

Karim G Sabra

List of Publications by Year in descending order

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75
papers

3,183
citations

279701

23
h-index

155592

55
g-index

79
all docs

79
docs citations

79
times ranked

1790
citing authors

#	ARTICLE	IF	CITATIONS
1	Passive underwater acoustic identification tags using multi-layered shells. Journal of the Acoustical Society of America, 2021, 149, 3387-3405.	0.5	3
2	Data driven source localization using a library of nearby shipping sources of opportunity. JASA Express Letters, 2021, 1, .	0.5	4
3	Information Content of Ship Noise on a Drifting Volumetric Array for Passive Environmental Sensing. IEEE Journal of Oceanic Engineering, 2020, 45, 607-630.	2.1	1
4	Analysis of the ray-based blind deconvolution algorithm for shipping sources. Journal of the Acoustical Society of America, 2020, 147, 1927-1938.	0.5	4
5	Geoacoustic inversion using ray-based blind deconvolution of shipping sources. Journal of the Acoustical Society of America, 2020, 147, 285-299.	0.5	5
6	Omnidirectional passive acoustic identification tags for underwater navigation. Journal of the Acoustical Society of America, 2020, 147, EL517-EL522.	0.5	5
7	Enhancing ambient noise correlation processing using vector sensors. Journal of the Acoustical Society of America, 2019, 145, 3567-3577.	0.5	5
8	Passive underwater acoustic tags using layered media. Journal of the Acoustical Society of America, 2019, 145, EL84-EL89.	0.5	5
9	Assessing non-uniform stiffening of the achilles tendon noninvasively using surface wave. Journal of Biomechanics, 2019, 82, 357-360.	0.9	3
10	Ray-based blind deconvolution of shipping sources using multiple beams separated by alternating projection. Journal of the Acoustical Society of America, 2018, 144, 3525-3532.	0.5	9
11	Quantifying the influence of respiration and cardiac pulsations on cerebrospinal fluid dynamics using real-time phase-contrast MRI. Journal of Magnetic Resonance Imaging, 2017, 46, 431-439.	1.9	106
12	Blind deconvolution of shipping sources in an ocean waveguide. Journal of the Acoustical Society of America, 2017, 141, 797-807.	0.5	33
13	Passive underwater acoustic markers using Bragg backscattering. Journal of the Acoustical Society of America, 2017, 142, EL573-EL578.	0.5	8
14	Sensing deep-ocean temperatures. Physics Today, 2016, 69, 32-38.	0.3	7
15	Acoustic scattering from phononic crystals with complex geometry. Journal of the Acoustical Society of America, 2016, 139, 3009-3020.	0.5	5
16	Super-resolution ultrasonic imaging of stiffness variations on a microscale active metasurface. Applied Physics Letters, 2016, 108, .	1.5	6
17	10.1121/1.4948450.1. , 2016, , .		0
18	Optimized extraction of coherent arrivals from ambient noise correlations in a rapidly fluctuating medium. Journal of the Acoustical Society of America, 2015, 138, EL375-EL381.	0.5	5

#	ARTICLE	IF	CITATIONS
19	Variability of the coherent arrivals extracted from low-frequency deep-ocean ambient noise correlations. <i>Journal of the Acoustical Society of America</i> , 2015, 138, 521-532.	0.5	13
20	Cross-coherent vector sensor processing for spatially distributed glider networks. <i>Journal of the Acoustical Society of America</i> , 2015, 138, EL329-EL335.	0.5	7
21	Monitoring deep-ocean temperatures using acoustic ambient noise. <i>Geophysical Research Letters</i> , 2015, 42, 2878-2884.	1.5	44
22	Acoustic Remote Sensing. <i>Annual Review of Fluid Mechanics</i> , 2015, 47, 221-243.	10.8	36
23	Modal and transient analysis of membrane acoustic metasurfaces. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	14
24	A three-dimensional Bloch wave expansion to determine external scattering from finite phononic crystals. <i>Journal of the Acoustical Society of America</i> , 2015, 137, 3299-3313.	0.5	9
25	Passive ultrasonics using sub-Nyquist sampling of high-frequency thermal-mechanical noise. <i>Journal of the Acoustical Society of America</i> , 2014, 135, EL364-EL370.	0.5	1
26	Subspace array processing using spatial time-frequency distributions: Applications for denoising structural echoes of elastic targets. <i>Journal of the Acoustical Society of America</i> , 2014, 135, 2821-2835.	0.5	11
27	Round-robin multiple-source localization. <i>Journal of the Acoustical Society of America</i> , 2014, 135, 134-147.	0.5	9
28	Bloch-wave expansion technique for predicting wave reflection and transmission in two-dimensional phononic crystals. <i>Journal of the Acoustical Society of America</i> , 2014, 135, 1808-1819.	0.5	18
29	Capacitive micromachined ultrasonic transducer arrays as tunable acoustic metamaterials. <i>Applied Physics Letters</i> , 2014, 104, 051914.	1.5	12
30	Assessment of muscle stiffness using a continuously scanning laser-Doppler vibrometer. <i>Muscle and Nerve</i> , 2014, 50, 133-135.	1.0	6
31	On the coherent components of low-frequency ambient noise in the Indian Ocean. <i>Journal of the Acoustical Society of America</i> , 2013, 133, EL20-EL25.	0.5	14
32	Coherent processing of shipping noise for ocean monitoring. <i>Journal of the Acoustical Society of America</i> , 2013, 133, EL108-EL113.	0.5	33
33	Surface wave measurements using a single continuously scanning laser Doppler vibrometer: Application to elastography. <i>Journal of the Acoustical Society of America</i> , 2013, 133, 1245-1254.	0.5	16
34	Modeling the acoustic scattering from large fish schools using the Bloch-Floquet theorem. <i>Proceedings of Meetings on Acoustics</i> , 2013, , .	0.3	1
35	Time-frequency analysis of the bistatic acoustic scattering from a spherical elastic shell. <i>Journal of the Acoustical Society of America</i> , 2012, 131, 164-173.	0.5	22
36	Propagation direction of natural mechanical oscillations in the biceps brachii muscle during voluntary contraction. <i>Journal of Electromyography and Kinesiology</i> , 2012, 22, 51-59.	0.7	12

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37	Enhancing the emergence rate of coherent wavefronts from ocean ambient noise correlations using spatio-temporal filters. Journal of the Acoustical Society of America, 2012, 132, 883-893.	0.5	31
38	Broadband measurement of translational and angular vibrations using a single continuously scanning laser Doppler vibrometer. Journal of the Acoustical Society of America, 2012, 132, 1384-1391.	0.5	8
39	Passive structural health monitoring of a high-speed naval ship from ambient vibrations. Journal of the Acoustical Society of America, 2011, 129, 2991-2999.	0.5	21
40	Ocean acoustic noise and passive coherent array processing. Comptes Rendus - Geoscience, 2011, 343, 533-547.	0.4	8
41	Damage detection in concrete using coda wave interferometry. NDT and E International, 2011, 44, 728-735.	1.7	93
42	High frequency ultrasonic imaging using thermal mechanical noise recorded on capacitive micromachined transducer arrays. Applied Physics Letters, 2011, 99, 224103.	1.5	14
43	Ultrasonic sensing using thermal-mechanical noise recorded on monolithic CMUT-on-CMOS arrays. , 2011, , .		0
44	MONITORING DAMAGE IN CONCRETE USING DIFFUSE ULTRASONIC CODA WAVE INTERFEROMETRY. AIP Conference Proceedings, 2011, , .	0.3	12
45	Ray-based blind deconvolution in ocean sound channels. Journal of the Acoustical Society of America, 2010, 127, EL42-EL47.	0.5	49
46	Coherent backscattering effect from mid-frequency shallow water reverberation. Journal of the Acoustical Society of America, 2010, 127, EL192-EL196.	0.5	3
47	Extracting guided waves from cross-correlations of elastic diffuse fields: Applications to remote structural health monitoring. Journal of the Acoustical Society of America, 2010, 127, 204-215.	0.5	28
48	Experimental demonstration of a high-frequency forward scattering acoustic barrier in a dynamic coastal environment. Journal of the Acoustical Society of America, 2010, 127, 3430-3439.	0.5	24
49	Using cross-correlations of elastic diffuse fields for attenuation tomography of structural damage. Journal of the Acoustical Society of America, 2010, 127, 3311-3314.	0.5	12
50	Influence of the noise sources motion on the estimated Green's functions from ambient noise cross-correlations. Journal of the Acoustical Society of America, 2010, 127, 3577-3589.	0.5	6
51	Two dimensional spatial coherence of the natural vibrations of the biceps brachii muscle generated during voluntary contractions. , 2010, 2010, 170-3.		2
52	Tomographic elastography of contracting skeletal muscles from their natural vibrations. Applied Physics Letters, 2009, 95, 203701.	1.5	10
53	Using diffuse field interferometry for structural and material characterization in complex aircraft structures. Proceedings of SPIE, 2009, , .	0.8	1
54	Forecast from noise. Nature Geoscience, 2008, 1, 89-90.	5.4	7

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55	Structural health monitoring by extraction of coherent guided waves from diffuse fields. Journal of the Acoustical Society of America, 2008, 123, EL8-EL13.	0.5	51
56	4. Green's Function Reconstruction. , 2008, , 99-329.		0
57	Extracting the local Green's function on a horizontal array from ambient ocean noise. Journal of the Acoustical Society of America, 2008, 124, EL183-EL188.	0.5	37
58	Using cross correlations of turbulent flow-induced ambient vibrations to estimate the structural impulse response. Application to structural health monitoring. Journal of the Acoustical Society of America, 2007, 121, 1987-1995.	0.5	57
59	Passive in vivo elastography from skeletal muscle noise. Applied Physics Letters, 2007, 90, 194101.	1.5	85
60	Green's functions extraction and surface-wave tomography from microseisms in southern California. Geophysics, 2006, 71, SI23-SI31.	1.4	120
61	A Portable Matched-Field Processing System Using Passive Acoustic Time Synchronization. IEEE Journal of Oceanic Engineering, 2006, 31, 696-710.	2.1	26
62	Extracting coherent coda arrivals from cross-correlations of long period seismic waves during the Mount St. Helens 2004 eruption. Geophysical Research Letters, 2006, 33, .	1.5	22
63	Experimental demonstration of iterative time-reversed reverberation focusing in a rough waveguide. Application to target detection. Journal of the Acoustical Society of America, 2006, 120, 1305-1314.	0.5	39
64	Arrival-time structure of the time-averaged ambient noise cross-correlation function in an oceanic waveguide. Journal of the Acoustical Society of America, 2005, 117, 164-174.	0.5	131
65	Emergence rate of the time-domain Green's function from the ambient noise cross-correlation function. Journal of the Acoustical Society of America, 2005, 118, 3524-3531.	0.5	159
66	Ambient noise cross correlation in free space: Theoretical approach. Journal of the Acoustical Society of America, 2005, 117, 79-84.	0.5	358
67	P-waves from cross-correlation of seismic noise. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	262
68	Extracting time-domain Green's function estimates from ambient seismic noise. Geophysical Research Letters, 2005, 32, .	1.5	420
69	Surface wave tomography from microseisms in Southern California. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	497
70	Effects of time-reversing array deformation in an ocean wave guide. Journal of the Acoustical Society of America, 2004, 115, 2844-2847.	0.5	5
71	Broadband performance of a time reversing array with a moving source. Journal of the Acoustical Society of America, 2004, 115, 2807-2817.	0.5	12
72	Blind deconvolution in ocean waveguides using artificial time reversal. Journal of the Acoustical Society of America, 2004, 116, 262-271.	0.5	44

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73	Effect of ocean currents on the performance of a time-reversing array in shallow water. Journal of the Acoustical Society of America, 2003, 114, 3125-3135.	0.5	6
74	Broadband performance of a moving time reversing array. Journal of the Acoustical Society of America, 2003, 114, 1395-1405.	0.5	9
75	Broadband time-reversing array retrofocusing in noisy environments. Journal of the Acoustical Society of America, 2002, 111, 823-830.	0.5	14