

# Ami Wiesel

## List of Publications by Year in descending order

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56  
papers

1,987  
citations

516215

16  
h-index

552369

26  
g-index

56  
all docs

56  
docs citations

56  
times ranked

2027  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic reconfiguration of the default mode network during narrative comprehension. Nature Communications, 2016, 7, 12141.	5.8	441
2	Shrinkage Algorithms for MMSE Covariance Estimation. IEEE Transactions on Signal Processing, 2010, 58, 5016-5029.	3.2	346
3	Learning to Detect. IEEE Transactions on Signal Processing, 2019, 67, 2554-2564.	3.2	316
4	Geodesic Convexity and Covariance Estimation. IEEE Transactions on Signal Processing, 2012, 60, 6182-6189.	3.2	96
5	Power System State Estimation Using PMUs With Imperfect Synchronization. IEEE Transactions on Power Systems, 2013, 28, 4162-4172.	4.6	90
6	Unified Framework to Regularized Covariance Estimation in Scaled Gaussian Models. IEEE Transactions on Signal Processing, 2012, 60, 29-38.	3.2	82
7	Multivariate Generalized Gaussian Distribution: Convexity and Graphical Models. IEEE Transactions on Signal Processing, 2013, 61, 4141-4148.	3.2	68
8	Time Varying Autoregressive Moving Average Models for Covariance Estimation. IEEE Transactions on Signal Processing, 2013, 61, 2791-2801.	3.2	44
9	Decomposable Principal Component Analysis. IEEE Transactions on Signal Processing, 2009, 57, 4369-4377.	3.2	41
10	Structured Robust Covariance Estimation. Foundations and Trends in Signal Processing, 2015, 8, 127-216.	12.0	40
11	Tyler's Covariance Matrix Estimator in Elliptical Models With Convex Structure. IEEE Transactions on Signal Processing, 2014, 62, 5251-5259.	3.2	36
12	Covariance Estimation in Decomposable Gaussian Graphical Models. IEEE Transactions on Signal Processing, 2010, 58, 1482-1492.	3.2	33
13	Distributed Covariance Estimation in Gaussian Graphical Models. IEEE Transactions on Signal Processing, 2012, 60, 211-220.	3.2	31
14	Performance Analysis of Tyler's Covariance Estimator. IEEE Transactions on Signal Processing, 2015, 63, 418-426.	3.2	30
15	Multidimensional Shrinkage-Thresholding Operator and Group LASSO Penalties. IEEE Signal Processing Letters, 2011, 18, 363-366.	2.1	29
16	Automatic diagonal loading for Tyler's robust covariance estimator. , 2016, , .		26
17	Invariance Theory for Adaptive Detection in Interference With Group Symmetric Covariance Matrix. IEEE Transactions on Signal Processing, 2016, 64, 6299-6312.	3.2	25
18	Low rank approximation based hybrid precoding schemes for multi-carrier single-user massive MIMO systems. , 2016, , .		24

#	ARTICLE	IF	CITATIONS
19	A channel matching based hybrid analog-digital strategy for massive multi-user MIMO downlink systems. , 2016, , .		22
20	Group Symmetric Robust Covariance Estimation. IEEE Transactions on Signal Processing, 2016, 64, 244-257.	3.2	21
21	A multidimensional shrinkage-thresholding operator. , 2009, , .		18
22	Distributed principal component analysis on networks via directed graphical models. , 2012, , .		15
23	Proper Quaternion Gaussian Graphical Models. IEEE Transactions on Signal Processing, 2014, 62, 5487-5496.	3.2	14
24	Marginal Likelihoods for Distributed Parameter Estimation of Gaussian Graphical Models. IEEE Transactions on Signal Processing, 2014, 62, 5425-5438.	3.2	13
25	Fitting Generalized Multivariate Huber Loss Functions. IEEE Signal Processing Letters, 2016, 23, 1647-1651.	2.1	10
26	Robust shrinkage estimation of high-dimensional covariance matrices. , 2010, , .		9
27	Synthetic Aperture Radar autofocus via Semidefinite Relaxation. , 2010, , .		8
28	Unmixing $K$ -Gaussians With Application to Hyperspectral Imaging. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7281-7293.	2.7	8
29	Principal component analysis in decomposable Gaussian graphical models. , 2009, , .		6
30	Regularized covariance estimation in scaled Gaussian models. , 2011, , .		5
31	Distributed change detection in Gaussian graphical models. , 2012, , .		4
32	Group symmetry and non-Gaussian covariance estimation. , 2013, , .		4
33	Signal Detection in Complex Structured Para Normal Noise. IEEE Transactions on Signal Processing, 2017, 65, 2306-2316.	3.2	4
34	Joint Estimation of Inverse Covariance Matrices Lying in an Unknown Subspace. IEEE Transactions on Signal Processing, 2017, 65, 2379-2388.	3.2	4
35	Fair Principal Component Analysis and Filter Design. IEEE Transactions on Signal Processing, 2021, 69, 4835-4842.	3.2	4
36	Maximum likelihood SAR autofocus with low-return region. , 2011, , .		3

#	ARTICLE	IF	CITATIONS
37	Order-Preserving Factor Analysis Application to Longitudinal Gene Expression. IEEE Transactions on Signal Processing, 2011, 59, 4447-4458.	3.2	3
38	On the convexity in Kronecker structured covariance estimation. , 2012, , .		2
39	Marginal likelihoods for distributed estimation of graphical model parameters. , 2013, , .		2
40	State estimation with consideration of PMU phase mismatch for smart grids. , 2013, , .		2
41	Joint covariance estimation with mutual linear structure. , 2015, , .		2
42	Detection with phaseless measurements. , 2016, , .		2
43	Gaussian graphical models for proper quaternion distributions. , 2013, , .		1
44	Compressed matched filter for non-Gaussian noise. , 2014, , .		1
45	Joint Covariance Estimation With Mutual Linear Structure. IEEE Transactions on Signal Processing, 2016, 64, 1550-1561.	3.2	1
46	Spectral Algorithm for Shared Low-rank Matrix Regressions. , 2020, , .		1
47	Distributed covariance estimation in Gaussian graphical models. , 2010, , .		0
48	Misaligned Principal Components Analysis: Application to gene expression time series analysis. , 2011, , .		0
49	A sparse multi-class classifier for biomarker screening. , 2013, , .		0
50	Performance bounds and sensor placement for state estimation using PMUs with phase mismatch. , 2013, , .		0
51	Robust semi-definite relaxation MIMO detection in a non-gaussian channel. , 2013, , .		0
52	Covariance estimation in elliptical models with convex structure. , 2014, , .		0
53	Joint inverse covariances estimation with mutual linear structure. , 2015, , .		0
54	Tyler's estimator performance analysis. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
55	Quaternion structured paranormal distributions. , 2016, , .		0
56	Robust multitask Elliptical Regression (ROMER). , 2019, , .		0