

Efren Fernandez-Grande

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,087
citations

331259

21
h-index

433756

31
g-index

61
all docs

61
docs citations

61
times ranked

476
citing authors

#	ARTICLE	IF	CITATIONS
1	A sparse equivalent source method for near-field acoustic holography. Journal of the Acoustical Society of America, 2017, 141, 532-542.	0.5	96
2	Beamforming with a circular microphone array for localization of environmental noise sources. Journal of the Acoustical Society of America, 2010, 128, 3535-3542.	0.5	67
3	Reconstruction of the sound field in a room using compressive sensing. Journal of the Acoustical Society of America, 2018, 143, 3770-3779.	0.5	51
4	Sound field separation with sound pressure and particle velocity measurements. Journal of the Acoustical Society of America, 2012, 132, 3818-3825.	0.5	48
5	Compressive sensing with a spherical microphone array. Journal of the Acoustical Society of America, 2016, 139, EL45-EL49.	0.5	48
6	Improving the efficiency of deconvolution algorithms for sound source localization. Journal of the Acoustical Society of America, 2015, 138, 172-180.	0.5	47
7	Sound field reconstruction using a spherical microphone array. Journal of the Acoustical Society of America, 2016, 139, 1168-1178.	0.5	47
8	Near field acoustic holography with microphones on a rigid sphere (L). Journal of the Acoustical Society of America, 2011, 129, 3461-3464.	0.5	40
9	Three-dimensional source localization using sparse Bayesian learning on a spherical microphone array. Journal of the Acoustical Society of America, 2020, 147, 3895-3904.	0.5	39
10	Sound field separation with a double layer velocity transducer array (L). Journal of the Acoustical Society of America, 2011, 130, 5-8.	0.5	36
11	Gaussian processes for sound field reconstruction. Journal of the Acoustical Society of America, 2021, 149, 1107-1119.	0.5	35
12	Compressive acoustic holography with block-sparse regularization. Journal of the Acoustical Society of America, 2018, 143, 3737-3746.	0.5	34
13	Experimental characterization of the sound field in a reverberation room. Journal of the Acoustical Society of America, 2019, 145, 2237-2246.	0.5	33
14	Estimation of surface impedance at oblique incidence based on sparse array processing. Journal of the Acoustical Society of America, 2017, 141, 4115-4125.	0.5	32
15	Beamforming with a circular array of microphones mounted on a rigid sphere (L). Journal of the Acoustical Society of America, 2011, 130, 1095-1098.	0.5	28
16	Block-sparse beamforming for spatially extended sources in a Bayesian formulation. Journal of the Acoustical Society of America, 2016, 140, 1828-1838.	0.5	28
17	Improving the resolution of three-dimensional acoustic imaging with planar phased arrays. Journal of Sound and Vibration, 2012, 331, 1939-1950.	2.1	26
18	A wavenumber approach to quantifying the isotropy of the sound field in reverberant spaces. Journal of the Acoustical Society of America, 2018, 143, 2514-2526.	0.5	25

#	ARTICLE	IF	CITATIONS
19	Incorporating evanescent modes and flow losses into reference impedances in acoustic Th�venin calibration. Journal of the Acoustical Society of America, 2017, 142, 3013-3024.	0.5	24
20	Direct formulation of the supersonic acoustic intensity in space domain. Journal of the Acoustical Society of America, 2012, 131, 186-193.	0.5	23
21	Semi-Supervised Source Localization in Reverberant Environments With Deep Generative Modeling. IEEE Access, 2021, 9, 84956-84970.	2.6	22
22	<i>In situ</i> measurements of the oblique incidence sound absorption coefficient for finite sized absorbers. Journal of the Acoustical Society of America, 2016, 139, 41-52.	0.5	18
23	Compensating for evanescent modes and estimating characteristic impedance in waveguide acoustic impedance measurements. Journal of the Acoustical Society of America, 2017, 142, 3497-3509.	0.5	17
24	Isotropy in decaying reverberant sound fields. Journal of the Acoustical Society of America, 2020, 148, 1077-1088.	0.5	16
25	Experimental validation of a topology optimized acoustic cavity. Journal of the Acoustical Society of America, 2015, 138, 3470-3474.	0.5	14
26	On the Influence of Transfer Function Noise on Sound Zone Control in a Room. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 1405-1418.	4.0	12
27	Spatial reconstruction of sound fields using local and data-driven functions. Journal of the Acoustical Society of America, 2021, 150, 4417-4428.	0.5	12
28	Spatial resolution limits for the localization of noise sources using direct sound mapping. Journal of Sound and Vibration, 2016, 375, 53-62.	2.1	11
29	Large-scale outdoor sound field control. Journal of the Acoustical Society of America, 2020, 148, 2392-2402.	0.5	11
30	Active room compensation for sound reinforcement using sound field separation techniques. Journal of the Acoustical Society of America, 2018, 143, 1346-1354.	0.5	10
31	Compensating for oblique ear-probe insertions in ear-canal reflectance measurements. Journal of the Acoustical Society of America, 2019, 145, 3499-3509.	0.5	10
32	Spatial reconstruction of the sound field in a room in the modal frequency range using Bayesian inference. Journal of the Acoustical Society of America, 2021, 150, 4385-4394.	0.5	10
33	Conservation of power of the supersonic acoustic intensity. Journal of the Acoustical Society of America, 2014, 136, 461-465.	0.5	9
34	Comparison of two microphone array geometries for surface impedance estimation. Journal of the Acoustical Society of America, 2019, 146, 501-504.	0.5	9
35	A Bayesian spherical harmonics source radiation model for sound field control. Journal of the Acoustical Society of America, 2019, 146, 3425-3435.	0.5	9
36	Sparse planar arrays for azimuth and elevation using experimental data. Journal of the Acoustical Society of America, 2021, 149, 167-178.	0.5	9

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37	Design of passive directional acoustic devices using Topology Optimization - from method to experimental validation. Journal of the Acoustical Society of America, 2016, 140, 3862-3873.	0.5	8
38	Regularised reconstruction of sound fields with a spherical microphone array. Proceedings of Meetings on Acoustics, 2013, , .	0.3	7
39	Acousto-Optical Volumetric Sensing of Acoustic Fields. Physical Review Applied, 2021, 16, .	1.5	7
40	Reconstruction of room impulse responses over extended domains for navigable sound field reproduction. , 2021, , .		7
41	Volumetric reconstruction of acoustic energy flows in a reverberation room. Journal of the Acoustical Society of America, 2019, 145, EL203-EL208.	0.5	6
42	Sound source localization using multiple <i>ad hoc</i> distributed microphone arrays. JASA Express Letters, 2022, 2, .	0.5	6
43	Reproducing ear-canal reflectance using two measurement techniques in adult ears. Journal of the Acoustical Society of America, 2020, 147, 2334-2344.	0.5	5
44	A coupler-based calibration method for ear-probe microphones. Journal of the Acoustical Society of America, 2018, 144, 2294-2299.	0.5	4
45	Characterization of sound scattering using near-field pressure and particle velocity measurements. Journal of the Acoustical Society of America, 2019, 146, 2404-2414.	0.5	4
46	Separation of rail and wheel contributions to pass-by noise with sparse regularization methods. Journal of Sound and Vibration, 2020, 487, 115627.	2.1	4
47	Analysis of the sound field above finite absorbers in the wave-number domain. Journal of the Acoustical Society of America, 2022, 151, 3019-3030.	0.5	4
48	Sparse DOA estimation with polynomial rooting. , 2015, , .		2
49	Sound Field Reconstruction in Rooms with Deep Generative Models. INTER-NOISE and NOISE-CON Congress and Conference Proceedings, 2021, 263, 1527-1538.	0.1	2
50	Four decades of near-field acoustic holography. Journal of the Acoustical Society of America, 2022, 152, R1-R2.	0.5	1
51	On the Influence of Transfer Function Noise on Low Frequency Pressure Matching for Sound Zones. , 2018, , .		0
52	Sensor placement for sound field reconstruction in enclosures.. INTER-NOISE and NOISE-CON Congress and Conference Proceedings, 2021, 263, 5424-5432.	0.1	0