Paul Poli

List of Publications by Year
in descending order

44 papers	23,672 citations	236925 25 h-index	243625 44 g-index
48 all docs	48 docs citations	48 times ranked	23269 citing authors

#	Article	IF	Citations
1	The ERAâ€Interim reanalysis: configuration and performance of the data assimilation system. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 553-597.	2.7	20,227
2	ERA-20C: An Atmospheric Reanalysis of the Twentieth Century. Journal of Climate, 2016, 29, 4083-4097.	3.2	807
3	Diagnosis of observation, background and analysis-error statistics in observation space. Quarterly Journal of the Royal Meteorological Society, 2005, 131, 3385-3396.	2.7	611
4	Atmospheric conservation properties in ERAâ€Interim. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 1381-1399.	2.7	310
5	CERAâ€20C: A Coupled Reanalysis of the Twentieth Century. Journal of Advances in Modeling Earth Systems, 2018, 10, 1172-1195.	3.8	212
6	ERAâ€20CM: a twentiethâ€century atmospheric model ensemble. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 2350-2375.	2.7	167
7	Assimilation of Global Positioning System radio occultation data in the ECMWF ERAâ€“Interim reanalysis. Quarterly Journal of the Royal Meteorological Society, 2010, 136, 1972-1990.	2.7	161
8	Estimating lowâ€frequency variability and trends in atmospheric temperature using ERAâ€Interim. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 329-353.	2.7	161
9	Forecast impact studies of zenith total delay data from European near real-time GPS stations in MÃ©tÃ©o France 4DVAR. Journal of Geophysical Research, 2007, 112, .	3.3	86
10	1DVAR analysis of temperature and humidity using GPS radio occultation refractivity data. Journal of Geophysical Research, 2002, 107, ACL 14-1.	3.3	67
11	Arctic warming in ERAâ€Interim and other analyses. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 1147-1162.	2.7	64
12	Quality Control, Error Analysis, and Impact Assessment of FORMOSAT-3/COSMIC in Numerical Weather Prediction. Terrestrial, Atmospheric and Oceanic Sciences, 2009, 20, 101.	0.6	61
13	The ADM-Aeolus wind retrieval algorithms. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 60, 191.	1.7	58
14	Global in situ Observations of Essential Climate and Ocean Variables at the Airâ€“Sea Interface. Frontiers in Marine Science, 2019, 6, .	2.5	49
15	A Global Ocean Observing System (GOOS), Delivered Through Enhanced Collaboration Across Regions, Communities, and New Technologies. Frontiers in Marine Science, 2019, 6, .	2.5	48
16	Impact of GPS zenith delay assimilation on convectiveâ€scale prediction of Mediterranean heavy rainfall. Journal of Geophysical Research, 2009, 114, .	3.3	45
17	Southward shift of the northern tropical belt from 1945 to 1980. Nature Geoscience, 2015, 8, 969-974.	12.9	39
18	Comparison of regional and global reanalysis near-surface winds with station observations over Germany. Advances in Science and Research, 2015, 12, 187-198.	1.0	39

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19	The benefit of GPS zenith delay assimilation to highâ€resolution quantitative precipitation forecasts: a caseâ€study from COPS IOP 9. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 1788-1800.	2.7	38
20	Analysis of current validation practices in Europe for space-based climate data records of essential climate variables. International Journal of Applied Earth Observation and Geoinformation, 2015, 42, 150-161.	2.8	35
21	Observations for Reanalyses. Bulletin of the American Meteorological Society, 2018, 99, 1851-1866.	3.3	35
22	Ship-Based Contributions to Global Ocean, Weather, and Climate Observing Systems. Frontiers in Marine Science, 2019, 6, .	2.5	34
23	Effects of horizontal gradients on GPS radio occultation observation operators. I: Ray tracing. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 2787-2805.	2.7	28
24	Preliminary assessment of the scalability of GPS radio occultations impact in numerical weather prediction. Geophysical Research Letters, 2008, 35, .	4.0	28
25	An Overview of European Efforts in Generating Climate Data Records. Bulletin of the American Meteorological Society, 2018, 99, 349-359.	3.3	26
26	Towards a Traceable Climate Service: Assessment of Quality and Usability of Essential Climate Variables. Remote Sensing, 2019, 11, 1186.	4.0	26
27	Worldwide Survey of Awareness and Needs Concerning Reanalyses and Respondents Views on Climate Services. Bulletin of the American Meteorological Society, 2016, 97, 1461-1473.	3.3	23
28	The potential value of early (1939â€“1967) upperâ€air data in atmospheric climate reanalysis. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 1197-1210.	2.7	19
29	Effects of horizontal gradients on GPS radio occultation observation operators. II: A Fast Atmospheric Refractivity Gradient Operator (FARGO). Quarterly Journal of the Royal Meteorological Society, 2004, 130, 2807-2825.	2.7	17
30	Advancing Global and Regional Reanalyses. Bulletin of the American Meteorological Society, 2018, 99, ES139-ES144.	3.3	15
31	Benchmarking Northern Hemisphere midlatitude atmospheric synoptic variability in centennial reanalysis and numerical simulations. Geophysical Research Letters, 2016, 43, 5442-5449.	4.0	14
32	The Joint IOC (of UNESCO) and WMO Collaborative Effort for Met-Ocean Services. Frontiers in Marine Science, 2019, 6, .	2.5	14
33	Detection of cloud-affected AIRS channels using an adjacent-pixel approach. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 1469-1487.	2.7	12
34	Recent Advances in Satellite Data Rescue. Bulletin of the American Meteorological Society, 2017, 98, 1471-1484.	3.3	11
35	The Copernicus Surface Velocity Platform drifter with Barometer and Reference Sensor for Temperature (SVP-BRST): genesis, design, and initial results. Ocean Science, 2019, 15, 199-214.	3.4	11
36	Development of Surface Drifting Buoys for Fiducial Reference Measurements of Sea-Surface Temperature. Frontiers in Marine Science, 2019, 6, .	2.5	11

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37	Effects of data selection and error specification on the assimilation of AIRS data. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 181-196.	2.7	10
38	Upper-air observations from the German Atlantic Expedition (1925â€“27) and comparison with the Twentieth Century and ERA-20C reanalyses. Meteorologische Zeitschrift, 2015, 24, 525-544.	1.0	9
39	User awareness concerning feedback data and input observations used in reanalysis systems. Advances in Science and Research, 2015, 12, 63-67.	1.0	9
40	Characterisation of Special Sensor Microwave Water Vapor Profiler (SSM/T-2) radiances using radiative transfer simulations from global atmospheric reanalyses. Advances in Space Research, 2017, 59, 917-935.	2.6	7
41	Note on the effect of horizontal gradients for nadir-viewing microwave and infrared sounders. Quarterly Journal of the Royal Meteorological Society, 2005, 131, 1783-1792.	2.7	6
42	Assimilation of satellite observations of the atmosphere. Comptes Rendus - Geoscience, 2010, 342, 357-369.	1.2	5
43	Assessing reanalysis quality with early sounders Nimbus-4 IRIS (1970) and Nimbus-6 HIRS (1975). Advances in Space Research, 2018, 62, 245-264.	2.6	3
44	Errors induced by ozone field horizontal inhomogeneities into simulated nadir-viewing orbital backscatter UV measurements. Journal of Geophysical Research, 2007, 112, .	3.3	1