

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	Surface wave tomography from microseisms in Southern California. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	497
2	Extracting time-domain Green's function estimates from ambient seismic noise. Geophysical Research Letters, 2005, 32, .	1.5	420
3	Ambient noise cross correlation in free space: Theoretical approach. Journal of the Acoustical Society of America, 2005, 117, 79-84.	0.5	358
4	P-waves from cross-correlation of seismic noise. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	262
5	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
6	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
7	Green's functions extraction and surface-wave tomography from microseisms in southern California. Geophysics, 2006, 71, SI23-SI31.	1.4	120
8	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
9	Damage detection in concrete using coda wave interferometry. NDT and E International, 2011, 44, 728-735.	1.7	93
10	Passive in vivo elastography from skeletal muscle noise. Applied Physics Letters, 2007, 90, 194101.	1.5	85
11	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
12	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
13	Ray-based blind deconvolution in ocean sound channels. Journal of the Acoustical Society of America, 2010, 127, EL42-EL47.	0.5	49
14	Blind deconvolution in ocean waveguides using artificial time reversal. Journal of the Acoustical Society of America, 2004, 116, 262-271.	0.5	44
15	Monitoring deep-ocean temperatures using acoustic ambient noise. Geophysical Research Letters, 2015, 42, 2878-2884.	1.5	44
16	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
17	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
18	Acoustic Remote Sensing. Annual Review of Fluid Mechanics, 2015, 47, 221-243.	10.8	36

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19	Coherent processing of shipping noise for ocean monitoring. Journal of the Acoustical Society of America, 2013, 133, EL108-EL113.	0.5	33
20	Blind deconvolution of shipping sources in an ocean waveguide. Journal of the Acoustical Society of America, 2017, 141, 797-807.	0.5	33
21	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
22	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
23	A Portable Matched-Field Processing System Using Passive Acoustic Time Synchronization. IEEE Journal of Oceanic Engineering, 2006, 31, 696-710.	2.1	26
24	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
25	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
26	Time-frequency analysis of the bistatic acoustic scattering from a spherical elastic shell. Journal of the Acoustical Society of America, 2012, 131, 164-173.	0.5	22
27	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
28	Bloch-wave expansion technique for predicting wave reflection and transmission in two-dimensional phononic crystals. Journal of the Acoustical Society of America, 2014, 135, 1808-1819.	0.5	18
29	Surface wave measurements using a single continuously scanning laser Doppler vibrometer: Application to elastography. Journal of the Acoustical Society of America, 2013, 133, 1245-1254.	0.5	16
30	Broadband time-reversing array retrofocusing in noisy environments. Journal of the Acoustical Society of America, 2002, 111, 823-830.	0.5	14
31	High frequency ultrasonic imaging using thermal mechanical noise recorded on capacitive micromachined transducer arrays. Applied Physics Letters, 2011, 99, 224103.	1.5	14
32	On the coherent components of low-frequency ambient noise in the Indian Ocean. Journal of the Acoustical Society of America, 2013, 133, EL20-EL25.	0.5	14
33	Modal and transient analysis of membrane acoustic metasurfaces. Journal of Applied Physics, 2015, 117, .	1.1	14
34	Variability of the coherent arrivals extracted from low-frequency deep-ocean ambient noise correlations. Journal of the Acoustical Society of America, 2015, 138, 521-532.	0.5	13
35	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
36	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

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37	MONITORING DAMAGE IN CONCRETE USING DIFFUSE ULTRASONIC CODA WAVE INTERFEROMETRY. AIP Conference Proceedings, 2011, , .	0.3	12
38	Propagation direction of natural mechanical oscillations in the biceps brachii muscle during voluntary contraction. Journal of Electromyography and Kinesiology, 2012, 22, 51-59.	0.7	12
39	Capacitive micromachined ultrasonic transducer arrays as tunable acoustic metamaterials. Applied Physics Letters, 2014, 104, 051914.	1.5	12
40	Subspace array processing using spatial time-frequency distributions: Applications for denoising structural echoes of elastic targets. Journal of the Acoustical Society of America, 2014, 135, 2821-2835.	0.5	11
41	Tomographic elastography of contracting skeletal muscles from their natural vibrations. Applied Physics Letters, 2009, 95, 203701.	1.5	10
42	Broadband performance of a moving time reversing array. Journal of the Acoustical Society of America, 2003, 114, 1395-1405.	0.5	9
43	Round-robin multiple-source localization. Journal of the Acoustical Society of America, 2014, 135, 134-147.	0.5	9
44	A three-dimensional Bloch wave expansion to determine external scattering from finite phononic crystals. Journal of the Acoustical Society of America, 2015, 137, 3299-3313.	0.5	9
45	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
46	Ocean acoustic noise and passive coherent array processing. Comptes Rendus - Geoscience, 2011, 343, 533-547.	0.4	8
47	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
48	Passive underwater acoustic markers using Bragg backscattering. Journal of the Acoustical Society of America, 2017, 142, EL573-EL578.	0.5	8
49	Forecast from noise. Nature Geoscience, 2008, 1, 89-90.	5.4	7
50	Cross-coherent vector sensor processing for spatially distributed glider networks. Journal of the Acoustical Society of America, 2015, 138, EL329-EL335.	0.5	7
51	Sensing deep-ocean temperatures. Physics Today, 2016, 69, 32-38.	0.3	7
52	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
53	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
54	Assessment of muscle stiffness using a continuously scanning laser Doppler vibrometer. Muscle and Nerve, 2014, 50, 133-135.	1.0	6

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55	Super-resolution ultrasonic imaging of stiffness variations on a microscale active metasurface. Applied Physics Letters, 2016, 108, .	1.5	6
56	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
57	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
58	Acoustic scattering from phononic crystals with complex geometry. Journal of the Acoustical Society of America, 2016, 139, 3009-3020.	0.5	5
59	Enhancing ambient noise correlation processing using vector sensors. Journal of the Acoustical Society of America, 2019, 145, 3567-3577.	0.5	5
60	Passive underwater acoustic tags using layered media. Journal of the Acoustical Society of America, 2019, 145, EL84-EL89.	0.5	5
61	Geoacoustic inversion using ray-based blind deconvolution of shipping sources. Journal of the Acoustical Society of America, 2020, 147, 285-299.	0.5	5
62	Omnidirectional passive acoustic identification tags for underwater navigation. Journal of the Acoustical Society of America, 2020, 147, EL517-EL522.	0.5	5
63	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
64	Data driven source localization using a library of nearby shipping sources of opportunity. JASA Express Letters, 2021, 1, .	0.5	4
65	Coherent backscattering effect from mid-frequency shallow water reverberation. Journal of the Acoustical Society of America, 2010, 127, EL192-EL196.	0.5	3
66	Assessing non-uniform stiffening of the achilles tendon noninvasively using surface wave. Journal of Biomechanics, 2019, 82, 357-360.	0.9	3
67	Passive underwater acoustic identification tags using multi-layered shells. Journal of the Acoustical Society of America, 2021, 149, 3387-3405.	0.5	3
68	Two dimensional spatial coherence of the natural vibrations of the biceps brachii muscle generated during voluntary contractions. , 2010, 2010, 170-3.		2
69	Using diffuse field interferometry for structural and material characterization in complex aircraft structures. Proceedings of SPIE, 2009, , .	0.8	1
70	Modeling the acoustic scattering from large fish schools using the Bloch-Floquet theorem. Proceedings of Meetings on Acoustics, 2013, , .	0.3	1
71	Passive ultrasonics using sub-Nyquist sampling of high-frequency thermal-mechanical noise. Journal of the Acoustical Society of America, 2014, 135, EL364-EL370.	0.5	1
72	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

#	ARTICLE	IF	CITATIONS
73	4. Green's Function Reconstruction. , 2008, , 99-329.		0
74	Ultrasonic sensing using thermal-mechanical noise recorded on monolithic CMUT-on-CMOS arrays. , 2011, , .		0
75	10.1121/1.4948450.1. , 2016, , .		0