

Stephen E Cohn

List of Publications by Year in descending order

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Version: 2024-02-01

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	The Anomalous 2019 Antarctic Ozone Hole in the GEOS Constituent Data Assimilation System With MLS Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD033335.	1.2	34
2	On the representation error in data assimilation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 1257-1278.	1.0	202
3	Conservation of Mass and Preservation of Positivity with Ensemble-Type Kalman Filter Algorithms. <i>Monthly Weather Review</i> , 2014, 142, 755-773.	0.5	55
4	Numerical treatment of degenerate diffusion equations via Feller's boundary classification, and applications. <i>Numerical Methods for Partial Differential Equations</i> , 2012, 28, 807-833.	2.0	5
5	The Principle of Energetic Consistency in Data Assimilation. , 2010, , 137-216.		3
6	Treatment of Observation Error due to Unresolved Scales in Atmospheric Data Assimilation. <i>Monthly Weather Review</i> , 2006, 134, 2900-2915.	0.5	75
7	Construction and application of covariance functions with variable length-fields. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2006, 132, 1815-1838.	1.0	47
8	A Lagrangian trajectory filter for constituent data assimilation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2004, 130, 2315-2334.	1.0	6
9	Tangent linear analysis of the Mosaic land surface model. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	3
10	The GEOS-3 Retrospective Data Assimilation System: The 6-Hour Lag Case. <i>Monthly Weather Review</i> , 2003, 131, 2129-2150.	0.5	20
11	Low-dimensional representation of error covariance. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2000, 52, 533-553.	0.8	2
12	Low-dimensional representation of error covariance. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2000, 52, 533-553.	0.8	10
13	Conditioning of the Stable, Discrete-Time Lyapunov Operator. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2000, 22, 56-65.	0.7	12
14	Assimilation of Stratospheric Chemical Tracer Observations Using a Kalman Filter. Part I: Formulation. <i>Monthly Weather Review</i> , 2000, 128, 2654-2671.	0.5	109
15	Construction of correlation functions in two and three dimensions. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1999, 125, 723-757.	1.0	1,471
16	A study on assimilating potential vorticity data. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1998, 50, 490-506.	0.8	5
17	Suboptimal Schemes for Retrospective Data Assimilation Based on the Fixed-Lag Kalman Smoother. <i>Monthly Weather Review</i> , 1998, 126, 2274-2286.	0.5	24
18	Assessing the Effects of Data Selection with the DAO Physical-Space Statistical Analysis System*. <i>Monthly Weather Review</i> , 1998, 126, 2913-2926.	0.5	222

#	ARTICLE	IF	CITATIONS
19	Parallel Implementation of a Kalman Filter for Constituent Data Assimilation. Monthly Weather Review, 1997, 125, 1674-1686.	0.5	38
20	An Introduction to Estimation Theory (Special Issue on Data Assimilation in Meteorology and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 T	0.7	320
21	Data Assimilation in the Ocean and in the Atmosphere : What Should be Next? (Special Issue on Data) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 702 T Society of Japan, 1997, 75, 489-496.	0.7	24
22	Approximate Data Assimilation Schemes for Stable and Unstable Dynamics. Journal of the Meteorological Society of Japan, 1996, 74, 63-75.	0.7	99
23	A Fixed-Lag Kalman Smoother for Retrospective Data Assimilation. Monthly Weather Review, 1994, 122, 2838-2867.	0.5	103
24	Suboptimal Schemes for Atmospheric Data Assimilation Based on the Kalman Filter. Monthly Weather Review, 1994, 122, 2530-2557.	0.5	109
25	Dynamics of Short-Term Univariate Forecast Error Covariances. Monthly Weather Review, 1993, 121, 3123-3149.	0.5	79
26	The Behavior of Forecast Error Covariances for a Kalman Filter in Two Dimensions. Monthly Weather Review, 1991, 119, 1757-1785.	0.5	107
27	Eliminating grid-orientation errors in alternating-direction implicit schemes. Applied Numerical Mathematics, 1991, 8, 1-10.	1.2	3
28	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
29	Observability of Discretized Partial Differential Equations. SIAM Journal on Numerical Analysis, 1988, 25, 586-617.	1.1	65
30	A factored implicit scheme for numerical weather prediction. Communications on Pure and Applied Mathematics, 1985, 38, 503-517.	1.2	2
31	An efficient algorithm for estimating noise covariances in distributed systems. IEEE Transactions on Automatic Control, 1985, 30, 1057-1065.	3.6	62