

# Philippe Lopez

## List of Publications by Year in descending order

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Version: 2024-02-01

33  
papers

12,332  
citations

257450

24  
h-index

434195

31  
g-index

33  
all docs

33  
docs citations

33  
times ranked

10608  
citing authors

#	ARTICLE	IF	CITATIONS
1	Using machine learning to predict fire ignition occurrences from lightning forecasts. <i>Meteorological Applications</i> , 2021, 28, e1973.	2.1	27
2	The ERA5 global reanalysis. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 1999-2049.	2.7	10,272
3	Forecasting the Past: Views of Earth from the Moon and Beyond. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E1190-E1200.	3.3	3
4	A Baseline for Global Weather and Climate Simulations at 1 km Resolution. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002192.	3.8	54
5	A Lightning Parameterization for the ECMWF Integrated Forecasting System. <i>Monthly Weather Review</i> , 2016, 144, 3057-3075.	1.4	45
6	Climatology of radar anomalous propagation over West Africa. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015, 123, 1-12.	1.6	20
7	Representing Equilibrium and Nonequilibrium Convection in Large-Scale Models. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 734-753.	1.7	305
8	Characteristics of Occasional Poor Medium-Range Weather Forecasts for Europe. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 1393-1405.	3.3	139
9	Experimental 4D-Var Assimilation of SYNOP Rain Gauge Data at ECMWF. <i>Monthly Weather Review</i> , 2013, 141, 1527-1544.	1.4	25
10	Linearized Physics for Data Assimilation at ECMWF. , 2013, , 251-286.		27
11	Experimental 1D + 4D-Var assimilation of CloudSat observations. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012, 138, 1196-1220.	2.7	18
12	Direct 4D-Var Assimilation of NCEP Stage IV Radar and Gauge Precipitation Data at ECMWF. <i>Monthly Weather Review</i> , 2011, 139, 2098-2116.	1.4	92
13	Direct 4D-Var assimilation of all-sky radiances. Part I: Implementation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010, 136, 1868-1885.	2.7	172
14	Direct 4D-Var assimilation of all-sky radiances. Part II: Assessment. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010, 136, 1886-1905.	2.7	93
15	A 5-yr 40-km-Resolution Global Climatology of Superrefraction for Ground-Based Weather Radars. <i>Journal of Applied Meteorology and Climatology</i> , 2009, 48, 89-110.	1.5	45
16	Lessons learnt from the operational 1D + 4D-Var assimilation of rain- and cloud-affected SSM/I observations at ECMWF. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2008, 134, 1513-1525.	2.7	46
17	Impact of SSM/I Observations Related to Moisture, Clouds, and Precipitation on Global NWP Forecast Skill. <i>Monthly Weather Review</i> , 2008, 136, 2713-2726.	1.4	34
18	Cloud and Precipitation Parameterizations in Modeling and Variational Data Assimilation: A Review. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 3766-3784.	1.7	46

#	ARTICLE	IF	CITATIONS
19	1D+4DVAR-Assimilation of NCEP Stage-IV Radar and Gauge Hourly Precipitation Data at ECMWF. Monthly Weather Review, 2007, 135, 2506-2524.	1.4	46
20	The European Centre for Medium-Range Weather Forecasts Global Rainfall Data Assimilation Experimentation. , 2007, , 447-457.		0
21	Implementation of 1D+4D-Var assimilation of precipitation-affected microwave radiances at ECMWF. I: 1D-Var. Quarterly Journal of the Royal Meteorological Society, 2006, 132, 2277-2306.	2.7	102
22	Experimental 2D-Var assimilation of ARM cloud and precipitation observations. Quarterly Journal of the Royal Meteorological Society, 2006, 132, 1325-1347.	2.7	19
23	Implementation of 1D+4D-Var assimilation of precipitation-affected microwave radiances at ECMWF. II: 4D-Var. Quarterly Journal of the Royal Meteorological Society, 2006, 132, 2307-2332.	2.7	85
24	A convection scheme for data assimilation: Description and initial tests. Quarterly Journal of the Royal Meteorological Society, 2005, 131, 409-436.	2.7	58
25	Experimental use of TRMM precipitation radar observations in 1D+4D-Var assimilation. Quarterly Journal of the Royal Meteorological Society, 2005, 131, 2473-2495.	2.7	29
26	Assimilation and Modeling of the Atmospheric Hydrological Cycle in the ECMWF Forecasting System. Bulletin of the American Meteorological Society, 2005, 86, 387-402.	3.3	143
27	The capability of 4D-Var systems to assimilate cloud-affected satellite infrared radiances. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 917-932.	2.7	57
28	Variational retrieval of temperature and humidity profiles using rain rates versus microwave brightness temperatures. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 827-852.	2.7	49
29	Validation and intercomparison of three mesoscale models on three FASTEX cloud systems: Comparison with coarse-resolution simulations. Quarterly Journal of the Royal Meteorological Society, 2003, 129, 1841-1871.	2.7	12
30	The Inclusion of 3D Prognostic Cloud and Precipitation Variables in Adjoint Calculations. Monthly Weather Review, 2003, 131, 1953-1974.	1.4	7
31	Implementation and validation of a new prognostic large-scale cloud and precipitation scheme for climate and data-assimilation purposes. Quarterly Journal of the Royal Meteorological Society, 2002, 128, 229-257.	2.7	92
32	Project to Intercompare Regional Climate Simulations (PIRCS): Description and initial results. Journal of Geophysical Research, 1999, 104, 19443-19461.	3.3	169
33	A Lagrangian Advection Scheme Using Tracer Points. Atmosphere - Ocean, 1997, 35, 171-194.	1.6	1