

Yuejie Chi

List of Publications by Year in descending order

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106
papers

3,132
citations

304368

22
h-index

197535

49
g-index

106
all docs

106
docs citations

106
times ranked

2053
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensitivity to Basis Mismatch in Compressed Sensing. IEEE Transactions on Signal Processing, 2011, 59, 2182-2195.	3.2	761
2	Robust Spectral Compressed Sensing via Structured Matrix Completion. IEEE Transactions on Information Theory, 2014, 60, 6576-6601.	1.5	203
3	Off-the-Grid Line Spectrum Denoising and Estimation With Multiple Measurement Vectors. IEEE Transactions on Signal Processing, 2016, 64, 1257-1269.	3.2	194
4	Nonconvex Optimization Meets Low-Rank Matrix Factorization: An Overview. IEEE Transactions on Signal Processing, 2019, 67, 5239-5269.	3.2	186
5	Compressive Two-Dimensional Harmonic Retrieval via Atomic Norm Minimization. IEEE Transactions on Signal Processing, 2015, 63, 1030-1042.	3.2	158
6	Exact and Stable Covariance Estimation From Quadratic Sampling via Convex Programming. IEEE Transactions on Information Theory, 2015, 61, 4034-4059.	1.5	126
7	Harnessing Structures in Big Data via Guaranteed Low-Rank Matrix Estimation: Recent Theory and Fast Algorithms via Convex and Nonconvex Optimization. IEEE Signal Processing Magazine, 2018, 35, 14-31.	4.6	104
8	PETRELS: Parallel Subspace Estimation and Tracking by Recursive Least Squares From Partial Observations. IEEE Transactions on Signal Processing, 2013, 61, 5947-5959.	3.2	102
9	Guaranteed Blind Sparse Spikes Deconvolution via Lifting and Convex Optimization. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 782-794.	7.3	93
10	Harnessing Sparsity Over the Continuum: Atomic norm minimization for superresolution. IEEE Signal Processing Magazine, 2020, 37, 39-57.	4.6	83
11	Gradient descent with random initialization: fast global convergence for nonconvex phase retrieval. Mathematical Programming, 2019, 176, 5-37.	1.6	81
12	Implicit Regularization in Nonconvex Statistical Estimation: Gradient Descent Converges Linearly for Phase Retrieval, Matrix Completion, and Blind Deconvolution. Foundations of Computational Mathematics, 2020, 20, 451-632.	1.5	63
13	Classification and Boosting with Multiple Collaborative Representations. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 1519-1531.	9.7	58
14	Rethinking PCA for Modern Data Sets: Theory, Algorithms, and Applications [Scanning the Issue]. Proceedings of the IEEE, 2018, 106, 1274-1276.	16.4	58
15	Streaming PCA and Subspace Tracking: The Missing Data Case. Proceedings of the IEEE, 2018, 106, 1293-1310.	16.4	50
16	Sensitivity to basis mismatch in compressed sensing. , 2010, , .		49
17	Noisy Matrix Completion: Understanding Statistical Guarantees for Convex Relaxation via Nonconvex Optimization. SIAM Journal on Optimization, 2020, 30, 3098-3121.	1.2	44
18	Blind Deconvolution From Multiple Sparse Inputs. IEEE Signal Processing Letters, 2016, 23, 1384-1388.	2.1	43

#	ARTICLE	IF	CITATIONS
19	3D multifocus astigmatism and compressed sensing (3D MACS) based superresolution reconstruction. Biomedical Optics Express, 2015, 6, 902.	1.5	29
20	Median-Truncated Nonconvex Approach for Phase Retrieval With Outliers. IEEE Transactions on Information Theory, 2018, 64, 7287-7310.	1.5	27
21	PETRELS: Subspace estimation and tracking from partial observations. , 2012, , .		25
22	Quantized Spectral Compressed Sensing: Cramer-Rao Bounds and Recovery Algorithms. IEEE Transactions on Signal Processing, 2018, 66, 3268-3279.	3.2	25
23	Low-Rank Positive Semidefinite Matrix Recovery From Corrupted Rank-One Measurements. IEEE Transactions on Signal Processing, 2017, 65, 397-408.	3.2	24
24	Analysis of fisher information and the Cramer-Rao bound for nonlinear parameter estimation after compressed sensing. , 2013, , .		23
25	Joint sparsity recovery for spectral compressed sensing. , 2014, , .		23
26	Kaczmarz Method for Solving Quadratic Equations. IEEE Signal Processing Letters, 2016, 23, 1183-1187.	2.1	23
27	Training Signal Design and Tradeoffs for Spectrally-Efficient Multi-User MIMO-OFDM Systems. IEEE Transactions on Wireless Communications, 2011, 10, 2234-2245.	6.1	22
28	Super-Resolution Image Reconstruction for High-Density Three-Dimensional Single-Molecule Microscopy. IEEE Transactions on Computational Imaging, 2017, 3, 763-773.	2.6	22
29	Range sidelobe suppression in a desired Doppler interval. , 2009, , .		19
30	Fast two-dimensional super-resolution image reconstruction algorithm for ultra-high emitter density. Optics Letters, 2015, 40, 2989.	1.7	18
31	Fast Global Convergence of Natural Policy Gradient Methods with Entropy Regularization. Operations Research, 2022, 70, 2563-2578.	1.2	18
32	Compressive recovery of 2-D off-grid frequencies. , 2013, , .		17
33	Non-convex low-rank matrix recovery with arbitrary outliers via median-truncated gradient descent. Information and Inference, 2020, 9, 289-325.	0.9	17
34	On the Stable Resolution Limit of Total Variation Regularization for Spike Deconvolution. IEEE Transactions on Information Theory, 2020, 66, 7237-7252.	1.5	17
35	Low-Rank Matrix Recovery With Scaled Subgradient Methods: Fast and Robust Convergence Without the Condition Number. IEEE Transactions on Signal Processing, 2021, 69, 2396-2409.	3.2	17
36	Device-free Multiple People Localization through Floor Vibration. , 2019, , .		17

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37	Subspace Learning From Bits. IEEE Transactions on Signal Processing, 2017, 65, 4429-4442.	3.2	14
38	Vector-Valued Graph Trend Filtering With Non-Convex Penalties. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 48-62.	1.6	13
39	Subspace estimation from unbalanced and incomplete data matrices: $\hat{\alpha}, \hat{\alpha}^2$ statistical guarantees. Annals of Statistics, 2021, 49, .	1.4	13
40	Sample Complexity of Asynchronous Q-Learning: Sharper Analysis and Variance Reduction. IEEE Transactions on Information Theory, 2022, 68, 448-473.	1.5	12
41	Low-Rank Matrix Completion [Lecture Notes]. IEEE Signal Processing Magazine, 2018, 35, 178-181.	4.6	10
42	Guaranteed Recovery of One-Hidden-Layer Neural Networks via Cross Entropy. IEEE Transactions on Signal Processing, 2020, 68, 3225-3235.	3.2	10
43	Nonconvex Matrix Factorization From Rank-One Measurements. IEEE Transactions on Information Theory, 2021, 67, 1928-1950.	1.5	10
44	Compressive demodulation of mutually interfering signals. , 2012, , .		9
45	Stochastic Approximation and Memory-Limited Subspace Tracking for Poisson Streaming Data. IEEE Transactions on Signal Processing, 2018, 66, 1051-1064.	3.2	9
46	Sparse MIMO radar via structured matrix completion. , 2013, , .		8
47	Convergence of Distributed Stochastic Variance Reduced Methods Without Sampling Extra Data. IEEE Transactions on Signal Processing, 2020, 68, 3976-3989.	3.2	8
48	Compressive blind source separation. , 2010, , .		7
49	Connecting the dots in multi-class classification: From nearest subspace to collaborative representation. , 2012, , .		7
50	Coherence-based performance guarantees of Orthogonal Matching Pursuit. , 2012, , .		7
51	Estimation of simultaneously structured covariance matrices from quadratic measurements. , 2014, , .		7
52	Robust and universal covariance estimation from quadratic measurements via convex programming. , 2014, , .		7
53	Low-Rank Structured Covariance Matrix Estimation. IEEE Signal Processing Letters, 2019, 26, 700-704.	2.1	7
54	Stable separation and super-resolution of mixture models. Applied and Computational Harmonic Analysis, 2019, 46, 1-39.	1.1	7

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55	Beyond Procrustes: Balancing-Free Gradient Descent for Asymmetric Low-Rank Matrix Sensing. IEEE Transactions on Signal Processing, 2021, 69, 867-877.	3.2	7
56	Regularized blind detection for MIMO communications. , 2010, , .		6
57	Knowledge-enhanced Matching Pursuit. , 2013, , .		6
58	Analytical convergence regions of accelerated gradient descent in nonconvex optimization under Regularity Condition. Automatica, 2020, 113, 108715.	3.0	6
59	Manifold Gradient Descent Solves Multi-Channel Sparse Blind Deconvolution Provably and Efficiently. IEEE Transactions on Information Theory, 2021, 67, 4784-4811.	1.5	6
60	Compressed Super-Resolution of Positive Sources. IEEE Signal Processing Letters, 2021, 28, 56-60.	2.1	6
61	Golay complementary waveforms for sparse delay-Doppler radar imaging. , 2009, , .		4
62	Diagnostic grade wireless ECG monitoring. , 2011, 2011, 850-5.		4
63	Compressive parameter estimation with multiple measurement vectors via structured low-rank covariance estimation. , 2014, , .		4
64	Orthogonal Matching Pursuit on Faulty Circuits. IEEE Transactions on Communications, 2015, 63, 2541-2554.	4.9	4
65	A Non-Convex Approach To Joint Sensor Calibration And Spectrum Estimation. , 2018, , .		4
66	Local Geometry of Cross Entropy Loss in Learning One-Hidden-Layer Neural Networks. , 2019, , .		4
67	Self-Calibrated Super Resolution. , 2019, , .		4
68	Convex relaxations of spectral sparsity for robust super-resolution and line spectrum estimation. , 2017, , .		4
69	Low-rank matrix recovery with poison noise. , 2013, , .		3
70	Nearest subspace classification with missing data. , 2013, , .		3
71	Compressive graph clustering from random sketches. , 2015, , .		3
72	Principal subspace estimation for low-rank Toeplitz covariance matrices with binary sensing. , 2016, , .		3

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73	Super-resolution image reconstruction for high-density 3D single-molecule microscopy. , 2016, , .		3
74	Terahertz Imaging of Binary Reflectance with Variational Bayesian Inference. , 2018, , .		3
75	Beyond Procrustes: Balancing-free Gradient Descent for Asymmetric Low-Rank Matrix Sensing. , 2019, , .		3
76	Manifold Gradient Descent Solves Multi-Channel Sparse Blind Deconvolution Provably and Efficiently. , 2020, , .		3
77	Data Quality-Informed Multiple Occupant Localization using Floor Vibration Sensing. , 2020, , .		3
78	On Training Signal Design for Multi-User MIMO-OFDM: Performance Analysis and Tradeoffs. , 2011, , .		2
79	Covariance tracking from sketches of rapid data streams. , 2015, , .		2
80	Kronecker covariance sketching for spatial-temporal data. , 2016, , .		2
81	Non-convex low-rank matrix recovery from corrupted random linear measurements. , 2017, , .		2
82	Compressive spectrum estimation using quantized measurements. , 2017, , .		2
83	On the Sensitivity of Spectral Initialization for Noisy Phase Retrieval. , 2019, , .		2
84	Median-Truncated Gradient Descent: A Robust and Scalable Nonconvex Approach for Signal Estimation. Applied and Numerical Harmonic Analysis, 2019, , 237-261.	0.1	2
85	Improving Graph Trend Filtering with Non-convex Penalties. , 2019, , .		2
86	Shift-invariant Subspace Tracking with Missing Data. , 2019, , .		2
87	Low-Rank Matrix Recovery with Scaled Subgradient Methods: Fast and Robust Convergence Without the Condition Number. , 2021, , .		2
88	One-bit principal subspace estimation. , 2014, , .		2
89	Accelerating ILL-Conditioned Robust Low-Rank Tensor Regression. , 2022, , .		2
90	Resolving spatial modes of lasers via matrix completion. Optics Letters, 2013, 38, 3957.	1.7	1

#	ARTICLE	IF	CITATIONS
91	Change-point estimation of high-dimensional streaming data via sketching. , 2015, , .		1
92	Super-resolution of mutually interfering signals. , 2015, , .		1
93	MAP estimation of structured covariance matrices for space-time adaptive processing. , 2017, , .		1
94	Solving Quadratic Equations via Amplitude-based Nonconvex Optimization. , 2019, , .		1
95	Learning Latent Features with Pairwise Penalties in Low-Rank Matrix Completion. , 2020, , .		1
96	Learning Latent Features With Pairwise Penalties in Low-Rank Matrix Completion. IEEE Transactions on Signal Processing, 2020, 68, 4210-4225.	3.2	1
97	Compressed Sensing, Sparse Inversion, and Model Mismatch. Applied and Numerical Harmonic Analysis, 2015, , 75-95.	0.1	1
98	Blind calibration of multi-channel samplers using sparse recovery. , 2015, , .		0
99	Blind super-resolution of sparse spike signals. , 2015, , .		0
100	Parameter estimation for mixture models via convex optimization. , 2015, , .		0
101	Outlier-robust recovery of low-rank positive semidefinite matrices from magnitude measurements. , 2016, , .		0
102	Robust blind spikes deconvolution. , 2016, , .		0
103	Performance bounds for modal analysis using sparse linear arrays. Proceedings of SPIE, 2017, , .	0.8	0
104	Memory-Limited stochastic approximation for poisson subspace tracking. , 2017, , .		0
105	Support Stability of Spike Deconvolution via Total Variation Minimization. , 2020, , .		0
106	Privacy-Preserving Federated Multi-Task Linear Regression: A One-Shot Linear Mixing Approach Inspired By Graph Regularization. , 2022, , .		0