

# Martin LandrÃ,

## List of Publications by Year in descending order

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161  
papers

2,904  
citations

201385

27  
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214527

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166  
all docs

166  
docs citations

166  
times ranked

1264  
citing authors

#	ARTICLE	IF	CITATIONS
1	Far-offset detection of normal modes and diving waves: A case study from the Valhall Field, southern North Sea. <i>Geophysics</i> , 2022, 87, B105-B115.	1.4	1
2	Tube-wave monitoring as a method to detect shear modulus changes around boreholes: A case study. <i>Geophysics</i> , 2021, 86, B193-B207.	1.4	3
3	Feature Selection Based on Principal Component Regression for Underwater Source Localization by Deep Learning. <i>Remote Sensing</i> , 2021, 13, 1486.	1.8	11
4	Source level and vocalizing depth estimation of two blue whale subspecies in the western Indian Ocean from single sensor observations. <i>Journal of the Acoustical Society of America</i> , 2021, 149, 4422-4436.	0.5	11
5	Storage of Carbon Dioxide in Saline Aquifers: Physicochemical Processes, Key Constraints, and Scale-Up Potential. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2021, 12, 471-494.	3.3	34
6	Using diving waves for detecting shallow overburden gas layers. <i>Geophysics</i> , 2021, 86, B237-B247.	1.4	3
7	Distributed acoustic sensing for near-surface imaging using submarine telecommunication cable: A case study in the Trondheimsfjord, Norway. <i>Geophysics</i> , 2021, 86, B303-B320.	1.4	21
8	Self-supervised Underwater Source Localization based on Contrastive Predictive Coding. , 2021, , .		4
9	Time-lapse seismic analysis of overburden water injection at the Ekofisk field, southern North Sea. <i>Geophysics</i> , 2020, 85, B9-B21.	1.4	3
10	The impact of bubble curtains on seismic air-gun signatures and its high-frequency emission. <i>Geophysics</i> , 2020, 85, P1-P11.	1.4	3
11	Acoustic signals in air and water generated by very shallow marine seismic sources: An experimental study. <i>Journal of the Acoustical Society of America</i> , 2020, 147, 1092-1103.	0.5	7
12	Comparing the broadband acoustic frequency response of single, clustered, and arrays of marine air guns. <i>Geophysics</i> , 2020, 85, P27-P36.	1.4	4
13	On low frequencies emitted by air guns at very shallow depths " An experimental study. <i>Geophysics</i> , 2019, 84, P61-P71.	1.4	7
14	Gas flow through shallow sediments" A case study using passive and active seismic field data. <i>International Journal of Greenhouse Gas Control</i> , 2019, 87, 121-133.	2.3	14
15	The Role of Geophysics in Carbon Capture and Storage. , 2019, , 11-53.		4
16	Goals of CO2 Monitoring. , 2019, , 54-70.		1
17	Multicomponent Seismic Monitoring. , 2019, , 83-92.		3
18	Estimating Saturation and Density Changes Caused by CO2 Injection at Sleipner. , 2019, , 134-153.		0

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19	Twenty Years of Monitoring CO <sub>2</sub> Injection at Sleipner. , 2019, , 209-234.		11
20	Time-Lapse Seismic Analysis of the CO <sub>2</sub> Injection into the Tubåen Formation at Snåhvit. , 2019, , 319-338.		1
21	Deep electrical imaging of the ultraslow-spreading Mohs Ridge. Nature, 2019, 567, 379-383.	13.7	63
22	Repeatability of high-resolution 3D seismic data. Geophysics, 2019, 84, B75-B94.	1.4	14
23	Time lapse seismic analysis of the Tohoku-Oki 2011 earthquake. International Journal of Greenhouse Gas Control, 2019, 82, 98-116.	2.3	2
24	Characterizing the acoustic properties of the cavity cloud generated close to an air-gun array as a time-dependent effective medium. Geophysical Journal International, 2019, 216, 545-559.	1.0	3
25	Estimating source signatures from source-over-spread marine seismic data. Geophysics, 2018, 83, P39-P48.	1.4	1
26	Frequency-depth-dependent spherical reflection response from the sea surface – a transmission experiment. Geophysical Journal International, 2018, 214, 1206-1217.	1.0	8
27	Acoustically induced cavity cloud generated by air-gun arrays – Comparing video recordings and acoustic data to modeling. Journal of the Acoustical Society of America, 2018, 143, 3383-3393.	0.5	12
28	Detecting gas leakage using high-frequency signals generated by air-gun arrays. Geophysics, 2017, 82, A7-A12.	1.4	4
29	Acoustic generation of underwater cavities – Comparing modeled and measured acoustic signals generated by seismic air gun arrays. Journal of the Acoustical Society of America, 2017, 141, 2661-2672.	0.5	9
30	Processing and quality-control strategies for consistent time-lapse seismic attributes: A case history on an internal blowout using vintage data. Geophysics, 2017, 82, B135-B146.	1.4	5
31	Estimating saturation and density changes caused by CO <sub>2</sub> injection at Sleipner – Using time-lapse seismic amplitude-variation-with-offset and time-lapse gravity. Interpretation, 2017, 5, T243-T257.	0.5	17
32	Broadband seismic over/under sources and their designature-deghosting. Geophysics, 2017, 82, P61-P73.	1.4	5
33	On firing an air gun very shallow. Geophysics, 2017, 82, A25-A29.	1.4	12
34	Streamer depth versus vessel and seismic interference noise. Geophysics, 2017, 82, P41-P51.	1.4	2
35	Variable source depth acquisition for (an overall) improved signal-to-noise ratio in marine broadband seismic data: A modeling study. Geophysics, 2017, 82, P31-P39.	1.4	1
36	High frequency ghost cavitation - a comparison of two seismic air-gun arrays using numerical modelling. Energy Procedia, 2017, 125, 153-160.	1.8	5

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37	A new approach to separate seismic time-lapse time shifts in the reservoir and overburden. <i>Geophysics</i> , 2017, 82, Q67-Q78.	1.4	1
38	Low-frequency acoustic signal created by rising air-gun bubble. <i>Geophysics</i> , 2017, 82, P119-P128.	1.4	1
39	Estimation of shallow gas-migration rates after a subsurface blowout using time-lapse attributes. , 2017, , .		0
40	Reducing high-frequency ghost cavitation signals from marine air-gun arrays. <i>Geophysics</i> , 2016, 81, P33-P46.	1.4	9
41	Sensitivity analysis and application of time-lapse full-waveform inversion: synthetic testing and field data example from the North Sea, Norway. <i>Geophysical Prospecting</i> , 2016, 64, 1183-1200.	1.0	1
42	Estimation of source signatures from air guns fired at various depths: A field test of the source scaling law. <i>Geophysics</i> , 2016, 81, P13-P22.	1.4	5
43	Sensitivity analysis of effective fluid and rock bulk modulus due to changes in pore pressure, temperature and saturation. <i>Journal of Applied Geophysics</i> , 2016, 135, 77-89.	0.9	11
44	Calendar time interpolation of amplitude maps from 4D seismic data. <i>Geophysical Prospecting</i> , 2016, 64, 421-430.	1.0	11
45	Implementation of marine seismic source wavefields in finite-difference methods using wavefield injection. <i>Geophysics</i> , 2016, 81, T211-T219.	1.4	3
46	Estimation of rock physics properties from seismic attributes " Part 2: Applications. <i>Geophysics</i> , 2016, 81, M55-M69.	1.4	18
47	New method for discriminating 4D time shifts in the overburden and reservoir. , 2016, , .		0
48	Variable source depth acquisition for improved marine broadband seismic data. <i>Geophysics</i> , 2015, 80, A69-A73.	1.4	16
49	Discriminating between oil and gas exploiting the amplitude dimming at the rim. , 2015, , .		0
50	Implementation of marine source wavefields in FD-methods. , 2015, , .		1
51	Advances in time-lapse geophysics " Introduction. <i>Geophysics</i> , 2015, 80, WAI-WAii.	1.4	10
52	Aspect ratio histograms of 3D ellipsoids and 2D ellipses " Analytical relations and numerical examples. <i>Geophysics</i> , 2015, 80, D429-D12.	1.4	1
53	Permeability variation with porosity, pore space geometry, and cement type: A case history from the Sn�hvit field, the Barents Sea. <i>Geophysics</i> , 2015, 80, D43-D49.	1.4	20
54	Iceberg ploughmarks illuminated by shallow gas in the central North Sea. <i>Quaternary Science Reviews</i> , 2014, 103, 34-50.	1.4	18

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55	Estimation of pressure-saturation changes for unconsolidated reservoir rocks with high $V_P/V_S$ ratio. <i>Geophysics</i> , 2014, 79, M35-M54.	1.4	33
56	An alternative method for modeling close-range interactions between air guns. <i>Geophysics</i> , 2014, 79, P1-P7.	1.4	7
57	Using a pseudo-steady-state flow equation and 4D seismic traveltimes for estimation of pressure and saturation changes. <i>Geophysics</i> , 2014, 79, M11-M24.	1.4	5
58	Is it optimal to tow air guns shallow to enhance low frequencies?. <i>Geophysics</i> , 2014, 79, A13-A18.	1.4	90
59	Using geophone components to obtain ultralow frequency signals at long offsets. , 2014, , .		1
60	Ground-roll subtraction from common-shot gathers with significant trace-to-trace variations in the energy of random noise. <i>Journal of Geophysics and Engineering</i> , 2013, 10, 065001.	0.7	1
61	Sea-bed diffractions and their impact on 4D seismic data. <i>Geophysical Prospecting</i> , 2013, 61, 199-214.	1.0	3
62	Estimation of bubble time period for air-gun clusters using potential isosurfaces. <i>Geophysics</i> , 2013, 78, P1-P7.	1.4	4
63	Repeatability issues of high-frequency signals emitted by air-gun arrays. <i>Geophysics</i> , 2013, 78, P19-P27.	1.4	12
64	Modeling close range air gun interactions using isosurfaces of the velocity potential. , 2013, , .		0
65	Single-station SVD-based polarization filtering of ground roll: Perfection and investigation of limitations and pitfalls. <i>Geophysics</i> , 2012, 77, V41-V59.	1.4	13
66	Normal modes in seismic data " Revisited. <i>Geophysics</i> , 2012, 77, W27-W40.	1.4	14
67	4D gravity response of compacting reservoirs: Analytical approach. <i>Geophysics</i> , 2012, 77, G45-G54.	1.4	3
68	The effect of interface curvature on AVO inversion of near-critical and postcritical PP-reflections. <i>Geophysics</i> , 2012, 77, N1-N16.	1.4	21
69	Simple expression for the bubble-time period of two clustered air guns. <i>Geophysics</i> , 2012, 77, A1-A3.	1.4	10
70	3D CSEM modeling and time-lapse sensitivity analysis for subsurface CO <sub>2</sub> storage. <i>Geophysics</i> , 2012, 77, E343-E355.	1.4	31
71	Time-lapse 2D interpretation of gas migration in shallow sand layers " Compared to reservoir simulation. <i>International Journal of Greenhouse Gas Control</i> , 2012, 10, 389-396.	2.3	11
72	Controlled source strength variation by changing the firing pressure " a sensitivity study for 4D calibration. <i>Geophysical Prospecting</i> , 2012, 60, 480-487.	1.0	0

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73	Pressure-saturation discrimination for an underground blow-out seismic data of North-Sea. , 2012, , .		1
74	Time lapse pressure-saturation discrimination for CO <sub>2</sub> storage at the Sn�hvit field. , 2012, , .		3
75	High-frequency signals from air-gun arrays. Geophysics, 2011, 76, Q19-Q27.	1.4	31
76	Long-offset AVO inversion of PP reflections from plane interfaces using effective reflection coefficients. Geophysics, 2011, 76, C65-C79.	1.4	43
77	Monitoring a shallow subsurface gas flow by time-lapse refraction analysis. Geophysics, 2011, 76, O35-O43.	1.4	12
78	Long-offset time-lapse seismic: Tested on the Valhall LoFS data. Geophysics, 2011, 76, O1-O13.	1.4	8
79	Estimation of changes in water column velocities and thicknesses from time lapse seismic data. Geophysical Prospecting, 2011, 59, 295-309.	1.0	7
80	Stress and fluid sensitivity in two North Sea oil fields��comparing rock physics models with seismic observations. The Leading Edge, 2011, 30, 98-102.	0.4	8
81	Mindlin's friction term and implications for shear modulus and anisotropy in granular media. , 2011, , .		1
82	Velocity and thickness estimation of thin CO <sub>2</sub> layers with uniform and patchy saturations �� A 4D synthetic seismic study. , 2011, , .		3
83	Monitoring shallow gas migration by refraction timeshift. , 2011, , .		0
84	CSEM sensitivity study of CO <sub>2</sub> layers with uniform versus patchy saturation distributions. , 2011, , .		0
85	Time-lapse tomographic inversion using a Gaussian parameterization of the velocity changes. Geophysics, 2010, 75, U29-U38.	1.4	13
86	Multicomponent ocean bottom and vertical cable seismic acquisition for wavefield reconstruction. Geophysics, 2010, 75, WB87-WB94.	1.4	7
87	SEG 2010 Awards Citations. The Leading Edge, 2010, 29, 1394-1410.	0.4	0
88	Improved solution of displacements due to a compacting reservoir over a rigid basement. Applied Mathematical Modelling, 2010, 34, 3352-3362.	2.2	24
89	Relating 4D seismics to reservoir geomechanical changes using a discrete element approach. Geophysical Prospecting, 2010, 58, 657-668.	1.0	7
90	Controlled source electromagnetic three-dimensional grid��modelling based on a complex resistivity structure of the seafloor: effects of acquisition parameters and geometry of multi��layered resistors. Geophysical Prospecting, 2010, 58, 505-533.	1.0	8

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91	12. Reservoir Geophysics. , 2010, , 255-282.		0
92	Seismic monitoring of in situ combustion process in a heavy oil field. Journal of Geophysics and Engineering, 2010, 7, 16-29.	0.7	20
93	A derivative-free approach for the estimation of porosity and permeability using time-lapse seismic and production data. Journal of Geophysics and Engineering, 2010, 7, 351-368.	0.7	39
94	Using Mindlin theory to model friction-dependent shear modulus in granular media. Geophysics, 2010, 75, E143-E152.	1.4	41
95	A comparison of rock physics models for fluid substitution in carbonate rocks. Exploration Geophysics, 2010, 41, 146-154.	0.5	29
96	4D Seismic. , 2010, , 427-444.		5
97	Estimating velocity and thickness changes of compacting reservoirs combining 4D seismic and gravimetric measurements. , 2009, , .		2
98	Porosity and permeability estimation by integration of production and time-lapse near and far offset seismic data. Journal of Geophysics and Engineering, 2009, 6, 325-344.	0.7	32
99	Estimation of thickness and velocity changes of injected carbon dioxide layers from prestack time-lapse seismic data. Geophysics, 2009, 74, O17-O28.	1.4	72
100	Estimation of changes in gravity anomaly due to a compacting reservoir. , 2009, , .		0
101	Nonlinear inversion for estimating reservoir parameters from time-lapse seismic data. Journal of Geophysics and Engineering, 2008, 5, 54-66.	0.7	69
102	The effect of noise generated by previous shots on seismic reflection data. Geophysics, 2008, 73, Q9-Q17.	1.4	17
103	Gravimetric monitoring of gas-reservoir water influx – A combined flow- and gravity-modeling approach. Geophysics, 2008, 73, WA123-WA131.	1.4	19
104	Potential improvements in reservoir monitoring using permanent seismic receiver arrays. The Leading Edge, 2008, 27, 1638-1645.	0.4	5
105	Source strength variations and 4D seismic. , 2008, , .		1
106	Seismic critical-angle reflectometry: A method to characterize azimuthal anisotropy?. Geophysics, 2007, 72, D41-D50.	1.4	16
107	Attenuation of seismic water-column noise, tested on seismic data from the Grane field. Geophysics, 2007, 72, V87-V95.	1.4	6
108	Vp vs Vs ratio versus differential stress and rock consolidation – A comparison between rock models and time-lapse AVO data. Geophysics, 2007, 72, C81-C94.	1.4	55

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109	Overburden complexity and repeatability of seismic data: Impacts of positioning errors at the Oseberg field, North Sea. <i>Geophysical Prospecting</i> , 2007, 55, 365-379.	1.0	13
110	Monitoring overburden layer changes and fault movements from time-lapse seismic data on the Valhall Field. <i>Geophysical Journal International</i> , 2007, 170, 1100-1118.	1.0	19
111	Determining the dilation factor in 4D monitoring of compacting reservoirs by rock-physics models. <i>Geophysical Prospecting</i> , 2007, 55, 793-804.	1.0	11
112	Stochastic inversion of pressure and saturation changes from time-lapse multi component data. <i>Geophysical Prospecting</i> , 2007, 55, 805-818.	1.0	8
113	Seismic monitoring of in-situ combustion in the Balol heavy-oil field. , 2007, , .		5
114	Stochastic inversion of pressure and saturation changes from time-lapse AVO data. <i>Geophysics</i> , 2006, 71, C81-C92.	1.4	25
115	AVO attribute inversion for finely layered reservoirs. <i>Geophysics</i> , 2006, 71, C25-C36.	1.4	38
116	Estimation of layer thickness and velocity changes using 4D prestack seismic data. <i>Geophysics</i> , 2006, 71, S219-S234.	1.4	49
117	Simultaneous inversion of PP and PS seismic data. <i>Geophysics</i> , 2006, 71, R1-R10.	1.4	65
118	A sensitivity study based on 2D synthetic data from the Gullfaks Field, using PP and PS time-lapse stacks for fluid-pressure discrimination. <i>Journal of Geophysics and Engineering</i> , 2006, 3, 314-328.	0.7	6
119	Pore-pressure detection sensitivities tested with time-lapse seismic data. <i>Geophysics</i> , 2005, 70, O39-O50.	1.4	11
120	Fluid-pressure discrimination in anisotropic reservoir rocks – A sensitivity study. <i>Geophysics</i> , 2005, 70, O1-O11.	1.4	11
121	Simulation of 4D seismic signal with noise – illustrated by WAG injection on the Ula Field. , 2005, , .		2
122	Overburden distortions – implications for seismic AVO analysis and time-lapse seismic. <i>Journal of Geophysics and Engineering</i> , 2005, 2, 81-89.	0.7	5
123	Pre-stack estimation of time-lapse seismic velocity changes – An example from the Sleipner CO2-Sequestration Project. , 2005, , 633-641.		3
124	Time lapse seismic analysis using long offset PS data. , 2005, , .		1
125	Vp/Vs ratio versus effective pressure and rock consolidation – a comparison between rock models and time-lapse AVO studies. , 2004, , .		2
126	Optimal use of PP and PS time-lapse stacks for fluid-pressure discrimination. <i>Geophysical Prospecting</i> , 2004, 52, 301-312.	1.0	11



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127	Quantitative estimation of compaction and velocity changes using 4D impedance and traveltime changes. <i>Geophysics</i> , 2004, 69, 949-957.	1.4	136
128	Time lapse refraction seismic – a tool for monitoring carbonate fields?. , 2004, , .		22
129	4D study of fluid effects on seismic data in the Gullfaks Field, North Sea. <i>Geofluids</i> , 2003, 3, 233-244.	0.3	5
130	Discrimination between pressure and fluid saturation changes from marine multicomponent time-lapse seismic data. <i>Geophysics</i> , 2003, 68, 1592-1599.	1.4	71
131	Stochastic inversion of pressure and saturation changes from time-lapse seismic data. , 2003, , .		2
132	Uncertainties in quantitative time-lapse seismic analysis. <i>Geophysical Prospecting</i> , 2002, 50, 527-538.	1.0	45
133	Use and abuse of seismic data in reservoir characterisation. <i>Marine and Petroleum Geology</i> , 2001, 18, 635-655.	1.5	26
134	Pressure detection from rms velocities – A sensitivity study based on a 4D dataset. , 2001, , .		3
135	The impact of common-offset migration on porosity estimation by AVO inversion. <i>Geophysics</i> , 2001, 66, 755-762.	1.4	11
136	Time-lapse seismic as a complementary tool for in-fill drilling. <i>Journal of Petroleum Science and Engineering</i> , 2001, 31, 81-92.	2.1	8
137	Discrimination between pressure and fluid saturation changes from time-lapse seismic data. <i>Geophysics</i> , 2001, 66, 836-844.	1.4	377
138	Joint inversion of PP- and PS-seismic data. , 2001, , .		4
139	Source signature determination by inversion of ministreamer data. <i>The Leading Edge</i> , 2000, 19, 46-49.	0.4	5
140	Shear-wave elastic impedance. <i>The Leading Edge</i> , 2000, 19, 1222-1229.	0.4	59
141	Repeatability issues of 3-D VSP data. <i>Geophysics</i> , 1999, 64, 1673-1679.	1.4	77
142	The Gullfaks 4D seismic study. <i>Petroleum Geoscience</i> , 1999, 5, 213-226.	0.9	111
143	Discrimination between pressure and fluid saturation changes from time lapse seismic data. , 1999, , .		21
144	Well calibration of seabed seismic data. , 1999, , .		8

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145	An experimental comparison of three direct methods of marine source signature estimation. <i>Geophysical Prospecting</i> , 1998, 46, 353-389.	1.0	24
146	Elastic reverse time migration of marine walkaway vertical seismic profiling data. <i>Geophysics</i> , 1998, 63, 1685-1695.	1.4	27
147	Damping of secondary bubble oscillations for towed air guns with a screen. <i>Geophysics</i> , 1997, 62, 533-539.	1.4	0
148	AVO inversion of Troll Field data. <i>Geophysics</i> , 1996, 61, 1589-1602.	1.4	39
149	High-speed photography of the bubble generated by an airgun <sup>1</sup> . <i>Geophysical Prospecting</i> , 1996, 44, 153-172.	1.0	25
150	Estimation of effective source signatures from marine VSP data <sup>1</sup> . <i>Geophysical Prospecting</i> , 1996, 44, 179-196.	1.0	3
151	Airgun bubble damping by a screen. <i>Geophysics</i> , 1995, 60, 1765-1772.	1.4	6
152	Source signature determination from ministreamer data. <i>Geophysics</i> , 1994, 59, 1261-1269.	1.4	15
153	ESTIMATION OF ELASTIC PARAMETERS FROM AVO EFFECTS IN THE TAU-P DOMAIN <sup>1</sup> . <i>Geophysical Prospecting</i> , 1993, 41, 341-366.	1.0	17
154	TEMPERATURE EFFECTS ON AIRGUN SIGNATURES <sup>1</sup> . <i>Geophysical Prospecting</i> , 1993, 41, 737-750.	1.0	18
155	Implementing measured source signatures in a coarse grid, finite difference modeling scheme. <i>Geophysics</i> , 1993, 58, 1852-1860.	1.4	12
156	Modeling of watergun signatures. <i>Geophysics</i> , 1993, 58, 101-109.	1.4	10
157	Experimental study of viscosity effects on airgun signatures. <i>Geophysics</i> , 1993, 58, 1801-1808.	1.4	19
158	Source signature determination by inversion. <i>Geophysics</i> , 1992, 57, 1633-1640.	1.4	44
159	MODELLING OF GI GUN SIGNATURES <sup>1</sup> . <i>Geophysical Prospecting</i> , 1992, 40, 721-747.	1.0	45
160	Radiative correction to the equivalent-photon spectrum of a relativistic electron and the two-photon process. <i>Physical Review D</i> , 1987, 36, 44-54.	1.6	5
161	Eavesdropping at the Speed of Light: Distributed Acoustic Sensing of Baleen Whales in the Arctic. <i>Frontiers in Marine Science</i> , 0, 9, .	1.2	20