17	Extended Prediction of North Indian Ocean Tropical Cyclones Using the ECMWF Variable Ensemble Prediction System. <i>Journal of Climate</i> , 2014, 27, 115-122.		1
18	Improve weather forecasts for the developing world. <i>Nature</i> , 2013, 493, 17-19.	27.8	85

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19	A Physical Basis for the Probabilistic Prediction of the Accumulated Tropical Cyclone Kinetic Energy in the Western North Pacific. <i>Journal of Climate</i> , 2013, 26, 7981-7991.	3.2	24
20	Northern Hemisphere summer monsoon intensified by mega-El Niño/southern oscillation and Atlantic multidecadal oscillation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5347-5352.	7.1	313
21	Distinct manifestations of austral summer tropical intraseasonal oscillations. <i>Geophysical Research Letters</i> , 2013, 40, 3337-3341.	4.0	23
22	Extended Prediction of North Indian Ocean Tropical Cyclones. <i>Weather and Forecasting</i> , 2012, 27, 757-769.	1.4	37
23	Evaluation of short-term climate change prediction in multi-model CMIP5 decadal hindcasts. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	165
24	Recent change of the global monsoon precipitation (1979–2008). <i>Climate Dynamics</i> , 2012, 39, 1123-1135.	3.8	337
25	Seasonal prediction skill of ECMWF System 4 and NCEP CFSv2 retrospective forecast for the Northern Hemisphere Winter. <i>Climate Dynamics</i> , 2012, 39, 2957-2973.	3.8	196
26	Asian summer monsoon prediction in ECMWF System 4 and NCEP CFSv2 retrospective seasonal forecasts. <i>Climate Dynamics</i> , 2012, 39, 2975-2991.	3.8	93
27	Variability of aerosols in the tropical Atlantic Ocean relative to African Easterly Waves and their relationship with atmospheric and oceanic environments. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	10
28	Evolution and modulation of tropical heating from the last glacial maximum through the twenty-first century. <i>Climate Dynamics</i> , 2012, 38, 1501-1519.	3.8	30
29	Modulation of North Pacific Tropical Cyclone Activity by Three Phases of ENSO. <i>Journal of Climate</i> , 2011, 24, 1839-1849.	3.2	211
30	Operational Hazard Weather Forecast in East and South Asia on 5–15 Day Time Scale. , 2011, , .		0
31	Environmental prediction, risk assessment and extreme events: adaptation strategies for the developing world. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 4768-4797.	3.4	24
32	Probabilistic discrimination between large-scale environments of intensifying and decaying African Easterly Waves. <i>Climate Dynamics</i> , 2011, 36, 1379-1401.	3.8	29
33	On the location and orientation of the South Pacific Convergence Zone. <i>Climate Dynamics</i> , 2011, 36, 561-578.	3.8	86
34	The role of wave energy accumulation in tropical cyclogenesis over the tropical North Atlantic. <i>Climate Dynamics</i> , 2011, 36, 753-767.	3.8	25
35	Oscillations of the intertropical convergence zone and the genesis of easterly waves. Part I: diagnostics and theory. <i>Climate Dynamics</i> , 2010, 34, 587-604.	3.8	36
36	Ocean–atmosphere coupling and the boreal winter MJO. <i>Climate Dynamics</i> , 2010, 35, 771-784.	3.8	36

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37	Beyond the spring barrier?. <i>Nature Geoscience</i> , 2010, 3, 152-153.	12.9	38
38	Spatial and Temporal Distribution of Latent Heating in the South Asian Monsoon Region. <i>Journal of Climate</i> , 2010, 23, 2010-2029.	3.2	28
39	A 10-Day Ensemble Forecasting Scheme for the Major River Basins of Bangladesh: Forecasting Severe Floods of 2003-07*. <i>Journal of Hydrometeorology</i> , 2010, 11, 618-641.	1.9	131
40	Extended-Range Probabilistic Forecasts of Ganges and Brahmaputra Floods in Bangladesh. <i>Bulletin of the American Meteorological Society</i> , 2010, 91, 1493-1514.	3.3	97
41	Predictability of North Atlantic Tropical Cyclone Activity on Intraseasonal Time Scales. <i>Monthly Weather Review</i> , 2010, 138, 4362-4374.	1.4	51
42	Extended-range seasonal hurricane forecasts for the North Atlantic with a hybrid dynamical-statistical model. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	36
43	Impact of Shifting Patterns of Pacific Ocean Warming on North Atlantic Tropical Cyclones. <i>Science</i> , 2009, 325, 77-80.	12.6	341
44	Large-scale controls on Ganges and Brahmaputra river discharge on intraseasonal and seasonal time-scales. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009, 135, 353-370.	2.7	69
45	Myanmar's deadly daffodil. <i>Nature Geoscience</i> , 2008, 1, 488-490.	12.9	133
46	Dynamics of Intraseasonal Sea Level and Thermocline Variability in the Equatorial Atlantic during 2002-03. <i>Journal of Physical Oceanography</i> , 2008, 38, 945-967.	1.7	40
47	Sensitivity of MJO Simulation and Predictability to Sea Surface Temperature Variability. <i>Journal of Climate</i> , 2008, 21, 5304-5317.	3.2	38
48	The Role of Intraseasonal Variability in the Nature of Asian Monsoon Precipitation. <i>Journal of Climate</i> , 2007, 20, 4402-4424.	3.2	192
49	Heightened tropical cyclone activity in the North Atlantic: natural variability or climate trend?. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007, 365, 2695-2716.	3.4	248
50	A physical basis for the interannual variability of rainfall in the Sahel. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007, 133, 2065-2084.	2.7	98
51	Effects of the seasonal cycle on the development and termination of the Indian Ocean Zonal Dipole Mode. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	10
52	A three-tier overlapping prediction scheme: tools for strategic and tactical decisions in the developing world. , 2006, , 645-673.		6
53	Interannual Variability of Indian Ocean Heat Transport. <i>Journal of Climate</i> , 2006, 19, 1013-1031.	3.2	29
54	Antecedents and self-induction of active-break south Asian monsoon unraveled by satellites. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	58

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55	Prediction of Monsoon Rainfall and River Discharge on 15–30-Day Time Scales. <i>Bulletin of the American Meteorological Society</i> , 2004, 85, 1745-1766.	3.3	164
56	The Elementary Hadley Circulation. <i>Advances in Global Change Research</i> , 2004, , 9-60.	1.6	56
57	Observational Evidence for the Mutual Regulation of the Tropical Hydrological Cycle and Tropical Sea Surface Temperatures. <i>Journal of Climate</i> , 2004, 17, 2213-2224.	3.2	89
58	The Asian Monsoon, the Tropospheric Biennial Oscillation, and the Indian Ocean Zonal Mode in the NCAR CSM*. <i>Journal of Climate</i> , 2003, 16, 1617-1642.	3.2	121
59	Interdecadal Variability of the Relationship between the Indian Ocean Zonal Mode and East African Coastal Rainfall Anomalies. <i>Journal of Climate</i> , 2003, 16, 548-554.	3.2	209
60	Forcing Mechanisms of Sea Level Interannual Variability in the Bay of Bengal. <i>Journal of Physical Oceanography</i> , 2002, 32, 216-239.	1.7	105
61	The monsoon as a self-regulating coupled ocean–atmosphere system. <i>International Geophysics</i> , 2002, , 198-219.	0.6	27
62	The Boreal Summer Intraseasonal Oscillation: Relationship between Northward and Eastward Movement of Convection. <i>Journals of the Atmospheric Sciences</i> , 2002, 59, 1593-1606.	1.7	352
63	Dynamical response of equatorial Indian Ocean to intraseasonal winds: Zonal Flow. <i>Geophysical Research Letters</i> , 2001, 28, 4215-4218.	4.0	94
64	Interannual Variations of the Intraseasonal Oscillation in the South Asian Summer Monsoon Region. <i>Journal of Climate</i> , 2001, 14, 2910-2922.	3.2	145
65	A Coupled Ocean–Atmosphere System of SST Modulation for the Indian Ocean*. <i>Journal of Climate</i> , 2000, 13, 3342-3360.	3.2	106
66	Indian Ocean SST and Indian Summer Rainfall: Predictive Relationships and Their Decadal Variability. <i>Journal of Climate</i> , 2000, 13, 2503-2519.	3.2	197
67	Large-Scale Dynamical Fields Associated with Convectively Coupled Equatorial Waves. <i>Journals of the Atmospheric Sciences</i> , 2000, 57, 613-640.	1.7	420
68	Atmospheric and surface variations during westerly wind bursts in the tropical western pacific. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2000, 126, 899-924.	2.7	25
69	Atmospheric and surface variations during westerly wind bursts in the tropical western Pacific. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2000, 126, 899-924.	2.7	7
70	Interdecadal Changes in the ENSO–Monsoon System. <i>Journal of Climate</i> , 1999, 12, 2679-2690.	3.2	1,597
71	The influence of cross-equatorial pressure gradients on the location of near-equatorial convection. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1999, 125, 1107-1127.	2.7	49
72	The horizontal and vertical structure of east Asian winter monsoon pressure surges. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1999, 125, 29-54.	2.7	132

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73	Coupled ocean-atmosphere dynamics in the Indian Ocean during 1997-98. <i>Nature</i> , 1999, 401, 356-360.	27.8	1,800
74	Warm Pool SST Variability in Relation to the Surface Energy Balance. <i>Journal of Climate</i> , 1999, 12, 1292-1305.	3.2	50
75	Co-occurrence of Northern and Southern Hemisphere Blocks as Partially Synchronized Chaos. <i>Journals of the Atmospheric Sciences</i> , 1999, 56, 4183-4205.	1.7	52
76	The influence of cross-equatorial pressure gradients on the location of near-equatorial convection. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1999, 125, 1107-1127.	2.7	16
77	The annual cycle of persistence in the El Niño/Southern Oscillation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1998, 124, 1985-2004.	2.7	122
78	Atmospheric wave propagation in heterogeneous flow: basic flow controls on tropical-extratropical interaction and equatorial wave modification. <i>Dynamics of Atmospheres and Oceans</i> , 1998, 27, 91-134.	1.8	26
79	The annual cycle of persistence in the El Niño/Southern Oscillation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1998, 124, 1985-2004.	2.7	102
80	The past and the future of El Niño. <i>Nature</i> , 1997, 390, 562-564.	27.8	119
81	The role of inertial instability in determining the location and strength of near-equatorial convection. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1997, 123, 1445-1482.	2.7	130
82	Monsoon/El Niño-Southern Oscillation relationships in a simple coupled ocean-atmosphere model. <i>Journal of Geophysical Research</i> , 1996, 101, 25599-25614.	3.3	42
83	Clouds, Radiation, and the Diurnal Cycle of Sea Surface Temperature in the Tropical Western Pacific. <i>Journal of Climate</i> , 1996, 9, 1712-1730.	3.2	236
84	Energy Accumulation and Emanation at Low Latitudes. Part III: Forward and Backward Accumulation. <i>Journals of the Atmospheric Sciences</i> , 1995, 52, 2384-2403.	1.7	15
85	Horizontal and Vertical Structure of Cross-Equatorial Wave Propagation. <i>Journals of the Atmospheric Sciences</i> , 1994, 51, 1417-1430.	1.7	92
86	The role of hydrological processes in ocean-atmosphere interactions. <i>Reviews of Geophysics</i> , 1994, 32, 427.	23.0	292
87	Random Error Growth in NMC's Global Forecasts. <i>Monthly Weather Review</i> , 1994, 122, 1281-1305.	1.4	100
88	TOGA COARE: The Coupled Ocean-Atmosphere Response Experiment. <i>Bulletin of the American Meteorological Society</i> , 1992, 73, 1377-1416.	3.3	835
89	Laterally Forced Equatorial Perturbations in a Linear Model. Part I: Stationary Transient Forcing. <i>Journals of the Atmospheric Sciences</i> , 1992, 49, 585-607.	1.7	37
90	Monsoon and ENSO: Selectively Interactive Systems. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1992, 118, 877-926.	2.7	1,571

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91	The structure of low frequency phenomena in the tropics and its interaction with the extratropics. <i>Advances in Atmospheric Sciences</i> , 1992, 9, 1-16.	4.3	2
92	Longitudinal heating gradient: Another possible factor influencing the intensity of the Asian summer monsoon circulation. <i>Advances in Atmospheric Sciences</i> , 1992, 9, 397-410.	4.3	48
93	Monsoon and ENSO: Selectively interactive systems. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1992, 118, 877-926.	2.7	21
94	Energy Accumulation and Emanation at Low Latitudes. Part II: Nonlinear Response to Strong Episodic Equatorial Forcing. <i>Journals of the Atmospheric Sciences</i> , 1990, 47, 2624-2644.	1.7	37
95	The Effect of summer tropical heating on the location and intensity of the extratropical westerly jet streams. <i>Journal of Geophysical Research</i> , 1990, 95, 18705-18721.	3.3	72
96	The Three-Dimensional Structure of Perturbation Kinetic Energy and Its Relationship to the Zonal Wind Field. <i>Journal of Climate</i> , 1989, 2, 1210-1222.	3.2	9
97	Effects of Zonal Flows on Equatorially Trapped Waves. <i>Journals of the Atmospheric Sciences</i> , 1989, 46, 3632-3652.	1.7	72
98	Alternative theories of atmospheric teleconnections and low-frequency fluctuations. <i>Reviews of Geophysics</i> , 1988, 26, 459-494.	23.0	60
99	Equatorial Energy Accumulation and Emanation Regions: Impacts of a Zonally Varying Basic State. <i>Journals of the Atmospheric Sciences</i> , 1988, 45, 803-829.	1.7	140
100	Annual and Interannual Variability of Tropical-Extratropical Interaction: An Empirical Study. <i>Monthly Weather Review</i> , 1985, 113, 1510-1523.	1.4	40
101	Cloud Decoupling of the Surface and Planetary Radiative Budgets. <i>Journals of the Atmospheric Sciences</i> , 1984, 41, 681-686.	1.7	40
102	Mechanisms of Monsoon Low-Frequency Variability: Surface Hydrological Effects. <i>Journals of the Atmospheric Sciences</i> , 1983, 40, 2110-2124.	1.7	250
103	Seasonality in the Local and Remote Atmospheric Response to Sea Surface Temperature Anomalies. <i>Journals of the Atmospheric Sciences</i> , 1982, 39, 41-52.	1.7	95
104	Cross-Equatorial Response to Middle-Latitude Forcing in a Zonally Varying Basic State. <i>Journals of the Atmospheric Sciences</i> , 1982, 39, 722-733.	1.7	290
105	Mechanisms Determining the Atmospheric Response to Sea Surface Temperature Anomalies. <i>Journals of the Atmospheric Sciences</i> , 1981, 38, 554-571.	1.7	236
106	The climate of Mt. Wilhelm, Mt. Wilhelm studies 2. R. J. Hnatiuk, J. M. B. Smith, and D. N. McVean, Research School of Pacific Studies, Department of Biogeography and Geomorphology, Publication BG/4, Australian National University. Canberra. Australia. 76 pp.. <i>Quaternary Research</i> , 1981, 16, 123-123.	1.7	0
107	Low-Frequency Transitions of a Simple Monsoon System. <i>Journals of the Atmospheric Sciences</i> , 1980, 37, 368-382.	1.7	44
108	Seasonal Structure of a Simple Monsoon System. <i>Journals of the Atmospheric Sciences</i> , 1980, 37, 354-367.	1.7	37

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109	Sensitivity of Radiative Forcing to Variable Cloud and Moisture. Journals of the Atmospheric Sciences, 1979, 36, 1542-1556.	1.7	66
110	Mechanisms Effecting the State, Evolution and Transition of the Planetary Scale Monsoon. , 1978, , 1463-1491.		3
111	A Simple Ocean-Atmosphere Climate Model: Basic Model and a Simple Experiment. Journals of the Atmospheric Sciences, 1977, 34, 1063-1084.	1.7	18
112	The low-latitude circulation of Mars. Icarus, 1977, 30, 626-649.	2.5	48
113	Mechanisms effecting the state, evolution and transition of the planetary scale monsoon. Pure and Applied Geophysics, 1977, 115, 1463-1491.	1.9	19
114	Interpretations of the EOLE Experiment II. Spatial Variation of Transient and Stationary Modes. Journals of the Atmospheric Sciences, 1975, 32, 1848-1863.	1.7	9
115	Strong long-period tropospheric and stratospheric rhythm in the Southern Hemisphere. Nature, 1974, 248, 212-213.	27.8	15
116	Remote Forcing of the Time-Independent Tropical Atmosphere. Monthly Weather Review, 1973, 101, 58-68.	1.4	15
117	Temporal Variation of Low-Latitude Zonal Circulations. Monthly Weather Review, 1973, 101, 803-816.	1.4	23
118	Response of the Tropical Atmosphere to Local, Steady Forcing. Monthly Weather Review, 1972, 100, 518-541.	1.4	247