Geir Evensen

List of Publications by Year
in descending order

36 papers	13,059 citations	279487 23 h-index	414034 32 g-index
39 all docs	39 docs citations	39 times ranked	6310 citing authors

#	Article	IF	Citations
1	Sequential data assimilation with a nonlinear quasi-geostrophic model using Monte Carlo methods to forecast error statistics. Journal of Geophysical Research, 1994, 99, 10143.	3.3	3,876
2	The Ensemble Kalman Filter: theoretical formulation and practical implementation. Ocean Dynamics, 2003, 53, 343-367.	0.9	3,199
3	Analysis Scheme in the Ensemble Kalman Filter. Monthly Weather Review, 1998, 126, 1719-1724.	0.5	1,479
4	Data Assimilation. , 2009, , .		839
5	An Ensemble Kalman Smoother for Nonlinear Dynamics. Monthly Weather Review, 2000, 128, 1852-1867.	0.5	436
6	Sampling strategies and square root analysis schemes for the EnKF. Ocean Dynamics, 2004, 54, 539-560.	0.9	414
7	The ensemble Kalman filter for combined state and parameter estimation. IEEE Control Systems, 2009, 29, 83-104.	1.0	407
8	Data Assimilation and Inverse Methods in Terms of a Probabilistic Formulation. Monthly Weather Review, 1996, 124, 2898-2913.	0.5	378
9	Data assimilation in the geosciences: An overview of methods, issues, and perspectives. Wiley Interdisciplinary Reviews: Climate Change, 2018, 9, e535.	3.6	292
10	Assimilation of Geosat Altimeter Data for the Agulhas Current Using the Ensemble Kalman Filter with a Quasigeostrophic Model. Monthly Weather Review, 1996, 124, 85-96.	0.5	286
11	Sequential Data Assimilation Techniques in Oceanography. International Statistical Review, 2003, 71, 223-241.	1.1	248
12	Advanced Data Assimilation for Strongly Nonlinear Dynamics. Monthly Weather Review, 1997, 125, 1342-1354.	0.5	197
13	Incorporating 4D Seismic Data in Reservoir Simulation Models Using Ensemble Kalman Filter. SPE Journal, 2007, 12, 282-292.	1.7	190
14	Inverse methods and data assimilation in nonlinear ocean models. Physica D: Nonlinear Phenomena, 1994, 77, 108-129.	1.3	125
15	Analysis of iterative ensemble smoothers for solving inverse problems. Computational Geosciences, 2018, 22, 885-908.	1.2	121
16	History Matching Using the Ensemble Kalman Filter on a North Sea Field Case. SPE Journal, 2008, 13, 382-391.	1.7	82
17	An Ensemble Kalman filter with a 1-D marine ecosystem model. Journal of Marine Systems, 2002, 36, 75-100.	0.9	68
18	Horizontal and Vertical Structure of the Representer Functions for Sea Surface Measurements in a Coastal Circulation Model. Journal of Physical Oceanography, 2000, 30, 2627-2635.	0.7	47

#	Article	IF	Citations
19	Reservoir Management Under Geological Uncertainty Using Fast Model Update. , 2015, , .		33
20	Parameter estimation solving a weak constraint variational formulation for an Ekman model. Journal of Geophysical Research, 1997, 102, 12479-12491.	3.3	32
21	Satellite earth observation in operational oceanography. Coastal Engineering, 2000, 41, 155-176.	1.7	30
22	A hybrid coordinate ocean model for shelf sea simulation. Ocean Modelling, 2006, 13, 221-237.	1.0	28
23	Accounting for model errors in iterative ensemble smoothers. Computational Geosciences, 2019, 23, 761-775.	1.2	28
24	Efficient Implementation of an Iterative Ensemble Smoother for Data Assimilation and Reservoir History Matching. Frontiers in Applied Mathematics and Statistics, 2019, 5, .	0.7	27
25	Revising the stochastic iterative ensemble smoother. Nonlinear Processes in Geophysics, 2019, 26, 325-338.	0.6	26
26	Solving for the Generalized Inverse of the Lorenz Model (gtSpecial IssueltData Assimilation in) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 1997, 75, 229-243.	0.7	25
27	Conditioning reservoir models on rate data using ensemble smoothers. Computational Geosciences, 2018, 22, 1251-1270.	1.2	25
28	Correlation-Based Adaptive Localization for Ensemble-Based History Matching: Applied To the Norne Field Case Study. SPE Reservoir Evaluation and Engineering, 2019, 22, 1084-1109.	1.1	24
29	Efficiency of high order numerical schemes for momentum advection. Journal of Marine Systems, 2007, 67, 31-46.	0.9	22
30	Application of ensemble-based techniques in fish stock assessment. Sarsia, 2001, 86, 517-526.	0.5	20
31	Mesoscale modeling study of the oceanographic conditions off the southwest coast of India. Journal of Earth System Science, 2002, 111, 321-337.	0.6	13
32	Handling Big Models and Big Data Sets in History-Matching Problems through an Adaptive Local Analysis Scheme. SPE Journal, 2021, 26, 973-992.	1.7	13
33	An international initiative of predicting the SARS-CoV-2 pandemic using ensemble data assimilation. , 2021, 3, 413.		9
34	Formulating the history matching problem with consistent error statistics. Computational Geosciences, 2021, 25, 945-970.	1.2	5
35	Subspace Ensemble Randomized Maximum Likelihood with Local Analysis for Time-Lapse-Seismic-Data Assimilation. SPE Journal, 2021, 26, 1011-1031.	1.7	4
36	A study of disproportionately affected populations by race/ethnicity during the SARS-CoV-2 pandemic using multi-population SEIR modeling and ensemble data assimilation. , 2021, 3, 479.		1