

# Alessandra DavÃ³lio Gomes

## List of Publications by Year in descending order

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56  
papers

300  
citations

1040056

9  
h-index

1125743

13  
g-index

56  
all docs

56  
docs citations

56  
times ranked

109  
citing authors

#	ARTICLE	IF	CITATIONS
1	Probabilistic seismic history matching using binary images. Journal of Geophysics and Engineering, 2018, 15, 261-274.	1.4	19
2	A New Approach to Perform a Probabilistic and Multi-Objective History Matching. , 2014, , .		18
3	Data-driven deep-learning forecasting for oil production and pressure. Journal of Petroleum Science and Engineering, 2022, 210, 109937.	4.2	18
4	Pressure and saturation estimation from $P$ and $S$ impedances: a theoretical study. Journal of Geophysics and Engineering, 2012, 9, 447-460.	1.4	15
5	Analysis of time-lapse seismic and production data for reservoir model classification and assessment. Journal of Geophysics and Engineering, 2018, 15, 1561-1587.	1.4	15
6	Using simulation and production data to resolve ambiguity in interpreting 4D seismic inverted impedance in the Norne Field. Petroleum Geoscience, 2018, 24, 335-347.	1.5	13
7	A new framework for geostatistics-based history matching using genetic algorithm with adaptive bounds. Journal of Petroleum Science and Engineering, 2015, 127, 387-397.	4.2	12
8	A Systematic Approach to Uncertainty Reduction with a Probabilistic and Multi-Objective History Matching. , 2015, , .		12
9	Qualitative time-lapse seismic interpretation of Norne Field to assess challenges of 4D seismic attributes. The Leading Edge, 2018, 37, 754-762.	0.7	12
10	Using petro-elastic proxy model to integrate 4D seismic in ensemble based data assimilation. Journal of Petroleum Science and Engineering, 2020, 194, 107457.	4.2	11
11	A visual analytics approach to anomaly detection in hydrocarbon reservoir time series data. Journal of Petroleum Science and Engineering, 2021, 206, 108988.	4.2	10
12	Quantitative integration of 3D and 4D seismic impedance into reservoir simulation model updating in the Norne Field. Geophysical Prospecting, 2019, 67, 167-187.	1.9	9
13	A methodology to constrain pressure and saturation estimation from 4D seismic using multiple simulation models and observed data. Journal of Petroleum Science and Engineering, 2013, 105, 51-61.	4.2	8
14	Stepwise uncertainty reduction in time-lapse seismic interpretation using multi-attribute analysis. Petroleum Geoscience, 2021, 27, .	1.5	8
15	Multi-Scale Integration of 4D Seismic and Simulation Data to Improve Saturation Estimations. , 2016, , .		6
16	Investigation of production forecast biases of simulation models in a benchmark case. Oil and Gas Science and Technology, 2018, 73, 23.	1.4	6
17	Convolutional Neural Network Formulation to Compare 4-D Seismic and Reservoir Simulation Models. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3052-3065.	9.3	6
18	A methodology to calibrate water saturation estimated from 4D seismic data. Journal of Geophysics and Engineering, 2014, 11, 055001.	1.4	5

#	ARTICLE	IF	CITATIONS
19	The impact of rock and fluid uncertainties in the estimation of saturation and pressure from a 4D petro elastic inversion. Journal of Geophysics and Engineering, 2015, 12, 686-701.	1.4	5
20	A Methodology to Integrate Multiple Simulation Models and 4D Seismic Data Considering Their Uncertainties. , 2016, , .		5
21	Improving fluid modeling representation for seismic data assimilation in compositional reservoir simulation. Journal of Petroleum Science and Engineering, 2020, 194, 107446.	4.2	5
22	Reducing uncertainties of reservoir properties in an automatized process coupled with geological modeling considering scalar and spatial uncertain attributes. Journal of Petroleum Science and Engineering, 2020, 189, 106993.	4.2	5
23	4D Seismic Interpretation of the Norne Field - A Semi-quantitative Approach. , 2016, , .		5
24	Comparing different approaches of time-lapse seismic inversion. Journal of Geophysics and Engineering, 2020, 17, 929-939.	1.4	5
25	Enhancing vertical resolution with 4D seismic inversion. Journal of Petroleum Science and Engineering, 2022, 212, 110291.	4.2	5
26	Fast-Track Qualitative Interpretation of Seismic Data in a Permanent Reservoir Monitoring PRM Setting for a Brazilian Field. , 2019, , .		4
27	3D seismic data assimilation to reduce uncertainties in reservoir simulation considering model errors. Journal of Petroleum Science and Engineering, 2020, 189, 106967.	4.2	4
28	Subspace Ensemble Randomized Maximum Likelihood with Local Analysis for Time-Lapse-Seismic-Data Assimilation. SPE Journal, 2021, 26, 1011-1031.	3.1	4
29	Local History Matching Using 4D Seismic Data and Multiple Models Combination. , 2013, , .		3
30	Use of a Probabilistic and Multi-Objective History Matching for Uncertainty Reduction for the Norne Benchmark Case. , 2017, , .		3
31	Methodology to Systematically Reduce Uncertainty Assimilating Quantitatively 4D Seismic and Well Data in a Probabilistic and Multi-Objective History Matching. , 2017, , .		3
32	Semiquantitative 4D seismic interpretation integrated with reservoir simulation: Application to the Norne field. Interpretation, 2018, 6, T601-T611.	1.1	3
33	Influence of Additional Objective Functions on Uncertainty Reduction and History Matching. , 2018, , .		3
34	Multi Attribute Approach for Quantifying Competing Time Lapse Effects and Implications for Similarity Indicators in Data Assimilation. , 2020, , .		3
35	Assimilating time-lapse seismic data in the presence of significant spatially correlated model errors. Journal of Petroleum Science and Engineering, 2021, 207, 109127.	4.2	3
36	Evaluation of The Seismic Time-Lapse Acquisition Period In Reservoir Monitoring. , 2011, , .		2

#	ARTICLE	IF	CITATIONS
37	Improving the Estimation of the Chance of Success of a 4D Seismic Project Based on Representative Models. , 2015, , .		2
38	Use of Emulator and Canonical Correlation to Incorporate 4D Seismic Data in the Reduction of Uncertainty Process. , 2015, , .		2
39	Evaluation of the Discrete Latin Hypercube with Geostatistical Realizations Sampling for History Matching Under Uncertainties for the Norne Benchmark Case. , 2017, , .		2
40	Application of a Methodology to Incorporate Probabilistic Data from Two Technologies: Reservoir Simulation Models and 4D Seismic. , 2017, , .		2
41	A Proper Data Comparison for Seismic History Matching Processes. , 2019, , .		2
42	A synthetic case study of measuring the misfit between 4D seismic data and numerical reservoir simulation models through the Momenta Tree. Computers and Geosciences, 2020, 145, 104617.	4.2	2
43	4D petroelastic modeling based on a presalt well. Interpretation, 2020, 8, T639-T649.	1.1	2
44	The Impact of Time-shift Estimation and Correction on Two 4D Attributes - Amplitude Difference and Velocity Change. , 2016, , .		2
45	Joining Two Probabilistic Approaches - 4D Seismic Data and Simulation Models. , 2015, , .		2
46	Substituting petro-elastic model with a new proxy to assimilate time-lapse seismic data considering model errors. Journal of Petroleum Science and Engineering, 2022, 210, 109970.	4.2	2
47	Impact of model and data resolutions in 4D seismic data assimilation applied to an offshore reservoir in Brazil. Journal of Petroleum Science and Engineering, 2022, 216, 110830.	4.2	2
48	Incorporating 4D Seismic Attributes Into History Matching Process Through An Inversion Scheme. , 2011, , .		1
49	Qualitative time-lapse seismic interpretation: Seismic amplitude or impedance? A case study in the Norne benchmark case. , 2017, , .		1
50	Estimation of Time and Spatial Shifts in 4D Seismic Surveys Using Mutual Information and Signal Envelope. , 2017, , .		1
51	Improvement of Pressure and Saturation Estimations from 4D Seismic Supported by Flow Simulation Data. , 2014, , .		1
52	Fast diagnosis of reservoir simulation models based on 4D seismic similarity indicators. Journal of Petroleum Science and Engineering, 2022, 210, 110083.	4.2	1
53	Separation of Pressure and Saturation effects using AVO 4D in Marlim Field. , 2009, , .		0
54	A three-way convolutional network to compare 4D seismic data and reservoir simulation models in different domains. Journal of Petroleum Science and Engineering, 2021, 208, 109260.	4.2	0

#	ARTICLE	IF	CITATIONS
55	Impedance-Type Inversion of the P-P Reflection Coefficient. , 2005, , .		0
56	Estimation of Static and Dynamic Properties in a Bayesian Framework. , 2012, , .		0