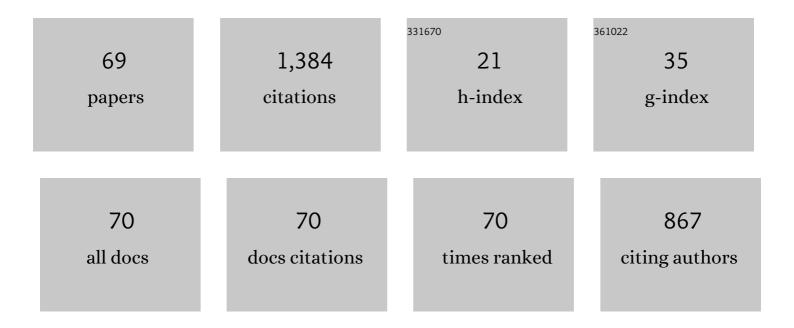
## Xiaodong Luo

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Characterizing pseudoperiodic time series through the complex network approach. Physica D: Nonlinear Phenomena, 2008, 237, 2856-2865.	2.8	183
2	lterative Ensemble Smoother as an Approximate Solution to a Regularized Minimum-Average-Cost Problem: Theory and Applications. SPE Journal, 2015, 20, 962-982.	3.1	98
3	Particle Kalman Filtering: A Nonlinear Bayesian Framework for Ensemble Kalman Filters. Monthly Weather Review, 2012, 140, 528-542.	1.4	88
4	Ensemble Kalman filter with the unscented transform. Physica D: Nonlinear Phenomena, 2009, 238, 549-562.	2.8	58
5	An Ensemble 4D-Seismic History-Matching Framework With Sparse Representation Based On Wavelet Multiresolution Analysis. SPE Journal, 2017, 22, 985-1010.	3.1	55
6	Mitigating Observation Perturbation Sampling Errors in the Stochastic EnKF. Monthly Weather Review, 2015, 143, 2918-2936.	1.4	52
7	Correlation-Based Adaptive Localization With Applications to Ensemble-Based 4D-Seismic History Matching. SPE Journal, 2018, 23, 396-427.	3.1	52
8	Detecting chaos in pseudoperiodic time series without embedding. Physical Review E, 2006, 73, 016216.	2.1	50
9	ON A DYNAMICAL SYSTEM WITH MULTIPLE CHAOTIC ATTRACTORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 3235-3251.	1.7	45
10	Robust Ensemble Filtering and Its Relation to Covariance Inflation in the Ensemble Kalman Filter. Monthly Weather Review, 2011, 139, 3938-3953.	1.4	44
11	Efficient big data assimilation through sparse representation: A 3D benchmark case study in petroleum engineering. PLoS ONE, 2018, 13, e0198586.	2.5	37
12	History Matching the Full Norne Field Model Using Seismic and Production Data. SPE Journal, 2019, 24, 1452-1467.	3.1	35
13	Automatic and adaptive localization for ensemble-based history matching. Journal of Petroleum Science and Engineering, 2020, 184, 106559.	4.2	33
14	Detecting temporal and spatial correlations in pseudoperiodic time series. Physical Review E, 2007, 75, 016218.	2.1	32
15	Estimating observation error covariance matrix of seismic data from a perspective of image denoising. Computational Geosciences, 2017, 21, 205-222.	2.4	31
16	Simultaneous assimilation of production and seismic data: application to the Norne field. Computational Geosciences, 2020, 24, 907-920.	2.4	30
17	Surrogate test to distinguish between chaotic and pseudoperiodic time series. Physical Review E, 2005, 71, 026230.	2.1	29
18	Scaled unscented transform Gaussian sum filter: Theory and application. Physica D: Nonlinear Phenomena, 2010, 239, 684-701.	2.8	27

#	Article	IF	CITATIONS
19	Data Assimilation within the Advanced Circulation (ADCIRC) Modeling Framework for Hurricane Storm Surge Forecasting. Monthly Weather Review, 2012, 140, 2215-2231.	1.4	26
20	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.	1.8	24
21	Ensemble-based kernel learning for a class of data assimilation problems with imperfect forward simulators. PLoS ONE, 2019, 14, e0219247.	2.5	22
22	Assessing a robust ensemble-based Kalman filter for efficient ecosystem data assimilation of the Cretan Sea. Journal of Marine Systems, 2013, 125, 90-100.	2.1	20
23	4D seismic history matching: Assessing the use of a dictionary learning based sparse representation method. Journal of Petroleum Science and Engineering, 2020, 195, 107763.	4.2	20
24	Improving Short-Range Ensemble Kalman Storm Surge Forecasting Using Robust Adaptive Inflation. Monthly Weather Review, 2013, 141, 2705-2720.	1.4	19
25	Covariance Inflation in the Ensemble Kalman Filter: A Residual Nudging Perspective and Some Implications. Monthly Weather Review, 2013, 141, 3360-3368.	1.4	19
26	A Comparison of Ensemble Kalman Filters for Storm Surge Assimilation. Monthly Weather Review, 2014, 142, 2899-2914.	1.4	19
27	A decision support system for multi-target geosteering. Journal of Petroleum Science and Engineering, 2019, 183, 106381.	4.2	18
28	Novel iterative ensemble smoothers derived from a class of generalized cost functions. Computational Geosciences, 2021, 25, 1159-1189.	2.4	16
29	Ensemble Kalman Filtering with Residual Nudging: An Extension to State Estimation Problems with Nonlinear Observation Operators. Monthly Weather Review, 2014, 142, 3696-3712.	1.4	14
30	Ensemble Kalman Filtering with a Divided State-Space Strategy for Coupled Data Assimilation Problems*. Monthly Weather Review, 2014, 142, 4542-4558.	1.4	13
31	Efficient particle filtering through residual nudging. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 557-572.	2.7	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.	3.1	13
33	Ensemble Kalman filtering with residual nudging. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 64, 17130.	1.7	12
34	Accounting for model errors of rock physics models in 4D seismic history matching problems: A perspective of machine learning. Journal of Petroleum Science and Engineering, 2021, 196, 107961.	4.2	11
35	An Ensemble 4D Seismic History Matching Framework with Wavelet Multiresolution Analysis - A 3D Benchmark Case Study. , 2016, , .		11
36	Reducing colored noise for chaotic time series in the local phase space. Physical Review E, 2007, 76, 026211.	2.1	9

#	Article	IF	CITATIONS
37	An Adjoint-Based Adaptive Ensemble Kalman Filter. Monthly Weather Review, 2013, 141, 3343-3359.	1.4	9
38	Toward an enhanced Bayesian estimation framework for multiphase flow soft-sensing. Inverse Problems, 2014, 30, 114012.	2.0	9
39	Testing for nonlinearity in time series without the Fourier transform. Physical Review E, 2005, 72, 055201.	2.1	7
40	Optimal phase-space projection for noise reduction. Physical Review E, 2005, 72, 046710.	2.1	7
41	On a nonlinear Kalman filter with simplified divided difference approximation. Physica D: Nonlinear Phenomena, 2012, 241, 671-680.	2.8	7
42	Estimation of Production Rates by Use of Transient Well-Flow Modeling and the Auxiliary Particle Filter: Full-Scale Applications. SPE Production and Operations, 2016, 31, 163-175.	0.6	7
43	Data Driven Adaptive Localization With Applications To Ensemble-Based 4D Seismic History Matching. , 2017, , .		7
44	Time-lapse CSEM reservoir monitoring of the Norne field with vertical dipoles. , 2016, , .		6
45	An Ensemble 4D Seismic History Matching Framework with Sparse Representation Based on Wavelet Multiresolution Analysis. , 2016, , .		5
46	Ensemble based 4D seismic history matching using a sparse representation of AVA data. , 2016, , .		5
47	History Matching Of Real Production And Seismic Data In The Norne Field. , 2018, , .		5
48	An Interactive Decision Support System for Geosteering Operations. , 2018, , .		4
49	Data assimilation with multiple types of observation boreholes via the ensemble Kalman filter embedded within stochastic moment equations. Hydrology and Earth System Sciences, 2021, 25, 1689-1709.	4.9	4
50	Towards Automatic And Adaptive Localization For Ensemble-Based History Matching. , 2018, , .		4
51	Reply to "Comment on â€~Ensemble Kalman filter with the unscented transformâ€â€™. Physica D: Nonlinear Phenomena, 2010, 239, 1662-1664.	2.8	3
52	Sparse Representation of 4D Seismic Signal Based on Dictionary Learning. , 2019, , .		3
53	Data assimilation with soft constraints (DASC) through a generalized iterative ensemble smoother. Computational Geosciences, 2022, 26, 571-594.	2.4	3
54	Improving pseudo-optimal Kalman-gain localization using the random shuffle method. Journal of Petroleum Science and Engineering, 2022, 215, 110589.	4.2	3

#	Article	IF	CITATIONS
55	Data assimilation using Bayesian filters and B-spline geological models. Journal of Physics: Conference Series, 2011, 290, 012004.	0.4	2
56	Estimation of Pressure-Saturation and Porosity Fields from Seismic AVA Data Using an Ensemble Based Method. , 2017, , .		2
57	Estimation of pressure-saturation and porosity fields from seismic acoustic impedance data using an ensemble-based method. , 2017, , .		1
58	Correlation-Based Adaptive Localization for Ensemble-Based History Matching: Applied to the Norne Field Case Study. , 2018, , .		1
59	Editorial: Data Science Applications to Inverse and Optimization Problems in Earth Science. Frontiers in Applied Mathematics and Statistics, 2021, 7, .	1.3	1
60	Petrophysical Parameters Inversion From Seismic Data Using An Ensemble-Based Method - A Case Study From A Compacting Reservoir. , 2018, , .		1
61	Particle Kalman Filtering: A Nonlinear Framework for Ensemble Kalman Filters. , 2010, , .		Ο
62	On Ensemble Nonlinear Kalman Filtering with Symmetric Analysis Ensembles. , 2010, , .		0
63	Accounting for Model Errors of Rock Physics Models in 4D Seismic History Matching Problems: A Perspective of Machine Learning. , 2020, , .		Ο
64	Estimating Observation Error Covariance Matrix of Seismic Data from a Perspective of Image Processing. , 2016, , .		0
65	History Matching Using an Iterative Ensemble Smoother with Correlation-Based Adaptive Localization - A Real Field Case S. , 2018, , .		0
66	Uncertainty quantification in non-linear seismic inversion: A comparison of three different methods , 2019, , .		0
67	Decoupling of changes in pressure-saturation and porosity fields from time-lapse seismic data using an ensemble based method for a compacting chalk reservoir. , 2020, , .		Ο
68	Novel Ensemble Data Assimilation Algorithms Derived from A Class of Generalized Cost Functions. , 2020, , .		0
69	Joint History Matching of Production, Tracer, and 4D Seismic Data in a 3D Field-Scale Case Study. , 2022, , .		0