

# Chengshi Zheng

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

688  
citations

759233

12  
h-index

713466

21  
g-index

62  
all docs

62  
docs citations

62  
times ranked

255  
citing authors

#	ARTICLE	IF	CITATIONS
1	Two Heads are Better Than One: A Two-Stage Complex Spectral Mapping Approach for Monaural Speech Enhancement. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2021, 29, 1829-1843.	5.8	73
2	Glance and gaze: A collaborative learning framework for single-channel speech enhancement. <i>Applied Acoustics</i> , 2022, 187, 108499.	3.3	57
3	On the importance of power compression and phase estimation in monaural speech dereverberation. <i>JASA Express Letters</i> , 2021, 1, .	1.1	49
4	Speech enhancement using progressive learning-based convolutional recurrent neural network. <i>Applied Acoustics</i> , 2020, 166, 107347.	3.3	48
5	ICASSP 2021 Deep Noise Suppression Challenge: Decoupling Magnitude and Phase Optimization with a Two-Stage Deep Network. , 2021, , .		29
6	Dual-Branch Attention-In-Attention Transformer for Single-Channel Speech Enhancement. , 2022, , .		28
7	Robust Adaptive Beamforming Using Noise Reduction Preprocessing-Based Fully Automatic Diagonal Loading and Steering Vector Estimation. <i>IEEE Access</i> , 2017, 5, 12974-12987.	4.2	27
8	On the relationship of non-parametric methods for coherence function estimation. <i>Signal Processing</i> , 2008, 88, 2863-2867.	3.7	26
9	Active Headrest with Robust Performance against Head Movement. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2015, 34, 233-250.	2.9	19
10	A Recursive Network with Dynamic Attention for Monaural Speech Enhancement. , 0, , .		19
11	Embedding and Beamforming: All-Neural Causal Beamformer for Multichannel Speech Enhancement. , 2022, , .		17
12	A cepstrum-based preprocessing and postprocessing for speech enhancement in adverse environments. <i>Applied Acoustics</i> , 2013, 74, 1458-1462.	3.3	16
13	Spectral subtraction based on two-stage spectral estimation and modified cepstrum thresholding. <i>Applied Acoustics</i> , 2013, 74, 450-458.	3.3	13
14	Speech quality evaluation of a sparse coding shrinkage noise reduction algorithm with normal hearing and hearing impaired listeners. <i>Hearing Research</i> , 2015, 327, 175-185.	2.0	13
15	An optimization framework for designing robust cascade biquad feedback controllers on active noise cancellation headphones. <i>Applied Acoustics</i> , 2021, 179, 108081.	3.3	13
16	Statistical Analysis of the Multichannel Wiener Filter Using a Bivariate Normal Distribution for Sample Covariance Matrices. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2018, 26, 951-966.	5.8	12
17	A temporal-spectral generative adversarial network based end-to-end packet loss concealment for wideband speech transmission. <i>Journal of the Acoustical Society of America</i> , 2021, 150, 2577-2588.	1.1	12
18	On Generalized Auto-Spectral Coherence Function and Its Applications to Signal Detection. <i>IEEE Signal Processing Letters</i> , 2014, 21, 559-563.	3.6	11

#	ARTICLE	IF	CITATIONS
19	ICASSP 2021 Acoustic Echo Cancellation Challenge: Integrated Adaptive Echo Cancellation with Time Alignment and Deep Learning-Based Residual Echo Plus Noise Suppression. , 2021, , .		11
20	Two-channel post-filtering based on adaptive smoothing and noise properties. , 2011, , .		10
21	A Statistical Analysis of Two-Channel Post-Filter Estimators in Isotropic Noise Fields. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 336-342.	3.2	10
22	A Constrained MMSE LP Residual Estimator for Speech Dereverberation in Noisy Environments. IEEE Signal Processing Letters, 2014, 21, 1462-1466.	3.6	10
23	Detection of multiple sinusoids in unknown colored noise using truncated cepstrum thresholding and local signal-to-noise-ratio. Applied Acoustics, 2012, 73, 809-816.	3.3	9
24	Wideband sparse Bayesian learning for off-grid binaural sound source localization. Signal Processing, 2020, 166, 107250.	3.7	9
25	Deep learning-based stereophonic acoustic echo suppression without decorrelation. Journal of the Acoustical Society of America, 2021, 150, 816-829.	1.1	9
26	A two-stage complex network using cycle-consistent generative adversarial networks for speech enhancement. Speech Communication, 2021, 134, 42-54.	2.8	9
27	Binaural coherent-to-diffuse-ratio estimation for dereverberation using an ITD model. , 2015, , .		8
28	Guided spectrogram filtering for speech dereverberation. Applied Acoustics, 2018, 134, 154-159.	3.3	7
29	A Supervised Speech Enhancement Approach with Residual Noise Control for Voice Communication. Applied Sciences (Switzerland), 2020, 10, 2894.	2.5	7
30	Taylor, Can You Hear Me Now? A Taylor-Unfolding Framework for Monaural Speech Enhancement. , 2022, , .		7
31	Equalization of loudspeaker response using balanced model truncation. Journal of the Acoustical Society of America, 2015, 137, EL241-EL247.	1.1	6
32	A perceptually motivated LP residual estimator in noisy and reverberant environments. Speech Communication, 2018, 96, 129-141.	2.8	6
33	Low-complexity artificial noise suppression methods for deep learning-based speech enhancement algorithms. Eurasip Journal on Audio, Speech, and Music Processing, 2021, 2021, .	2.1	6
34	Joint estimation of binaural distance and azimuth by exploiting deep neural networks. Journal of the Acoustical Society of America, 2020, 147, 2625-2635.	1.1	6
35	Measurement and modeling of the mechanical impedance of human mastoid and condyle. Journal of the Acoustical Society of America, 2022, 151, 1434-1448.	1.1	6
36	Joint Magnitude Estimation and Phase Recovery Using Cycle-In-Cycle GAN for Non-Parallel Speech Enhancement. , 2022, , .		6

#	ARTICLE	IF	CITATIONS
37	Filtering and Refining: A Collaborative-Style Framework for Single-Channel Speech Enhancement. IEEE/ACM Transactions on Audio Speech and Language Processing, 2022, 30, 2156-2172.	5.8	6
38	Acoustical Vehicle Detection Based on Bispectral Entropy. IEEE Signal Processing Letters, 2009, 16, 378-381.	3.6	5
39	On second-order statistics of log-periodogram and cepstral coefficients for processes with mixed spectra. Signal Processing, 2012, 92, 2560-2565.	3.7	4
40	Bandwidth extension for speech acquired by laser Doppler vibrometer with an auxiliary microphone. , 2015, , .		4
41	Finite data performance analysis of one-bit MVDR and phase-only MVDR. Signal Processing, 2021, 183, 108018.	3.7	4
42	Distributed node-specific block-diagonal LCMV beamforming in wireless acoustic sensor networks. Signal Processing, 2021, 185, 108085.	3.7	4
43	Noise-robust blind reverberation time estimation using noise-aware time-frequency masking. Measurement: Journal of the International Measurement Confederation, 2022, 192, 110901.	5.0	4
44	A separation and interaction framework for causal multi-channel speech enhancement. , 2022, 126, 103519.		4
45	Low-latency monaural speech enhancement with deep filter-bank equalizer. Journal of the Acoustical Society of America, 2022, 151, 3291-3304.	1.1	4
46	Evaluation of the sparse coding shrinkage noise reduction algorithm in normal hearing and hearing impaired listeners. Hearing Research, 2014, 310, 36-47.	2.0	3
47	Analysis of Additional Stable Gain by Frequency Shifting for Acoustic Feedback Suppression using Statistical Room Acoustics. IEEE Signal Processing Letters, 2016, 23, 159-163.	3.6	3
48	The effect of pinna filtering in binaural transfer functions on externalization in a reverberant environment. Applied Acoustics, 2020, 164, 107257.	3.3	3
49	Learning to Inference with Early Exit in the Progressive Speech Enhancement. , 2021, , .		3
50	A Neural BeamSpace-Domain Filter for Real-Time Multi-Channel Speech Enhancement. Symmetry, 2022, 14, 1081.	2.2	3
51	Two-stage optimisation algorithm for adaptive IIR notch filter. Electronics Letters, 2014, 50, 985-987.	1.0	2
52	Evaluation of headphone phase equalization on sound reproduction. Applied Acoustics, 2019, 156, 208-216.	3.3	2
53	Investigation of an MAA Test With Virtual Sound Synthesis. Frontiers in Psychology, 2021, 12, 656052.	2.1	2
54	Robustness analysis of time-domain and frequency-domain adaptive null-forming schemes. , 2011, , .		1

#	ARTICLE	IF	CITATIONS
55	A modified power-level-difference-based noise reduction for dual-microphone headsets. , 2013, , .		1
56	Stereophonic channel decorrelation using a binaural masking model. Applied Acoustics, 2016, 110, 128-136.	3.3	1
57	A Low-Complexity Volterra Filtered-Error LMS Algorithm with a Kronecker Product Decomposition. Applied Sciences (Switzerland), 2021, 11, 9637.	2.5	1
58	Optimal smoothing for microphone array post-filtering under a combined deterministic-stochastic hybrid model. Journal of Electronics, 2011, 28, 524-530.	0.2	0
59	A statistical analysis of power-level-difference-based dual-channel post-filter estimator. Applied Acoustics, 2014, 83, 40-46.	3.3	0
60	An efficient and robust speech dereverberation method using spherical microphone array. , 2018, , .		0