Martin Siderius

List of Publications by Year
in descending order

52 papers	1,296 citations	430874 18 h-index	361022 35 g-index
75 all docs	75 docs citations	75 times ranked	696 citing authors

#	Article	IF	Citations
1	Optimal environmental estimation with ocean ambient noise. Journal of the Acoustical Society of America, 2021, 149, 825-834.	1.1	4
2	Head-wave correlations in layered seabed: Theory and modeling. JASA Express Letters, 2021, 1, .	1.1	2
3	Inversion of head waves in ocean acoustic ambient noise. Journal of the Acoustical Society of America, 2020, 147, 1752-1761.	1.1	7
4	Virtual head waves in ocean ambient noise: Theory and modeling. Journal of the Acoustical Society of America, 2020, 148, 3836-3848.	1.1	2
5	Environmental information content of ocean ambient noise. Journal of the Acoustical Society of America, 2019, 146, 1824-1833.	1.1	12
6	Comparison of Propagation Models for the Characterization of Sound Pressure Fields. IEEE Journal of Oceanic Engineering, 2019, 44, 598-610.	3.8	7
7	Head waves in ocean acoustic ambient noise: Measurements and modeling. Journal of the Acoustical Society of America, 2018, 143, 1182-1193.	1.1	8
8	High-resolution observations in the western Mediterranean Sea: the REP14-MED experiment. Ocean Science, 2018, 14, 321-335.	3.4	14
9	An analysis of beamforming algorithms for passive bottom reflection-loss estimation. Journal of the Acoustical Society of America, 2018, 144, 3046-3054.	1.1	4
10	Passive bottom reflection-loss estimation using ship noise and a vertical line array. Journal of the Acoustical Society of America, 2017, 141, 4372-4379.	1.1	8
11	Seabed Characterization From Ambient Noise Using Short Arrays and Autonomous Vehicles. IEEE Journal of Oceanic Engineering, 2017, 42, 1094-1101.	3.8	11
12	Marine mammal tracks from two-hydrophone acoustic recordings made with a glider. Ocean Science, 2017, 13, 273-288.	3.4	30
13	Head wave correlations in ambient noise. Journal of the Acoustical Society of America, 2016, 140, EL62-EL66.	1.1	7
14	Frequency based noise coherence-function extension and application to passive bottom-loss estimation. Journal of the Acoustical Society of America, 2016, 140, 1513-1524.	1.1	7
15	Performance metrics for depth-based signal separation using deep vertical line arrays. Journal of the Acoustical Society of America, 2016, 139, 418-425.	1.1	44
16	Single-sensor, cue-counting population density estimation: Average probability of detection of broadband clicks. Journal of the Acoustical Society of America, 2016, 140, 1894-1903.	1.1	7
17	A two-hydrophone range and bearing localization algorithm with performance analysis. Journal of the Acoustical Society of America, 2015, 137, 1586-1597.	1.1	23
18	High-resolution bottom-loss estimation using the ambient-noise vertical coherence function. Journal of the Acoustical Society of America, 2015, 137, 481-491.	1.1	16

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19	A computational method to predict and study underwater noise due to pile driving. Journal of the Acoustical Society of America, 2015, 138, 258-266.	1.1	8
20	Passive localization of noise-producing targets using a compact volumetric array. Journal of the Acoustical Society of America, 2014, 136, 80-89.	1.1	18
21	Coherence extrapolation for underwater ambient noise. Journal of the Acoustical Society of America, 2014, 135, EL318-EL323.	1.1	4
22	Geoacoustic inversion of ship radiated noise in shallow water using data from a single hydrophone. Journal of the Acoustical Society of America, 2014, 136, EL362-EL368.	1.1	18
23	Synthetic array processing of ocean ambient noise for higher resolution seabed bottom loss estimation. Journal of the Acoustical Society of America, 2013, 133, EL149-EL155.	1.1	11
24	Localization of a noisy broadband surface target using time differences of multipath arrivals. Journal of the Acoustical Society of America, 2013, 134, EL77-EL83.	1.1	15
25	Trans-dimensional geoacoustic inversion of wind-driven ambient noise. Journal of the Acoustical Society of America, 2013, 133, EL47-EL53.	1.1	16
26	Seabed characterization using ambient noise and compact arrays on an autonomous underwater vehicle.. Proceedings of Meetings on Acoustics, 2013, , .	0.3	4
27	Small boat localization using adaptive three-dimensional beamforming on a tetrahedral and vertical line array. Proceedings of Meetings on Acoustics, 2013, , .	0.3	9
28	Aspect-dependent radiated noise analysis of an underway autonomous underwater vehicle. Journal of the Acoustical Society of America, 2012, 132, EL351-EL357.	1.1	11
29	Using practical supergain for passive imaging with noise. Journal of the Acoustical Society of America, 2012, 131, EL14-EL20.	1.1	15
30	Bayesian geoacoustic inversion using wind-driven ambient noise. Journal of the Acoustical Society of America, 2012, 131, 2658-2667.	1.1	38
31	Comparison of methods used for computing the impact of sound on the marine environment. Marine Environmental Research, 2011, 71, 342-350.	2.5	8
32	Extracting the rayleigh reflection coefficient from the passive fathometer. , 2010, , .		2
33	Computing the effect of sound on the marine environment by the adaptive mesh refinement method. , 2010, , .		1
34	Extraction of time-frequency target features. , 2010, , .		4
35	Adaptive passive fathometer processing. Journal of the Acoustical Society of America, 2010, 127, 2193-2200.	1.1	71
36	Passive acoustic sensing for detection of small vessels. , 2010, , .		11

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37	Modeling broadband ocean acoustic transmissions with time-varying sea surfaces. Journal of the Acoustical Society of America, 2008, 124, 137-150.	1.1	160
38	Passive fathometer processing. Journal of the Acoustical Society of America, 2008, 123, 1297-1305.	1.1	57
39	Bottom profiling by correlating beam-steered noise sequences. Journal of the Acoustical Society of America, 2008, 123, 1282-1296.	1.1	47
40	MODELING ALTERNATIVE SONAR WAVEFORMS TO DETERMINE RISK FACTORS FOR MARINE MAMMALS. Bioacoustics, 2008, 17, 268-270.	1.7	1
41	Effects of ocean thermocline variability on noncoherent underwater acoustic communications. Journal of the Acoustical Society of America, 2007, 121, 1895-1908.	1.1	111
42	A passive fathometer technique for imaging seabed layering using ambient noise. Journal of the Acoustical Society of America, 2006, 120, 1315-1323.	1.1	129
43	Point-to-point underwater acoustic communications using spread-spectrum passive phase conjugation. Journal of the Acoustical Society of America, 2006, 120, 247-257.	1.1	38
44	High-frequency (8–16 kHz) model-based source localization. Journal of the Acoustical Society of America, 2004, 115, 3021-3032.	1.1	26
45	Source localization in a time-varying ocean waveguide. Journal of the Acoustical Society of America, 2002, 112, 1879-1889.	1.1	11
46	Range-dependent seabed characterization by inversion of acoustic data from a towed receiver array. Journal of the Acoustical Society of America, 2002, 112, 1523-1535.	1.1	76
47	Experimental study of geo-acoustic inversion uncertainty due to ocean sound-speed fluctuations. Journal of the Acoustical Society of America, 2001, 110, 769-781.	1.1	50
48	An evaluation of the accuracy of shallow water matched field inversion results. Journal of the Acoustical Society of America, 2001, 109, 514-527.	1.1	39
49	Yellow Shark Spring 1995: Inversion results from sparse broadband acoustic measurements over a highly range-dependent soft clay layer. Journal of the Acoustical Society of America, 1999, 106, 637-651.	1.1	29
50	Multipath compensation in shallow water environments using a virtual receiver. Journal of the Acoustical Society of America, 1997, 102, 3439-3449.	1.1	28
51	Yellow Shark '95: Experimental and inversion results for broadband acoustic propagation over a soft clay bottom. Journal of the Acoustical Society of America, 1997, 102, 3142-3142.	1.1	1
52	Acoustic calibration in shallow water using sparse data. Journal of the Acoustical Society of America, 1995, 97, 1006-1013.	1.1	3