Kathleen E Wage

List of Publications by Year
in descending order

43 papers	631 citations	933264 10 h-index	677027 22 g-index
56 all docs	56 docs citations	56 times ranked	274 citing authors

#	Article	IF	Citations
1	The Signals and Systems Concept Inventory. IEEE Transactions on Education, 2005, 48, 448-461.	2.0	109
2	Extending coprime sensor arrays to achieve the peak side lobe height of a full uniform linear array. Eurasip Journal on Advances in Signal Processing, 2014, 2014, .	1.0	85
3	The North Pacific Acoustic Laboratory deep-water acoustic propagation experiments in the Philippine Sea. Journal of the Acoustical Society of America, 2013, 134, 3359-3375.	0.5	72
4	A unified framework for mode filtering and the maximuma posteriorimode filter. Journal of the Acoustical Society of America, 1998, 103, 1813-1824.	0.5	50
5	Modal analysis of broadband acoustic receptions at 3515-km range in the North Pacific using short-time Fourier techniques. Journal of the Acoustical Society of America, 2003, 113, 801-817.	0.5	41
6	Beamforming with extended co-prime sensor arrays. , 2013, , .		41
7	Mode coherence at megameter ranges in the North Pacific Ocean. Journal of the Acoustical Society of America, 2005, 117, 1565-1581.	0.5	39
8	Vertical line array measurements of ambient noise in the North Pacific. Journal of the Acoustical Society of America, 2017, 141, 1571-1581.	0.5	26
9	Snapshot Performance of the Dominant Mode Rejection Beamformer. IEEE Journal of Oceanic Engineering, 2014, 39, 212-225.	2.1	17
10	Efficient Doppler-Compensated Reiterative Minimum Mean-Squared-Error Processing. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 562-574.	2.6	15
11	Multiplicative and min processing of experimental passive sonar data from thinned arrays. Journal of the Acoustical Society of America, 2018, 144, 3262-3274.	0.5	15
12	Coprime processing for the Elba Island sonar data set. , 2014, , .		14
13	Students' interpretation of the importance and difficulty of concepts in signals and systems. , 2010, , .		13
14	Analyzing Misconceptions using the Signals and Systems Concept Inventory and Student Interviews. , 2006, , .		12
15	A random matrix theory model for the dominant mode rejection beamformer notch depth. , 2012, , .		10
16	The continuous-time signals and systems concept inventory. , 2002, , .		7
17	Comparing student understanding of signals and systems using a concept inventory, a traditional exam and interviews. Proceedings - Frontiers in Education Conference, FIE, 2007, , .	0.0	7
18	Experimental validation of a random matrix theory model for dominant mode rejection beamformer notch depth. , 2012, , .		5

#	Article	IF	Citations
19	What Were They Thinking?: Refining Conceptual Assessments Using Think-Aloud Problem Solving. IEEE Signal Processing Magazine, 2021, 38, 85-93.	4.6	5
20	Multitaper Array Processing. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	4
21	Interpolation methods for vertical linear array element localization. , 2008, , .		4
22	Item Response Analysis of the Continuous-Time Signals and Systems Concept Inventory. , 2009, , .		4
23	Analysis of the vertical structure of deep ocean noise using measurements from the SPICEX and PhilSea experiments. Proceedings of Meetings on Acoustics, 2013, , .	0.3	4
24	Reduced rank models for travel time estimation of low order mode pulses. Journal of the Acoustical Society of America, 2013, 134, 3332-3346.	0.5	4
25	SINR loss of the dominant mode rejection beamformer. , 2015, , .		4
26	Convergence rate of the dominant mode rejection beamformer for a single interferer. , 2013, , .		3
27	Implementing physical constraints for noise only normal mode shape estimation. Proceedings of Meetings on Acoustics, 2013, , .	0.3	3
28	Cross Term Decay in Multiplicative Processors. IEEE Signal Processing Letters, 2020, 27, 56-60.	2.1	2
29	Random Matrix Theory Predictions of Dominant Mode Rejection Beamformer Performance. IEEE Open Journal of Signal Processing, 2022, 3, 229-245.	2.3	2
30	Workshop - The Signals and Systems Concept Inventory. , 2008, , .		1
31	Signals and systems assessment: Comparison of responses to multiple choice conceptual questions and open-ended final exam problems. , 2011, , .		1
32	Approximate eigenvalue distribution of a cylindrically isotropic noise sample covariance matrix. , 2012, , .		1
33	An improved whitening transformation for snapshot-deficient scenarios. , 2015, , .		1
34	Improving whitening filter design using broadband snapshots. , 2016, , .		1
35	2016 IEEE Education Society Awards, 2016 Frontiers in Education Conference Awards, and Selected IEEE Awards. IEEE Transactions on Education, 2017, 60, 67-77.	2.0	1
36	Experimental Evaluation of a Universal Dominant Mode Rejection Beamformer. , 2018, , .		1

#	Article	IF	Citations
37	Narrowband Acoustic Mode Estimation Using Performance-Weighted Blended Filtering. , 2021, , .		1
38	ABF performance using covariance matrices derived from spatial spectra for large arrays. , 2009, , .		0
39	Using in-class assessment to inform signals and systems instruction. , 2011, , .		0
40	Effect of array tilt on estimates of vertical ambient noise spectrum. , 2015, , .		0
41	Passive Coprime Split Aperture Beamforming. , 2018, , .		0
42	Array processing techniques for broadband mode estimation. Journal of the Acoustical Society of America, 1997, 101, 3113-3114.	0.5	0
43	Statistical characterization of the largest DMR-whitened eigenvalue for source enumeration. , 2018, , .		0