Peter J Webster

List of Publications by Year
in descending order

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	Coupled oceanâ€“atmosphere dynamics in the Indian Ocean during 1997â€“98. Nature, 1999, 401, 356-360.	27.8	1,800
2	Interdecadal Changes in the ENSOâ€“Monsoon System. Journal of Climate, 1999, 12, 2679-2690.	3.2	1,597
3	Monsoon and Enso: Selectively Interactive Systems. Quarterly Journal of the Royal Meteorological Society, 1992, 118, 877-926.	2.7	1,571
4	TOGA COARE: The Coupled Oceanâ€”Atmosphere Response Experiment. Bulletin of the American Meteorological Society, 1992, 73, 1377-1416.	3.3	835
5	Large-Scale Dynamical Fields Associated with Convectively Coupled Equatorial Waves. Journals of the Atmospheric Sciences, 2000, 57, 613-640.	1.7	420
6	The Boreal Summer Intraseasonal Oscillation: Relationship between Northward and Eastward Movement of Convection. Journals of the Atmospheric Sciences, 2002, 59, 1593-1606.	1.7	352
7	Impact of Shifting Patterns of Pacific Ocean Warming on North Atlantic Tropical Cyclones. Science, 2009, 325, 77-80.	12.6	341
8	Recent change of the global monsoon precipitation (1979â€“2008). Climate Dynamics, 2012, 39, 1123-1135.	3.8	337
9	Northern Hemisphere summer monsoon intensified by mega-El NiÃ±o/southern oscillation and Atlantic multidecadal oscillation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5347-5352.	7.1	313
10	The role of hydrological processes in ocean-atmosphere interactions. Reviews of Geophysics, 1994, 32, 427.	23.0	292
11	Cross-Equatorial Response to Middle-Latitude Forcing in a Zonally Varying Basic State. Journals of the Atmospheric Sciences, 1982, 39, 722-733.	1.7	290
12	Mechanisms of Monsoon Low-Frequency Variability: Surface Hydrological Effects. Journals of the Atmospheric Sciences, 1983, 40, 2110-2124.	1.7	250
13	Heightened tropical cyclone activity in the North Atlantic: natural variability or climate trend?. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 2695-2716.	3.4	248
14	Response of the Tropical Atmosphere to Local, Steady Forcing. Monthly Weather Review, 1972, 100, 518-541.	1.4	247
15	Mechanisms Determining the Atmospheric Response to Sea Surface Temperature Anomalies. Journals of the Atmospheric Sciences, 1981, 38, 554-571.	1.7	236
16	Clouds, Radiation, and the Diurnal Cycle of Sea Surface Temperature in the Tropical Western Pacific. Journal of Climate, 1996, 9, 1712-1730.	3.2	236
17	Modulation of North Pacific Tropical Cyclone Activity by Three Phases of ENSO. Journal of Climate, 2011, 24, 1839-1849.	3.2	211
18	Interdecadal Variability of the Relationship between the Indian Ocean Zonal Mode and East African Coastal Rainfall Anomalies. Journal of Climate, 2003, 16, 548-554.	3.2	209

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19	Indian Ocean SST and Indian Summer Rainfall: Predictive Relationships and Their Decadal Variability. Journal of Climate, 2000, 13, 2503-2519.	3.2	197
20	Piezo1 channels sense whole body physical activity to reset cardiovascular homeostasis and enhance performance. Nature Communications, 2017, 8, 350.	12.8	197
21	Seasonal prediction skill of ECMWF System 4 and NCEP CFSv2 retrospective forecast for the Northern Hemisphere Winter. Climate Dynamics, 2012, 39, 2957-2973.	3.8	196
22	The albedo of Earth. Reviews of Geophysics, 2015, 53, 141-163.	23.0	196
23	The Role of Intraseasonal Variability in the Nature of Asian Monsoon Precipitation. Journal of Climate, 2007, 20, 4402-4424.	3.2	192
24	Evaluation of shortâ€term climate change prediction in multiâ€model CMIP5 decadal hindcasts. Geophysical Research Letters, 2012, 39, .	4.0	165
25	Rethinking Indian monsoon rainfall prediction in the context of recent global warming. Nature Communications, 2015, 6, 7154.	12.8	165
26	Prediction of Monsoon Rainfall and River Discharge on 15â€“30-Day Time Scales. Bulletin of the American Meteorological Society, 2004, 85, 1745-1766.	3.3	164
27	Interannual Variations of the Intraseasonal Oscillation in the South Asian Summer Monsoon Region. Journal of Climate, 2001, 14, 2910-2922.	3.2	145
28	Equatorial Energy Accumulation and Emanation Regions: Impacts of a Zonally Varying Basic State. Journals of the Atmospheric Sciences, 1988, 45, 803-829.	1.7	140
29	Myanmar's deadly daffodil. Nature Geoscience, 2008, 1, 488-490.	12.9	133
30	The horizontal and vertical structure of east Asian winter monsoon pressure surges. Quarterly Journal of the Royal Meteorological Society, 1999, 125, 29-54.	2.7	132
31	A 1â€“10-Day Ensemble Forecasting Scheme for the Major River Basins of Bangladesh: Forecasting Severe Floods of 2003â€“07*. Journal of Hydrometeorology, 2010, 11, 618-641.	1.9	131
32	The role of inertial instability in determining the location and strength of nearâ€equatorial convection. Quarterly Journal of the Royal Meteorological Society, 1997, 123, 1445-1482.	2.7	130
33	Predictability and Prediction Skill of the MJO in Two Operational Forecasting Systems. Journal of Climate, 2014, 27, 5364-5378.	3.2	125
34	The annual cycle of persistence in the El NÃ±o/Southern Oscillation. Quarterly Journal of the Royal Meteorological Society, 1998, 124, 1985-2004.	2.7	122
35	The Asian Monsoon, the Tropospheric Biennial Oscillation, and the Indian Ocean Zonal Mode in the NCAR CSM*. Journal of Climate, 2003, 16, 1617-1642.	3.2	121
36	The past and the future of El NiÃ±o. Nature, 1997, 390, 562-564.	27.8	119

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37	Development and Implementation of South Asiaâ€™s First Heat-Health Action Plan in Ahmedabad (Gujarat,) Tj ETQq1 1 0.784314 rgBT	2.6	118
38	A Coupled Oceanâ€“Atmosphere System of SST Modulation for the Indian Ocean*. Journal of Climate, 2000, 13, 3342-3360.	3.2	106
39	Forcing Mechanisms of Sea Level Interannual Variability in the Bay of Bengal. Journal of Physical Oceanography, 2002, 32, 216-239.	1.7	105
40	The annual cycle of persistence in the El Nino/Southern Oscillation. Quarterly Journal of the Royal Meteorological Society, 1998, 124, 1985-2004.	2.7	102
41	Random Error Growth in NMC's Global Forecasts. Monthly Weather Review, 1994, 122, 1281-1305.	1.4	100
42	A physical basis for the interannual variability of rainfall in the Sahel. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 2065-2084.	2.7	98
43	Extended-Range Probabilistic Forecasts of Ganges and Brahmaputra Floods in Bangladesh. Bulletin of the American Meteorological Society, 2010, 91, 1493-1514.	3.3	97
44	Seasonality in the Local and Remote Atmospheric Response to Sea Surface Temperature Anomalies. Journals of the Atmospheric Sciences, 1982, 39, 41-52.	1.7	95
45	Dynamical response of equatorial Indian Ocean to intraseasonal winds: Zonal Flow. Geophysical Research Letters, 2001, 28, 4215-4218.	4.0	94
46	Asian summer monsoon prediction in ECMWF System 4 and NCEP CFSv2 retrospective seasonal forecasts. Climate Dynamics, 2012, 39, 2975-2991.	3.8	93
47	Horizontal and Vertical Structure of Cross-Equatorial Wave Propagation. Journals of the Atmospheric Sciences, 1994, 51, 1417-1430.	1.7	92
48	Observational Evidence for the Mutual Regulation of the Tropical Hydrological Cycle and Tropical Sea Surface Temperatures. Journal of Climate, 2004, 17, 2213-2224.	3.2	89
49	On the location and orientation of the South Pacific Convergence Zone. Climate Dynamics, 2011, 36, 561-578.	3.8	86
50	Improve weather forecasts for the developing world. Nature, 2013, 493, 17-19.	27.8	85
51	The Effect of summer tropical heating on the location and intensity of the extratropical westerly jet streams. Journal of Geophysical Research, 1990, 95, 18705-18721.	3.3	72
52	Effects of Zonal Flows on Equatorially Trapped Waves. Journals of the Atmospheric Sciences, 1989, 46, 3632-3652.	1.7	72
53	Largeâ€scale controls on Ganges and Brahmaputra river discharge on intraseasonal and seasonal timeâ€scales. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 353-370.	2.7	69
54	Sensitivity of Radiative Forcing to Variable Cloud and Moisture. Journals of the Atmospheric Sciences, 1979, 36, 1542-1556.	1.7	66

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55	MJO Propagation across the Maritime Continent in the ECMWF Ensemble Prediction System. Journal of Climate, 2016, 29, 3973-3988.	3.2	62
56	Alternative theories of atmospheric teleconnections and lowâ€frequency fluctuations. Reviews of Geophysics, 1988, 26, 459-494.	23.0	60
57	Antecedents and self-induction of active-break south Asian monsoon unraveled by satellites. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	58
58	Seven centuries of reconstructed Brahmaputra River discharge demonstrate underestimated high discharge and flood hazard frequency. Nature Communications, 2020, 11, 6017.	12.8	58
59	The Elementary Hadley Circulation. Advances in Global Change Research, 2004, , 9-60.	1.6	56
60	Toward Predicting Changes in the Land Monsoon Rainfall a Decade in Advance. Journal of Climate, 2018, 31, 2699-2714.	3.2	55
61	Co-occurrence of Northern and Southern Hemisphere Blocks as Partially Synchronized Chaos. Journals of the Atmospheric Sciences, 1999, 56, 4183-4205.	1.7	52
62	Predictability of North Atlantic Tropical Cyclone Activity on Intraseasonal Time Scales. Monthly Weather Review, 2010, 138, 4362-4374.	1.4	51
63	Warm Pool SST Variability in Relation to the Surface Energy Balance. Journal of Climate, 1999, 12, 1292-1305.	3.2	50
64	The influence of crossâ€equatorial pressure gradients on the location of nearâ€equatorial convection. Quarterly Journal of the Royal Meteorological Society, 1999, 125, 1107-1127.	2.7	49
65	The low-latitude circulation of Mars. Icarus, 1977, 30, 626-649.	2.5	48
66	Longitudinal heating gradient: Another possible factor influencing the intensity of the Asian summer monsoon circulation. Advances in Atmospheric Sciences, 1992, 9, 397-410.	4.3	48
67	Low-Frequency Transitions of a Simple Monsoon System. Journals of the Atmospheric Sciences, 1980, 37, 368-382.	1.7	44
68	Monsoon/El NiÃ±o-Southern Oscillation relationships in a simple coupled ocean-atmosphere model. Journal of Geophysical Research, 1996, 101, 25599-25614.	3.3	42
69	The Curious Nature of the Hemispheric Symmetry of the Earthâ€™s Water and Energy Balances. Current Climate Change Reports, 2016, 2, 135-147.	8.6	41
70	Cloud Decoupling of the Surface and Planetary Radiative Budgets. Journals of the Atmospheric Sciences, 1984, 41, 681-686.	1.7	40
71	Annual and Interannual Variability of Tropical-Extratropical Interaction: An Empirical Study. Monthly Weather Review, 1985, 113, 1510-1523.	1.4	40
72	Dynamics of Intraseasonal Sea Level and Thermocline Variability in the Equatorial Atlantic during 2002â€“03. Journal of Physical Oceanography, 2008, 38, 945-967.	1.7	40

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73	Assessing variability of evapotranspiration over the Ganga river basin using water balance computations. Water Resources Research, 2014, 50, 2551-2565.	4.2	40
74	Sensitivity of MJO Simulation and Predictability to Sea Surface Temperature Variability. Journal of Climate, 2008, 21, 5304-5317.	3.2	38
75	Beyond the spring barrier?. Nature Geoscience, 2010, 3, 152-153.	12.9	38
76	Seasonal Structure of a Simple Monsoon System. Journals of the Atmospheric Sciences, 1980, 37, 354-367.	1.7	37
77	Energy Accumulation and Emanation at Low Latitudes. Part II: Nonlinear Response to Strong Episodic Equatorial Forcing. Journals of the Atmospheric Sciences, 1990, 47, 2624-2644.	1.7	37
78	Laterally Forced Equatorial Perturbations in a Linear Model. Part I: Stationary Transient Forcing. Journals of the Atmospheric Sciences, 1992, 49, 585-607.	1.7	37
79	Extended Prediction of North Indian Ocean Tropical Cyclones. Weather and Forecasting, 2012, 27, 757-769.	1.4	37
80	Oscillations of the intertropical convergence zone and the genesis of easterly waves. Part I: diagnostics and theory. Climate Dynamics, 2010, 34, 587-604.	3.8	36
81	Oceanâ€“atmosphere coupling and the boreal winter MJO. Climate Dynamics, 2010, 35, 771-784.	3.8	36
82	Extendedâ€range seasonal hurricane forecasts for the North Atlantic with a hybrid dynamicalâ€statistical model. Geophysical Research Letters, 2010, 37, .	4.0	36
83	Evolution and modulation of tropical heating from the last glacial maximum through the twenty-first century. Climate Dynamics, 2012, 38, 1501-1519.	3.8	30
84	Interannual Variability of Indian Ocean Heat Transport. Journal of Climate, 2006, 19, 1013-1031.	3.2	29
85	Probabilistic discrimination between large-scale environments of intensifying and decaying African Easterly Waves. Climate Dynamics, 2011, 36, 1379-1401.	3.8	29
86	Spatial and Temporal Distribution of Latent Heating in the South Asian Monsoon Region. Journal of Climate, 2010, 23, 2010-2029.	3.2	28
87	The monsoon as a self-regulating coupled oceanâ€”atmosphere system. International Geophysics, 2002, , 198-219.	0.6	27
88	Orai3 Surface Accumulation and Calcium Entry Evoked by Vascular Endothelial Growth Factor. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 1987-1994.	2.4	27
89	Atmospheric wave propagation in heterogeneous flow: basic flow controls on tropicalâ€”extratropical interaction and equatorial wave modification. Dynamics of Atmospheres and Oceans, 1998, 27, 91-134.	1.8	26
90	Atmospheric and surface variations during westerly wind bursts in the tropical western pacific. Quarterly Journal of the Royal Meteorological Society, 2000, 126, 899-924.	2.7	25

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91	The role of wave energy accumulation in tropical cyclogenesis over the tropical North Atlantic. Climate Dynamics, 2011, 36, 753-767.	3.8	25
92	Environmental prediction, risk assessment and extreme events: adaptation strategies for the developing world. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 4768-4797.	3.4	24
93	A Physical Basis for the Probabilistic Prediction of the Accumulated Tropical Cyclone Kinetic Energy in the Western North Pacific. Journal of Climate, 2013, 26, 7981-7991.	3.2	24
94	Quasi-biweekly oscillations of the South Asian monsoon and its co-evolution in the upper and lower troposphere. Climate Dynamics, 2017, 49, 3159-3174.	3.8	24
95	Distinct manifestations of austral summer tropical intraseasonal oscillations. Geophysical Research Letters, 2013, 40, 3337-3341.	4.0	23
96	Temporal Variation of Low-Latitude Zonal Circulations. Monthly Weather Review, 1973, 101, 803-816.	1.4	23
97	Monsoon and ENSO: Selectively interactive systems. Quarterly Journal of the Royal Meteorological Society, 1992, 118, 877-926.	2.7	21
98	Mechanisms effecting the state, evolution and transition of the planetary scale monsoon. Pure and Applied Geophysics, 1977, 115, 1463-1491.	1.9	19
99	A Simple Ocean-Atmosphere Climate Model: Basic Model and a Simple Experiment. Journals of the Atmospheric Sciences, 1977, 34, 1063-1084.	1.7	18
100	The influence of cross-equatorial pressure gradients on the location of near-equatorial convection. Quarterly Journal of the Royal Meteorological Society, 1999, 125, 1107-1127.	2.7	16
101	Strong long-period tropospheric and stratospheric rhythm in the Southern Hemisphere. Nature, 1974, 248, 212-213.	27.8	15
102	Energy Accumulation and Emanation at Low Latitudes. Part III: Forward and Backward Accumulation. Journals of the Atmospheric Sciences, 1995, 52, 2384-2403.	1.7	15
103	The effect of potential vorticity fluxes on the circulation of the tropical upper troposphere. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 848-860.	2.7	15
104	Remote Forcing of the Time-Independent Tropical Atmosphere. Monthly Weather Review, 1973, 101, 58-68.	1.4	15
105	An Atmosphericâ€“Hydrologic Forecasting Scheme for the Indus River Basin. Journal of Hydrometeorology, 2014, 15, 861-890.	1.9	13
106	Effects of the seasonal cycle on the development and termination of the Indian Ocean Zonal Dipole Mode. Journal of Geophysical Research, 2006, 111, .	3.3	10
107	Variability of aerosols in the tropical Atlantic Ocean relative to African Easterly Waves and their relationship with atmospheric and oceanic environments. Journal of Geophysical Research, 2012, 117, .	3.3	10
108	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

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109	The Three-Dimensional Structure of Perturbation Kinetic Energy and Its Relationship to the Zonal Wind Field. Journal of Climate, 1989, 2, 1210-1222.	3.2	9
110	Atmospheric and surface variations during westerly wind bursts in the tropical western Pacific. Quarterly Journal of the Royal Meteorological Society, 2000, 126, 899-924.	2.7	7
111	Upregulated WEE1 protects endothelial cells of colorectal cancer liver metastases. Oncotarget, 2017, 8, 42288-42299.	1.8	7
112	A three-tier overlapping prediction scheme: tools for strategic and tactical decisions in the developing world. , 2006, , 645-673.		6
113	Predicting Heat Stress in Cotton Using Probabilistic Canopy Temperature Forecasts. Agronomy Journal, 2016, 108, 1981-1991.	1.8	5
114	Mechanisms Effecting the State, Evolution and Transition of the Planetary Scale Monsoon. , 1978, , 1463-1491.		3
115	The structure of low frequency phenomena in the tropics and its interaction with the extratropics. Advances in Atmospheric Sciences, 1992, 9, 1-16.	4.3	2
116	Extended Prediction of North Indian Ocean Tropical Cyclones Using the ECMWF Variable Ensemble Prediction System. , 2014, , 115-122.		1
117	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 Geomaphology, Publication BG/4, Australian National University. Canberra. Australia. 76 pp.. Quaternary Research, 1981, 16, 123-123.	1.7	0
118	Operational Hazard Weather Forecast in East and South Asia on 5â€“15 Day Time Scale. , 2011, , .		0