

# Pedro A Viterbo

## List of Publications by Year in descending order

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74  
papers

17,246  
citations

38742

50  
h-index

76900

74  
g-index

77  
all docs

77  
docs citations

77  
times ranked

14135  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of European Land Data Assimilation System (ELDAS) products using in situ observations. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 60, 1023.	1.7	19
2	Iberia01: a new gridded dataset of daily precipitation and temperatures over Iberia. <i>Earth System Science Data</i> , 2019, 11, 1947-1956.	9.9	51
3	The Numerics of Physical Parametrization in the ECMWF Model. <i>Frontiers in Earth Science</i> , 2018, 6, .	1.8	28
4	The WFDEI meteorological forcing data set: WATCH Forcing Data methodology applied to ERA-Interim reanalysis data. <i>Water Resources Research</i> , 2014, 50, 7505-7514.	4.2	816
5	Natural land carbon dioxide exchanges in the ECMWF integrated forecasting system: Implementation and offline validation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5923-5946.	3.3	113
6	Complexity of Snow Schemes in a Climate Model and Its Impact on Surface Energy and Hydrology. <i>Journal of Hydrometeorology</i> , 2012, 13, 521-538.	1.9	57
7	Assessment of the ENSEMBLES regional climate models in the representation of precipitation variability and extremes over Portugal. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	54
8	Evaluation of global precipitation data sets over the Iberian Peninsula. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	144
9	Land-atmosphere coupling associated with snow cover. <i>Geophysical Research Letters</i> , 2011, 38, .	4.0	48
10	Snow cover sensitivity to horizontal resolution, parameterizations, and atmospheric forcing in a land surface model. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	41
11	A revised land hydrology in the ECMWF model: a step towards daily water flux prediction in a fully-closed water cycle. <i>Hydrological Processes</i> , 2011, 25, 1046-1054.	2.6	77
12	The Satellite Application Facility for Land Surface Analysis. <i>International Journal of Remote Sensing</i> , 2011, 32, 2725-2744.	2.9	207
13	Multimodel Estimate of the Global Terrestrial Water Balance: Setup and First Results. <i>Journal of Hydrometeorology</i> , 2011, 12, 869-884.	1.9	466
14	Creation of the WATCH Forcing Data and Its Use to Assess Global and Regional Reference Crop Evaporation over Land during the Twentieth Century. <i>Journal of Hydrometeorology</i> , 2011, 12, 823-848.	1.9	746
15	An Improved Snow Scheme for the ECMWF Land Surface Model: Description and Offline Validation. <i>Journal of Hydrometeorology</i> , 2010, 11, 899-916.	1.9	221
16	Statistical bias correction of global simulated daily precipitation and temperature for the application of hydrological models. <i>Journal of Hydrology</i> , 2010, 395, 199-215.	5.4	642
17	EC-Earth. <i>Bulletin of the American Meteorological Society</i> , 2010, 91, 1357-1364.	3.3	474
18	Estimation of downward longwave radiation at the surface combining remotely sensed data and NWP data. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	26

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19	A Revised Hydrology for the ECMWF Model: Verification from Field Site to Terrestrial Water Storage and Impact in the Integrated Forecast System. <i>Journal of Hydrometeorology</i> , 2009, 10, 623-643.	1.9	695
20	Towards a Kalman Filter based soil moisture analysis system for the operational ECMWF Integrated Forecast System. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	77
21	Evaluation of forest snow processes models (SnowMIP2). <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	290
22	ERA-40 reanalysis hydrological applications in the characterization of regional drought. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	47
23	Analysis of Soil Moisture Changes in Europe during a Single Growing Season in a New ECMWF Soil Moisture Assimilation System. <i>Journal of Hydrometeorology</i> , 2008, 9, 116-131.	1.9	27
24	Axial Atmospheric Angular Momentum Budget at Diurnal and Subdiurnal Periodicities. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 156-171.	1.7	7
25	Assimilation of Screen-Level Variables in ECMWF's Integrated Forecast System: A Study on the Impact on the Forecast Quality and Analyzed Soil Moisture. <i>Monthly Weather Review</i> , 2007, 135, 300-314.	1.4	106
26	Assessing land-surface-atmosphere coupling in the ERA-40 reanalysis with boreal forest data. <i>Agricultural and Forest Meteorology</i> , 2006, 140, 365-382.	4.8	27
27	Basin-scale water-balance estimates of terrestrial water storage variations from ECMWF operational forecast analysis. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	36
28	GCM sensitivity experiments with locally modified land surface properties over tropical South America. <i>Climate Dynamics</i> , 2006, 26, 729-749.	3.8	3
29	The European Summer of 2003: Sensitivity to Soil Water Initial Conditions. <i>Journal of Climate</i> , 2006, 19, 3659-3680.	3.2	168
30	Land-surface, boundary layer, and cloud-field coupling over the southwestern Amazon in ERA-40. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	67
31	The ERA-40 reanalysis. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2005, 131, 2961-3012.	2.7	6,198
32	Evaluation of Reanalysis Soil Moisture Simulations Using Updated Chinese Soil Moisture Observations. <i>Journal of Hydrometeorology</i> , 2005, 6, 180-193.	1.9	106
33	Hydrometeorology of the Amazon in ERA-40. <i>Journal of Hydrometeorology</i> , 2005, 6, 764-774.	1.9	51
34	GRACE-derived terrestrial water storage depletion associated with the 2003 European heat wave. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	136
35	Total basin discharge for the Amazon and Mississippi River basins from GRACE and a land-atmosphere water balance. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	154
36	Basin scale estimates of evapotranspiration using GRACE and other observations. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	405

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37	Comparison of trends and low-frequency variability in CRU, ERA-40, and NCEP/NCAR analyses of surface air temperature. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	291
38	Inferring Changes in Terrestrial Water Storage Using ERA-40 Reanalysis Data: The Mississippi River Basin. <i>Journal of Climate</i> , 2004, 17, 2039-2057.	3.2	118
39	The Rhône-Aggregation Land Surface Scheme Intercomparison Project: An Overview. <i>Journal of Climate</i> , 2004, 17, 187-208.	3.2	178
40	The Usage of Screen-Level Parameters and Microwave Brightness Temperature for Soil Moisture Analysis. <i>Journal of Hydrometeorology</i> , 2004, 5, 516-531.	1.9	57
41	A Proposed Structure for Coupling Tiled Surfaces with the Planetary Boundary Layer. <i>Journal of Hydrometeorology</i> , 2004, 5, 1271-1278.	1.9	95
42	ECMWF's Global Snow Analysis: Assessment and Revision Based on Satellite Observations. <i>Journal of Applied Meteorology and Climatology</i> , 2004, 43, 1282-1294.	1.7	63
43	Impact of leaf area index seasonality on the annual land surface evaporation in a global circulation model. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	85
44	Intercomparison of water and energy budgets for five Mississippi subbasins between ECMWF reanalysis (ERA-40) and NASA Data Assimilation Office fvGCM for 1990-1999. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	60
45	Simulation of high-latitude hydrological processes in the Torne-Kalix basin: PILPS Phase 2(e). <i>Global and Planetary Change</i> , 2003, 38, 1-30.	3.5	194
46	Simulation of high latitude hydrological processes in the Torne-Kalix basin: PILPS Phase 2(e). <i>Global and Planetary Change</i> , 2003, 38, 31-53.	3.5	106
47	The Torne-Kalix PILPS 2(e) experiment as a test bed for modifications to the ECMWF land surface scheme. <i>Global and Planetary Change</i> , 2003, 38, 165-173.	3.5	70
48	Clear-Sky Window Channel Radiances: A Comparison between Observations and the ECMWF Model. <i>Journal of Applied Meteorology and Climatology</i> , 2003, 42, 1463-1479.	1.7	29
49	Evaluation of the ERA-40 Surface Water Budget and Surface Temperature for the Mackenzie River Basin. <i>Journal of Hydrometeorology</i> , 2003, 4, 1194-1211.	1.9	90
50	Comparison of land surface hydrology in regional climate simulations of the Baltic Sea catchment. <i>Journal of Hydrology</i> , 2002, 255, 169-193.	5.4	23
51	Hydrological Budgets and Surface Energy Balance of Seven Subbasins of the Mackenzie River from the ECMWF Model. <i>Journal of Hydrometeorology</i> , 2000, 1, 47-60.	1.9	19
52	Evaluation of the Optimum Interpolation and Nudging Techniques for Soil Moisture Analysis Using FIFE Data. <i>Monthly Weather Review</i> , 2000, 128, 1733-1756.	1.4	149
53	Soil moisture simulations in revised AMIP models. <i>Journal of Geophysical Research</i> , 2000, 105, 26635-26644.	3.3	34
54	Impact of the ECMWF reanalysis soil water on forecasts of the July 1993 Mississippi flood. <i>Journal of Geophysical Research</i> , 1999, 104, 19361-19366.	3.3	60

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55	Soil-moisture nudging experiments with a single-column version of the ECMWF model. Quarterly Journal of the Royal Meteorological Society, 1999, 125, 1879-1902.	2.7	13
56	The representation of soil moisture freezing and its impact on the stable boundary layer. Quarterly Journal of the Royal Meteorological Society, 1999, 125, 2401-2426.	2.7	248
57	Basin-scale surface water and energy budgets for the Mississippi from the ECMWF reanalysis. Journal of Geophysical Research, 1999, 104, 19293-19306.	3.3	56
58	Impact on ECMWF forecasts of changes to the albedo of the boreal forests in the presence of snow. Journal of Geophysical Research, 1999, 104, 27803-27810.	3.3	112
59	The ECMWF implementation of three-dimensional variational assimilation (3D-Var). III: Experimental results. Quarterly Journal of the Royal Meteorological Society, 1998, 124, 1831-1860.	2.7	114
60	A proposal for a general interface between land surface schemes and general circulation models. Global and Planetary Change, 1998, 19, 261-276.	3.5	101
61	Evaluation of land-surface interaction in ECMWF and NCEP/NCAR reanalysis models over grassland (FIFE) and boreal forest (BOREAS). Journal of Geophysical Research, 1998, 103, 23079-23085.	3.3	58
62	Surface Energy and Water Balance for the Arkansasâ€“Red River Basin from the ECMWF Reanalysis. Journal of Climate, 1998, 11, 2881-2897.	3.2	52
63	Comparison of the Land-Surface Interaction in the ECMWF Reanalysis Model with the 1987 FIFE Data. Monthly Weather Review, 1998, 126, 186-198.	1.4	34
64	The land surface-atmosphere interaction: A review based on observational and global modeling perspectives. Journal of Geophysical Research, 1996, 101, 7209-7225.	3.3	600
65	Comments on â€œObservation of a monthly variation in global surface temperature dataâ€“. Geophysical Research Letters, 1996, 23, 693-694.	4.0	1
66	The Anomalous Rainfall over the United States during July 1993: Sensitivity to Land Surface Parameterization and Soil Moisture Anomalies. Monthly Weather Review, 1996, 124, 362-383.	1.4	424
67	Ocean Waves and the Atmospheric Climate. Journal of Climate, 1996, 9, 1269-1287.	3.2	65
68	An Improved Land Surface Parameterization Scheme in the ECMWF Model and Its Validation. Journal of Climate, 1995, 8, 2716-2748.	3.2	458
69	The sensitivity of winter evaporation to the formulation of aerodynamic resistance in the ECMWF model. Boundary-Layer Meteorology, 1994, 71, 135-149.	2.3	67
70	The impact of changes in the runoff formulation of a general circulation model on surface and near-surface parameters. Journal of Hydrology, 1994, 155, 325-336.	5.4	7
71	Coupling an ocean wave model to an atmospheric general circulation model. Climate Dynamics, 1993, 9, 63-69.	3.8	28
72	A Dynamical Interpretation of the Global Response to Equatorial pacific SST Anomalies. Journal of Climate, 1993, 6, 777-795.	3.2	45

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73	Modeling Interannual Variations of Summer Monsoons. <i>Journal of Climate</i> , 1992, 5, 399-417.	3.2	200
74	The Determination of the Surface Stress in an Atmospheric Model. <i>Monthly Weather Review</i> , 1992, 120, 2977-2985.	1.4	8