

Chun-Lin Liu

List of Publications by Year in descending order

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39
papers

1,844
citations

1163117

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40
docs citations

40
times ranked

745
citing authors

#	ARTICLE	IF	CITATIONS
1	Super Nested Arrays: Linear Sparse Arrays With Reduced Mutual Couplingâ€”Part I: Fundamentals. IEEE Transactions on Signal Processing, 2016, 64, 3997-4012.	5.3	441
2	Remarks on the Spatial Smoothing Step in Coarray MUSIC. IEEE Signal Processing Letters, 2015, 22, 1438-1442.	3.6	393
3	Super Nested Arrays: Linear Sparse Arrays With Reduced Mutual Couplingâ€”Part II: High-Order Extensions. IEEE Transactions on Signal Processing, 2016, 64, 4203-4217.	5.3	221
4	Cram�r-Rao bounds for coprime and other sparse arrays, which find more sources than sensors. , 2017, 61, 43-61.		213
5	Coprime coarray interpolation for DOA estimation via nuclear norm minimization. , 2016, , .		107
6	One-bit sparse array DOA estimation. , 2017, , .		81
7	Hourglass Arrays and Other Novel 2-D Sparse Arrays With Reduced Mutual Coupling. IEEE Transactions on Signal Processing, 2017, 65, 3369-3383.	5.3	60
8	Super nested arrays: Sparse arrays with less mutual coupling than nested arrays. , 2016, , .		40
9	Maximally economic sparse arrays and cantor arrays. , 2017, , .		40
10	Robustness of Difference Coarrays of Sparse Arrays to Sensor Failuresâ€”Part I: A Theory Motivated by Coarray MUSIC. IEEE Transactions on Signal Processing, 2019, 67, 3213-3226.	5.3	38
11	Robustness of Difference Coarrays of Sparse Arrays to Sensor Failuresâ€”Part II: Array Geometries. IEEE Transactions on Signal Processing, 2019, 67, 3227-3242.	5.3	27
12	Coprime arrays and samplers for space-time adaptive processing. , 2015, , .		23
13	Improved implementation algorithms of the two-dimensional nonseparable linear canonical transform. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 1615.	1.5	19
14	Tensor MUSIC in multidimensional sparse arrays. , 2015, , .		19
15	Optimizing Minimum Redundancy Arrays for Robustness. , 2018, , .		16
16	Correlation Subspaces: Generalizations and Connection to Difference Coarrays. IEEE Transactions on Signal Processing, 2017, 65, 5006-5020.	5.3	14
17	Comparison of Sparse Arrays From Viewpoint of Coarray Stability and Robustness. , 2018, , .		12
18	High order super nested arrays. , 2016, , .		11

#	ARTICLE	IF	CITATIONS
19	Robustness of Coarrays of Sparse Arrays to Sensor Failures. , 2018, , .		11
20	Novel algorithms for analyzing the robustness of difference coarrays to sensor failures. Signal Processing, 2020, 171, 107517.	3.7	6
21	A general form of 2D Fourier transform eigenfunctions. , 2012, , .		5
22	Differential commuting operator and closed-form eigenfunctions for linear canonical transforms. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 2096.	1.5	5
23	Two-dimensional sparse arrays with hole-free coarray and reduced mutual coupling. , 2016, , .		5
24	New Cram�r-Rao bound expressions for coprime and other sparse arrays. , 2016, , .		5
25	Discrete Spherical Harmonic Oscillator Transforms on the Cartesian Grids Using Transformation Coefficients. IEEE Transactions on Signal Processing, 2013, 61, 1149-1164.	5.3	4
26	Design of coprime DFT arrays and filter banks. , 2014, , .		4
27	Coprime DFT filter bank design: Theoretical bounds and guarantees. , 2015, , .		3
28	Discrete Laguerre Gaussian Transforms and Their Applications. IEEE Transactions on Signal Processing, 2016, 64, 3156-3166.	5.3	3
29	Composite Singer Arrays with Hole-free Coarrays and Enhanced Robustness. , 2019, , .		3
30	Closed-Form Output Response of Discrete-Time Linear Time-Invariant Systems Using Intermediate Auxiliary Functions [Lecture Notes]. IEEE Signal Processing Magazine, 2020, 37, 140-145.	5.6	3
31	One-Bit Autocorrelation Estimation With Non-Zero Thresholds. , 2021, , .		3
32	A General Framework for the Robustness of Structured Difference Coarrays to Element Failures. , 2020, , .		2
33	On the Size and Redundancy of the Fourth-Order Difference Co-Array. IEEE Signal Processing Letters, 2021, 28, 2013-2017.	3.6	2
34	Half Inverted Nested Arrays with Large Hole-Free Fourth-Order Difference Co-Arrays. , 2022, , .		2
35	The generalized fractional fourier transform. , 2012, , .		1
36	3D rotation estimation using discrete spherical harmonic oscillator transforms. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
37	One-Bit Normalized Scatter Matrix Estimation For Complex Elliptically Symmetric Distributions. , 2020, , .		1
38	The role of difference coarrays in correlation subspaces. , 2017, , .		0
39	Sparse Array Source Enumeration Via Coarray Subspace Optimization. , 2022, , .		0