Pierre Gauthier

List of Publications by Year in descending order

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759233 552781 27 691 12 26 h-index citations g-index papers 28 28 28 552 docs citations times ranked citing authors all docs

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Optimal Configuration of a Farâ€Infrared Radiometer to Study the Arctic Winter Atmosphere. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031773. | 3.3 | 3 |
| 2 | Coupled Stratospheric Chemistry–Meteorology Data Assimilation. Part II: Weak and Strong Coupling. Atmosphere, 2019, 10, 798. | 2.3 | 9 |
| 3 | Convergence Issues in the Estimation of Interchannel Correlated Observation Errors in Infrared Radiance Data. Monthly Weather Review, 2018, 146, 3227-3239. | 1.4 | 8 |
| 4 | Near-Surface Wind Observation Impact on Forecasts: Temporal Propagation of the Analysis Increment. Monthly Weather Review, 2017, 145, 1549-1564. | 1.4 | 3 |
| 5 | Impact of Lateral Boundary Conditions on Regional Analyses. Monthly Weather Review, 2017, 145, 1361-1379. | 1.4 | 8 |
| 6 | A geoâ€statistical observation operator for the assimilation of nearâ€surface wind data. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 2857-2868. | 2.7 | 13 |
| 7 | On the effect of boundary conditions on the Canadian Regional Climate Model: use of process tendencies. Climate Dynamics, 2015, 45, 2515-2526. | 3.8 | 3 |
| 8 | Assessment of the Impact of Observations on Analyses Derived from Observing System Experiments. Monthly Weather Review, 2012, 140, 245-257. | 1,4 | 11 |
| 9 | TICFIRE: a far infrared payload to monitor the evolution of thin ice clouds. Proceedings of SPIE, 2011, , . | 0.8 | 7 |
| 10 | Evaluation of the Impact of Observations on Analyses in 3D- and 4D-Var Based on Information Content. Monthly Weather Review, 2011, 139, 726-737. | 1.4 | 17 |
| 11 | Observability of Flow-Dependent Structure Functions for Use in Data Assimilation. Monthly Weather Review, 2011, 139, 713-725. | 1.4 | 2 |
| 12 | Convergence properties of the primal and dual forms of variational data assimilation. Quarterly Journal of the Royal Meteorological Society, 2010, 136, 107-115. | 2.7 | 15 |
| 13 | Intercomparison of the primal and dual formulations of variational data assimilation. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 1015-1025. | 2.7 | 23 |
| 14 | Extension of 3DVAR to 4DVAR: Implementation of 4DVAR at the Meteorological Service of Canada. Monthly Weather Review, 2007, 135, 2339-2354. | 1.4 | 162 |
| 15 | Impact of the Different Components of 4DVAR on the Global Forecast System of the Meteorological Service of Canada. Monthly Weather Review, 2007, 135, 2355-2364. | 1.4 | 36 |
| 16 | Evaluation of new estimates of background- and observation-error covariances for variational assimilation. Quarterly Journal of the Royal Meteorological Society, 2005, 131, 3373-3383. | 2.7 | 23 |
| 17 | Operational Implementation of Variational Data Assimilation. , 2003, , 167-176. | | 3 |
| 18 | Quality Control: Methodology and Applications. , 2003, , 177-187. | | 7 |

| # | Article | IF | CITATION |
|----|--|-----|----------|
| 19 | Impact of the Digital Filter as a Weak Constraint in the Preoperational 4DVAR Assimilation System of MĀ©téo-France. Monthly Weather Review, 2001, 129, 2089-2102. | 1.4 | 126 |
| 20 | Implementation of a 3D variational data assimilation system at the Canadian meteorological centre. Part II: The regional analysis. Atmosphere - Ocean, 1999, 37, 281-307. | 1.6 | 34 |
| 21 | A validation of the incremental formulation of 4D variational data assimilation in a nonlinear barotropic flow. Tellus, Series A: Dynamic Meteorology and Oceanography, 1998, 50, 557-572. | 1.7 | 8 |
| 22 | A validation of the incremental formulation of 4D variational data assimilation in a nonlinear barotropic flow. Tellus, Series A: Dynamic Meteorology and Oceanography, 1998, 50, 557-572. | 1.7 | 21 |
| 23 | Temporal Accumulation of First-Order Linearization Error for Semi-Lagrangian Passive Advection. Monthly Weather Review, 1997, 125, 1296-1311. | 1.4 | 8 |
| 24 | Four-dimensional data assimilation with a wide range of scales. Tellus, Series A: Dynamic Meteorology and Oceanography, 1995, 47, 974-997. | 1.7 | 26 |
| 25 | Four-dimensional data assimilation with a wide range of scales. Tellus, Series A: Dynamic Meteorology and Oceanography, 1995, 47, 974-997. | 1.7 | 39 |
| 26 | Assimilation of Simulated Wind Lidar Data with a Kalman Filter. Monthly Weather Review, 1993, 121, 1803-1820. | 1.4 | 74 |
| 27 | Effect of Detuning on the Development of Marginally Unstable Baroclinic Vortices. Journals of the Atmospheric Sciences, 1990, 47, 999-1011. | 1.7 | 1 |