Xiaodong Luo

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2746676/publications.pdf

Version: 2024-02-01

331670 361022 1,384 69 21 35 h-index citations g-index papers 70 70 70 867 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Ensemble Kalman filtering with residual nudging. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 64, 17130.	1.7	12
2	Data assimilation with soft constraints (DASC) through a generalized iterative ensemble smoother. Computational Geosciences, 2022, 26, 571-594.	2.4	3
3	Joint History Matching of Production, Tracer, and 4D Seismic Data in a 3D Field-Scale Case Study. , 2022, , .		O
4	Improving pseudo-optimal Kalman-gain localization using the random shuffle method. Journal of Petroleum Science and Engineering, 2022, 215, 110589.	4.2	3
5	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
6	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
7	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
8	Novel iterative ensemble smoothers derived from a class of generalized cost functions. Computational Geosciences, 2021, 25, 1159-1189.	2.4	16
9	Editorial: Data Science Applications to Inverse and Optimization Problems in Earth Science. Frontiers in Applied Mathematics and Statistics, 2021, 7, .	1.3	1
10	Automatic and adaptive localization for ensemble-based history matching. Journal of Petroleum Science and Engineering, 2020, 184, 106559.	4.2	33
11	Simultaneous assimilation of production and seismic data: application to the Norne field. Computational Geosciences, 2020, 24, 907-920.	2.4	30
12	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
13	Accounting for Model Errors of Rock Physics Models in 4D Seismic History Matching Problems: A Perspective of Machine Learning., 2020, , .		0
14	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,,.		0
15	Novel Ensemble Data Assimilation Algorithms Derived from A Class of Generalized Cost Functions. , 2020, , .		0
16	Ensemble-based kernel learning for a class of data assimilation problems with imperfect forward simulators. PLoS ONE, 2019, 14, e0219247.	2.5	22
17	Sparse Representation of 4D Seismic Signal Based on Dictionary Learning. , 2019, , .		3
18	A decision support system for multi-target geosteering. Journal of Petroleum Science and Engineering, 2019, 183, 106381.	4.2	18

#	Article	IF	CITATIONS
19	History Matching the Full Norne Field Model Using Seismic and Production Data. SPE Journal, 2019, 24, 1452-1467.	3.1	35
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	Uncertainty quantification in non-linear seismic inversion: A comparison of three different methods, 2019, , .		0
22	Correlation-Based Adaptive Localization With Applications to Ensemble-Based 4D-Seismic History Matching. SPE Journal, 2018, 23, 396-427.	3.1	52
23	An Interactive Decision Support System for Geosteering Operations. , 2018, , .		4
24	History Matching Of Real Production And Seismic Data In The Norne Field. , 2018, , .		5
25	Efficient big data assimilation through sparse representation: A 3D benchmark case study in petroleum engineering. PLoS ONE, 2018, 13, e0198586.	2.5	37
26	Correlation-Based Adaptive Localization for Ensemble-Based History Matching: Applied to the Norne Field Case Study. , 2018, , .		1
27	Towards Automatic And Adaptive Localization For Ensemble-Based History Matching. , 2018, , .		4
28	History Matching Using an Iterative Ensemble Smoother with Correlation-Based Adaptive Localization - A Real Field Case S. , 2018, , .		0
29	Petrophysical Parameters Inversion From Seismic Data Using An Ensemble-Based Method - A Case Study From A Compacting Reservoir. , 2018, , .		1
30	An Ensemble 4D-Seismic History-Matching Framework With Sparse Representation Based On Wavelet Multiresolution Analysis. SPE Journal, 2017, 22, 985-1010.	3.1	55
31	Data Driven Adaptive Localization With Applications To Ensemble-Based 4D Seismic History Matching. , 2017, , .		7
32	Estimating observation error covariance matrix of seismic data from a perspective of image denoising. Computational Geosciences, 2017, 21, 205-222.	2.4	31
33	Estimation of pressure-saturation and porosity fields from seismic acoustic impedance data using an ensemble-based method., 2017 ,.		1
34	Estimation of Pressure-Saturation and Porosity Fields from Seismic AVA Data Using an Ensemble Based Method. , 2017, , .		2
35	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
36	An Ensemble 4D Seismic History Matching Framework with Sparse Representation Based on Wavelet Multiresolution Analysis. , 2016 , , .		5

#	Article	IF	CITATIONS
37	Ensemble based 4D seismic history matching using a sparse representation of AVA data., 2016,,.		5
38	Time-lapse CSEM reservoir monitoring of the Norne field with vertical dipoles. , 2016, , .		6
39	An Ensemble 4D Seismic History Matching Framework with Wavelet Multiresolution Analysis - A 3D Benchmark Case Study. , 2016 , , .		11
40	Estimating Observation Error Covariance Matrix of Seismic Data from a Perspective of Image Processing. , 2016, , .		0
41	Iterative 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
42	Mitigating Observation Perturbation Sampling Errors in the Stochastic EnKF. Monthly Weather Review, 2015, 143, 2918-2936.	1.4	52
43	Ensemble Kalman Filtering with a Divided State-Space Strategy for Coupled Data Assimilation Problems*. Monthly Weather Review, 2014, 142, 4542-4558.	1.4	13
44	Toward an enhanced Bayesian estimation framework for multiphase flow soft-sensing. Inverse Problems, 2014, 30, 114012.	2.0	9
45	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
46	A Comparison of Ensemble Kalman Filters for Storm Surge Assimilation. Monthly Weather Review, 2014, 142, 2899-2914.	1.4	19
47	Efficient particle filtering through residual nudging. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 557-572.	2.7	13
48	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
49	An Adjoint-Based Adaptive Ensemble Kalman Filter. Monthly Weather Review, 2013, 141, 3343-3359.	1.4	9
50	Improving Short-Range Ensemble Kalman Storm Surge Forecasting Using Robust Adaptive Inflation. Monthly Weather Review, 2013, 141, 2705-2720.	1.4	19
51	Covariance Inflation in the Ensemble Kalman Filter: A Residual Nudging Perspective and Some Implications. Monthly Weather Review, 2013, 141, 3360-3368.	1.4	19
52	Data Assimilation within the Advanced Circulation (ADCIRC) Modeling Framework for Hurricane Storm Surge Forecasting. Monthly Weather Review, 2012, 140, 2215-2231.	1.4	26
53	Particle Kalman Filtering: A Nonlinear Bayesian Framework for Ensemble Kalman Filters. Monthly Weather Review, 2012, 140, 528-542.	1.4	88
54	On a nonlinear Kalman filter with simplified divided difference approximation. Physica D: Nonlinear Phenomena, 2012, 241, 671-680.	2.8	7

#	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	Robust Ensemble Filtering and Its Relation to Covariance Inflation in the Ensemble Kalman Filter. Monthly Weather Review, 2011, 139, 3938-3953.	1.4	44
57	Scaled unscented transform Gaussian sum filter: Theory and application. Physica D: Nonlinear Phenomena, 2010, 239, 684-701.	2.8	27
58	Reply to "Comment on â€~Ensemble Kalman filter with the unscented transformâ€â€™. Physica D: Nonlinear Phenomena, 2010, 239, 1662-1664.	2.8	3
59	Particle Kalman Filtering: A Nonlinear Framework for Ensemble Kalman Filters. , 2010, , .		0
60	On Ensemble Nonlinear Kalman Filtering with Symmetric Analysis Ensembles. , 2010, , .		0
61	Ensemble Kalman filter with the unscented transform. Physica D: Nonlinear Phenomena, 2009, 238, 549-562.	2.8	58
62	Characterizing pseudoperiodic time series through the complex network approach. Physica D: Nonlinear Phenomena, 2008, 237, 2856-2865.	2.8	183
63	Detecting temporal and spatial correlations in pseudoperiodic time series. Physical Review E, 2007, 75, 016218.	2.1	32
64	Reducing colored noise for chaotic time series in the local phase space. Physical Review E, 2007, 76, 026211.	2.1	9
65	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
66	Detecting chaos in pseudoperiodic time series without embedding. Physical Review E, 2006, 73, 016216.	2.1	50
67	Testing for nonlinearity in time series without the Fourier transform. Physical Review E, 2005, 72, 055201.	2.1	7
68	Optimal phase-space projection for noise reduction. Physical Review E, 2005, 72, 046710.	2.1	7
69	Surrogate test to distinguish between chaotic and pseudoperiodic time series. Physical Review E, 2005, 71, 026230.	2.1	29