Stephen E Cohn

List of Publications by Year
in descending order

31 papers	3,343 citations	361296 20 h-index	454834 30 g-index
34 all docs	34 docs citations	34 times ranked	2285 citing authors

#	Article	IF	Citations
1	Construction of correlation functions in two and three dimensions. Quarterly Journal of the Royal Meteorological Society, 1999, 125, 723-757.	1.0	1,471
2	An Introduction to Estimation Theory (gtSpecial IssueItData Assimilation in Meteology and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 To	0.7	320
3	Assessing the Effects of Data Selection with the DAO Physical-Space Statistical Analysis System*. Monthly Weather Review, 1998, 126, 2913-2926.	0.5	222
4	On the representation error in data assimilation. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 1257-1278.	1.0	202
5	Suboptimal Schemes for Atmospheric Data Assimilation Based on the Kalman Filter. Monthly Weather Review, 1994, 122, 2530-2557.	0.5	109
6	Assimilation of Stratospheric Chemical Tracer Observations Using a Kalman Filter. Part I: Formulation. Monthly Weather Review, 2000, 128, 2654-2671.	0.5	109
7	The Behavior of Forecast Error Covariances for a Kalman Filter in Two Dimensions. Monthly Weather Review, 1991, 119, 1757-1785.	0.5	107
8	A Fixed-Lag Kalman Smoother for Retrospective Data Assimilation. Monthly Weather Review, 1994, 122, 2838-2867.	0.5	103
9	Approximate Data Assimilation Schemes for Stable and Unstable Dynamics. Journal of the Meteorological Society of Japan, 1996, 74, 63-75.	0.7	99
10	Dynamics of Short-Term Univariate Forecast Error Covariances. Monthly Weather Review, 1993, 121, 3123-3149.	0.5	79
11	Treatment of Observation Error due to Unresolved Scales in Atmospheric Data Assimilation. Monthly Weather Review, 2006, 134, 2900-2915.	0.5	75
12	Observability of Discretized Partial Differential Equations. SIAM Journal on Numerical Analysis, 1988, 25, 586-617.	1.1	65
13	An efficient algorithm for estimating noise covariances in distributed systems. IEEE Transactions on Automatic Control, 1985, 30, 1057-1065.	3.6	62
14	Conservation of Mass and Preservation of Positivity with Ensemble-Type Kalman Filter Algorithms. Monthly Weather Review, 2014, 142, 755-773.	0.5	55
15	Construction and application of covariance functions with variable length-fields. Quarterly Journal of the Royal Meteorological Society, 2006, 132, 1815-1838.	1.0	47
16	Parallel Implementation of a Kalman Filter for Constituent Data Assimilation. Monthly Weather Review, 1997, 125, 1674-1686.	0.5	38
17	The Anomalous 2019 Antarctic Ozone Hole in the GEOS Constituent Data Assimilation System With MLS Observations. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033335.	1.2	34
18	An analysis of the vertical structure equation for arbitrary thermal profiles. Quarterly Journal of the Royal Meteorological Society, 1989, 115, 143-171.	1.0	27

#	ARTICLE	IF	CITATIONS
19	Data Assimilation in the Ocean and in the Atmosphere : What Should be Next? (gtSpecial IssueltData) Tj ETQq1 1 0.784314 rgBT /Overl... Society of Japan, 1997, 75, 489-496.	0.7	24
20	Suboptimal Schemes for Retrospective Data Assimilation Based on the Fixed-Lag Kalman Smoother. Monthly Weather Review, 1998, 126, 2274-2286.	0.5	24
21	The GEOS-3 Retrospective Data Assimilation System: The 6-Hour Lag Case. Monthly Weather Review, 2003, 131, 2129-2150.	0.5	20
22	Conditioning of the Stable, Discrete-Time Lyapunov Operator. SIAM Journal on Matrix Analysis and Applications, 2000, 22, 56-65.	0.7	12
23	Low-dimensional representation of error covariance. Tellus, Series A: Dynamic Meteorology and Oceanography, 2000, 52, 533-553.	0.8	10
24	A Lagrangian trajectory filter for constituent data assimilation. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 2315-2334.	1.0	6
25	A study on assimilating potential vorticity data. Tellus, Series A: Dynamic Meteorology and Oceanography, 1998, 50, 490-506.	0.8	5
26	Numerical treatment of degenerate diffusion equations via Feller's boundary classification, and applications. Numerical Methods for Partial Differential Equations, 2012, 28, 807-833.	2.0	5
27	Eliminating grid-orientation errors in alternating-direction implicit schemes. Applied Numerical Mathematics, 1991, 8, 1-10.	1.2	3
28	Tangent linear analysis of the Mosaic land surface model. Journal of Geophysical Research, 2003, 108, .	3.3	3
29	The Principle of Energetic Consistency in Data Assimilation. , 2010, , 137-216.		3
30	A factored implicit scheme for numerical weather prediction. Communications on Pure and Applied Mathematics, 1985, 38, 503-517.	1.2	2
31	Low-dimensional representation of error covariance. Tellus, Series A: Dynamic Meteorology and Oceanography, 2000, 52, 533-553.	0.8	2