Zhigang Chu

List of Publications by Year
in descending order

46	526	759233	713466
papers	citations	12	21
		h-index	g-index

46	46	46	233
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comparison of deconvolution methods for the visualization of acoustic sources based on cross-spectral imaging function beamforming. Mechanical Systems and Signal Processing, 2014, 48, 404-422.	8.0	74
2	Two-dimensional grid-free compressive beamforming. Journal of the Acoustical Society of America, 2017, 142, 618-629.	1.1	48
3	Deconvolution for three-dimensional acoustic source identification based on spherical harmonics beamforming. Journal of Sound and Vibration, 2015, 344, 484-502.	3.9	39
4	Three-dimensional source localization using sparse Bayesian learning on a spherical microphone array. Journal of the Acoustical Society of America, 2020, 147, 3895-3904.	1.1	39
5	Functional delay and sum beamforming for three-dimensional acoustic source identification with solid spherical arrays. Journal of Sound and Vibration, 2016, 373, 340-359.	3.9	27
6	Two-dimensional multiple-snapshot grid-free compressive beamforming. Mechanical Systems and Signal Processing, 2019, 124, 524-540.	8.0	24
7	Deconvolution using CLEAN-SC for acoustic source identification with spherical microphone arrays. Journal of Sound and Vibration, 2019, 440, 161-173.	3.9	24
8	Resolution enhancement of two-dimensional grid-free compressive beamforming. Journal of the Acoustical Society of America, 2018, 143, 3860-3872.	1.1	19
9	Alternating direction method of multipliers for weighted atomic norm minimization in two-dimensional grid-free compressive beamforming. Journal of the Acoustical Society of America, 2018, 144, EL361-EL366.	1.1	15
10	Improvement of Fourier-based fast iterative shrinkage-thresholding deconvolution algorithm for acoustic source identification. Applied Acoustics, 2017, 123, 64-72.	3.3	14
11	Wideband holography based spherical equivalent source method with rigid spherical arrays. Mechanical Systems and Signal Processing, 2018, 111, 303-313.	8.0	14
12	Two-dimensional Newtonized orthogonal matching pursuit compressive beamforming. Journal of the Acoustical Society of America, 2020, 148, 1337-1348.	1.1	12
13	Resolution and quantification accuracy enhancement of functional delay and sum beamforming for three-dimensional acoustic source identification with solid spherical arrays. Mechanical Systems and Signal Processing, 2017, 88, 274-289.	8.0	11
14	Periodic boundary based FFT-FISTA for sound source identification. Applied Acoustics, 2018, 130, 87-91.	3.3	11
15	Fast Fourier-based deconvolution for three-dimensional acoustic source identification with solid spherical arrays. Mechanical Systems and Signal Processing, 2018, 107, 183-201.	8.0	10
16	Robust reconstruction of equivalent source method based near-field acoustic holography using an alternative regularization parameter determination approach. Journal of the Acoustical Society of America, 2019, 146, EL34-EL38.	1.1	10
17	A refined wideband acoustical holography based on equivalent source method. Scientific Reports, 2017, 7, 43458.	3.3	9
18	Two-Dimensional Total Variation Norm Constrained Deconvolution Beamforming Algorithm for Acoustic Source Identification. IEEE Access, 2018, 6, 43743-43748.	4.2	9

#	Article	IF	Citations
19	An Alternative Hybrid Time-Frequency Domain Approach Based on Fast Iterative Shrinkage-Thresholding Algorithm for Rotating Acoustic Source Identification. IEEE Access, 2019, 7, 59797-59805.	4.2	9
20	Extension Method of Spherical Harmonics Beamforming for Sound Source Identification. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2015, 51, 45.	0.5	9
21	Analysis and Control for the Intake Noise of a Vehicle. Acoustics Australia, 2018, 46, 259-267.	2.4	8
22	Compressive Spherical Beamforming for Acoustic Source Identification. Acta Acustica United With Acustica, 2019, 105, 1000-1014.	0.8	8
23	High-resolution CLEAN-SC for acoustic source identification with spherical microphone arrays. Journal of the Acoustical Society of America, 2019, 145, EL598-EL603.	1.1	7
24	A new insight and improvement on deconvolution beamforming in spherical harmonics domain. Applied Acoustics, 2021, 177, 107900.	3.3	7
25	A parameter design method for multifrequency perfect sound-absorbing metasurface with critical coupled Helmholtz resonator. Journal of Low Frequency Noise Vibration and Active Control, 2021, 40, 2054-2063.	2.9	6
26	Adaptive reweighting homotopy algorithm based compressive spherical beamforming with spherical microphone arrays. Journal of the Acoustical Society of America, 2020, 147, 480-489.	1.1	6
27	Iteratively Reweighted Spherical Equivalent Source Method for Acoustic Source Identification. IEEE Access, 2019, 7, 51513-51521.	4.2	5
28	Enhancement of direction-of-arrival estimation performance of spherical ESPRIT via atomic norm minimisation. Journal of Sound and Vibration, 2021, 491, 115758.	3.9	5
29	Improving the Sound Source Identification Performance of Sparsity Constrained Deconvolution Beamforming Utilizing SFISTA. Shock and Vibration, 2020, 2020, 1-9.	0.6	4
30	Annoyance evaluation of noise emitted by urban substation. Journal of Low Frequency Noise Vibration and Active Control, 0, , 146134842110143.	2.9	4
31	A preliminary study on two-dimensional grid-free compressive beamforming for arbitrary planar array geometries. Journal of the Acoustical Society of America, 2021, 149, 3751-3757.	1.1	4
32	Resolution enhanced Newtonized orthogonal matching pursuit solver for compressive beamforming. Applied Acoustics, 2022, 196, 108884.	3.3	4
33	A panoramic continuous compressive beamformer with cuboid microphone arrays. Scientific Reports, 2019, 9, 12073.	3.3	3
34	Two-Dimensional Multiple-Snapshot Grid-Free Compressive Beamforming Using Alternating Direction Method of Multipliers. Shock and Vibration, 2020, 2020, 1-11.	0.6	3
35	Enhancement of two-dimensional acoustic source identification with Fourier-based deconvolution beamforming. Journal of Vibroengineering, 2016, 18, 3337-3361.	1.0	3
36	Multi-frequency synchronous two-dimensional off-grid compressive beamforming. Journal of Sound and Vibration, 2022, 517, 116549.	3.9	3

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37	Two-dimensional grid-free compressive beamforming with spherical microphone arrays. Mechanical Systems and Signal Processing, 2022, 169, 108642.	8.0	3
38	Performance Enhancement of Functional Delay and Sum Beamforming for Spherical Microphone Arrays. Electronics (Switzerland), 2022, 11, 1132.	3.1	3
39	Newtonized orthogonal matching pursuit-based compressive spherical beamforming in spherical harmonic domain. Mechanical Systems and Signal Processing, 2022, 177, 109263.	8.0	3
40	Iterative Vandermonde decomposition and shrinkage-thresholding based two-dimensional grid-free compressive beamforming. Journal of the Acoustical Society of America, 2020, 148, EL301-EL306.	1.1	2
41	Filter-and-sum based high-resolution CLEAN-SC with spherical microphone arrays. Applied Acoustics, 2021, 182, 108278.	3.3	2
42	Noise Annoyance Prediction of Urban Substation Based on Transfer Learning and Convolutional Neural Network. Energies, 2022, 15, 749.	3.1	2
43	Field balancing of vehicle transmission shaft based on the influence coefficient method. Noise and Vibration Worldwide, 2018, 49, 266-271.	1.0	1
44	A novel Fourier-based deconvolution algorithm with improved efficiency and convergence. Journal of Low Frequency Noise Vibration and Active Control, 2020, 39, 866-878.	2.9	1
45	Determination of propagation model matrix in generalized cross-correlation based inverse model for broadband acoustic source localization. Journal of the Acoustical Society of America, 2020, 147, 2098-2109.	1.1	1
46	Iterative reweighted atomic norm minimization based two-dimensional multiple-snapshot grid-free compressive beamforming with planar microphone array. Journal of Low Frequency Noise Vibration and Active Control, 0, , 146134842211046.	2.9	1