

Zhigang Chu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/288627/publications.pdf>

Version: 2024-02-01

46
papers

526
citations

759233

12
h-index

713466

21
g-index

46
all docs

46
docs citations

46
times ranked

233
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-frequency synchronous two-dimensional off-grid compressive beamforming. <i>Journal of Sound and Vibration</i> , 2022, 517, 116549.	3.9	3
2	Two-dimensional grid-free compressive beamforming with spherical microphone arrays. <i>Mechanical Systems and Signal Processing</i> , 2022, 169, 108642.	8.0	3
3	Noise Annoyance Prediction of Urban Substation Based on Transfer Learning and Convolutional Neural Network. <i>Energies</i> , 2022, 15, 749.	3.1	2
4	Performance Enhancement of Functional Delay and Sum Beamforming for Spherical Microphone Arrays. <i>Electronics (Switzerland)</i> , 2022, 11, 1132.	3.1	3
5	Newtonized orthogonal matching pursuit-based compressive spherical beamforming in spherical harmonic domain. <i>Mechanical Systems and Signal Processing</i> , 2022, 177, 109263.	8.0	3
6	Resolution enhanced Newtonized orthogonal matching pursuit solver for compressive beamforming. <i>Applied Acoustics</i> , 2022, 196, 108884.	3.3	4
7	Enhancement of direction-of-arrival estimation performance of spherical ESPRIT via atomic norm minimisation. <i>Journal of Sound and Vibration</i> , 2021, 491, 115758.	3.9	5
8	A parameter design method for multifrequency perfect sound-absorbing metasurface with critical coupled Helmholtz resonator. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2021, 40, 2054-2063.	2.9	6
9	A new insight and improvement on deconvolution beamforming in spherical harmonics domain. <i>Applied Acoustics</i> , 2021, 177, 107900.	3.3	7
10	A preliminary study on two-dimensional grid-free compressive beamforming for arbitrary planar array geometries. <i>Journal of the Acoustical Society of America</i> , 2021, 149, 3751-3757.	1.1	4
11	Filter-and-sum based high-resolution CLEAN-SC with spherical microphone arrays. <i>Applied Acoustics</i> , 2021, 182, 108278.	3.3	2
12	A novel Fourier-based deconvolution algorithm with improved efficiency and convergence. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2020, 39, 866-878.	2.9	1
13	Iterative Vandermonde decomposition and shrinkage-thresholding based two-dimensional grid-free compressive beamforming. <i>Journal of the Acoustical Society of America</i> , 2020, 148, EL301-EL306.	1.1	2
14	Two-dimensional Newtonized orthogonal matching pursuit compressive beamforming. <i>Journal of the Acoustical Society of America</i> , 2020, 148, 1337-1348.	1.1	12
15	Three-dimensional source localization using sparse Bayesian learning on a spherical microphone array. <i>Journal of the Acoustical Society of America</i> , 2020, 147, 3895-3904.	1.1	39
16	Two-Dimensional Multiple-Snapshot Grid-Free Compressive Beamforming Using Alternating Direction Method of Multipliers. <i>Shock and Vibration</i> , 2020, 2020, 1-11.	0.6	3
17	Determination of propagation model matrix in generalized cross-correlation based inverse model for broadband acoustic source localization. <i>Journal of the Acoustical Society of America</i> , 2020, 147, 2098-2109.	1.1	1
18	Improving the Sound Source Identification Performance of Sparsity Constrained Deconvolution Beamforming Utilizing SFISTA. <i>Shock and Vibration</i> , 2020, 2020, 1-9.	0.6	4

#	ARTICLE	IF	CITATIONS
19	Adaptive reweighting homotopy algorithm based compressive spherical beamforming with spherical microphone arrays. <i>Journal of the Acoustical Society of America</i> , 2020, 147, 480-489.	1.1	6
20	High-resolution CLEAN-SC for acoustic source identification with spherical microphone arrays. <i>Journal of the Acoustical Society of America</i> , 2019, 145, EL598-EL603.	1.1	7
21	Robust reconstruction of equivalent source method based near-field acoustic holography using an alternative regularization parameter determination approach. <i>Journal of the Acoustical Society of America</i> , 2019, 146, EL34-EL38.	1.1	10
22	A panoramic continuous compressive beamformer with cuboid microphone arrays. <i>Scientific Reports</i> , 2019, 9, 12073.	3.3	3
23	An Alternative Hybrid Time-Frequency Domain Approach Based on Fast Iterative Shrinkage-Thresholding Algorithm for Rotating Acoustic Source Identification. <i>IEEE Access</i> , 2019, 7, 59797-59805.	4.2	9
24	Iteratively Reweighted Spherical Equivalent Source Method for Acoustic Source Identification. <i>IEEE Access</i> , 2019, 7, 51513-51521.	4.2	5
25	Two-dimensional multiple-snapshot grid-free compressive beamforming. <i>Mechanical Systems and Signal Processing</i> , 2019, 124, 524-540.	8.0	24
26	Deconvolution using CLEAN-SC for acoustic source identification with spherical microphone arrays. <i>Journal of Sound and Vibration</i> , 2019, 440, 161-173.	3.9	24
27	Compressive Spherical Beamforming for Acoustic Source Identification. <i>Acta Acustica United With Acustica</i> , 2019, 105, 1000-1014.	0.8	8
28	Wideband holography based spherical equivalent source method with rigid spherical arrays. <i>Mechanical Systems and Signal Processing</i> , 2018, 111, 303-313.	8.0	14
29	Fast Fourier-based deconvolution for three-dimensional acoustic source identification with solid spherical arrays. <i>Mechanical Systems and Signal Processing</i> , 2018, 107, 183-201.	8.0	10
30	Periodic boundary based FFT-FISTA for sound source identification. <i>Applied Acoustics</i> , 2018, 130, 87-91.	3.3	11
31	Alternating direction method of multipliers for weighted atomic norm minimization in two-dimensional grid-free compressive beamforming. <i>Journal of the Acoustical Society of America</i> , 2018, 144, EL361-EL366.	1.1	15
32	Field balancing of vehicle transmission shaft based on the influence coefficient method. <i>Noise and Vibration Worldwide</i> , 2018, 49, 266-271.	1.0	1
33	Resolution enhancement of two-dimensional grid-free compressive beamforming. <i>Journal of the Acoustical Society of America</i> , 2018, 143, 3860-3872.	1.1	19
34	Two-Dimensional Total Variation Norm Constrained Deconvolution Beamforming Algorithm for Acoustic Source Identification. <i>IEEE Access</i> , 2018, 6, 43743-43748.	4.2	9
35	Analysis and Control for the Intake Noise of a Vehicle. <i>Acoustics Australia</i> , 2018, 46, 259-267.	2.4	8
36	Resolution and quantification accuracy enhancement of functional delay and sum beamforming for three-dimensional acoustic source identification with solid spherical arrays. <i>Mechanical Systems and Signal Processing</i> , 2017, 88, 274-289.	8.0	11

#	ARTICLE	IF	CITATIONS
37	A refined wideband acoustical holography based on equivalent source method. Scientific Reports, 2017, 7, 43458.	3.3	9
38	Improvement of Fourier-based fast iterative shrinkage-thresholding deconvolution algorithm for acoustic source identification. Applied Acoustics, 2017, 123, 64-72.	3.3	14
39	Two-dimensional grid-free compressive beamforming. Journal of the Acoustical Society of America, 2017, 142, 618-629.	1.1	48
40	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
41	Enhancement of two-dimensional acoustic source identification with Fourier-based deconvolution beamforming. Journal of Vibroengineering, 2016, 18, 3337-3361.	1.0	3
42	Deconvolution for three-dimensional acoustic source identification based on spherical harmonics beamforming. Journal of Sound and Vibration, 2015, 344, 484-502.	3.9	39
43	Extension Method of Spherical Harmonics Beamforming for Sound Source Identification. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2015, 51, 45.	0.5	9
44	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
45	Annoyance evaluation of noise emitted by urban substation. Journal of Low Frequency Noise Vibration and Active Control, 0, , 146134842110143.	2.9	4
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