

# Jack W Silverstein

## List of Publications by Year in descending order

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54  
papers

5,172  
citations

218592

26  
h-index

223716

46  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1716  
citing authors

#	ARTICLE	IF	CITATIONS
1	A tribute to P.R. Krishnaiah. Journal of Multivariate Analysis, 2021, , 104828.	0.5	0
2	Singular values of large non-central random matrices. Random Matrices: Theory and Application, 2020, 09, 2050012.	0.5	4
3	The random matrix regime of Maronna's M-estimator with elliptically distributed samples. Journal of Multivariate Analysis, 2015, 139, 56-78.	0.5	40
4	A note on the CLT of the LSS for sample covariance matrix from a spiked population model. Journal of Multivariate Analysis, 2014, 130, 194-207.	0.5	16
5	Robust Estimates of Covariance Matrices in the Large Dimensional Regime. IEEE Transactions on Information Theory, 2014, 60, 7269-7278.	1.5	51
6	Separation of the largest eigenvalues in eigenanalysis of genotype data from discrete subpopulations. Theoretical Population Biology, 2013, 89, 34-43.	0.5	22
7	A joint robust estimation and random matrix framework with application to array processing. , 2013, , .		3
8	A CLT FOR INFORMATION-THEORETIC STATISTICS OF NON-CENTERED GRAM RANDOM MATRICES. Random Matrices: Theory and Application, 2012, 01, 1150010.	0.5	23
9	NO EIGENVALUES OUTSIDE THE SUPPORT OF THE LIMITING SPECTRAL DISTRIBUTION OF INFORMATION-PLUS-NOISE TYPE MATRICES. Random Matrices: Theory and Application, 2012, 01, 1150004.	0.5	25
10	Eigen-Inference for Energy Estimation of Multiple Sources. IEEE Transactions on Information Theory, 2011, 57, 2420-2439.	1.5	37
11	A Deterministic Equivalent for the Analysis of Correlated MIMO Multiple Access Channels. IEEE Transactions on Information Theory, 2011, 57, 3493-3514.	1.5	111
12	Random Matrix Theory. , 2011, , 1168-1170.		0
13	Fundamental Limit of Sample Generalized Eigenvalue Based Detection of Signals in Noise Using Relatively Few Signal-Bearing and Noise-Only Samples. IEEE Journal on Selected Topics in Signal Processing, 2010, 4, 468-480.	7.3	104
14	Spectral Analysis of Large Dimensional Random Matrices. Springer Series in Statistics, 2010, , .	0.9	683
15	Eigen-inference for multi-source power estimation. , 2010, , .		2
16	Rate region of correlated MIMO multiple access channels and broadcast channels. , 2009, , .		0
17	No eigenvalues outside the support of the limiting empirical spectral distribution of a separable covariance matrix. Journal of Multivariate Analysis, 2009, 100, 37-57.	0.5	50
18	Asymptotic capacity of multi-user MIMO communications. , 2009, , .		6

#	ARTICLE	IF	CITATIONS
19	THE STIELTJES TRANSFORM AND ITS ROLE IN EIGENVALUE BEHAVIOR OF LARGE DIMENSIONAL RANDOM MATRICES. Lecture Notes Series, Institute for Mathematical Sciences, 2009, , 1-25.	0.2	4
20	CLT FOR LINEAR SPECTRAL STATISTICS OF LARGE-DIMENSIONAL SAMPLE COVARIANCE MATRICES. , 2008, , .		5
21	COLLABORATION WITH A DEAR FRIEND AND COLLEAGUE. , 2008, , .		0
22	Fundamental Limit of Sample Eigenvalue based Detection of Signals in Colored Noise using Relatively Few Samples. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	3
23	On the signal-to-interference ratio of CDMA systems in wireless communications. Annals of Applied Probability, 2007, 17, .	0.6	27
24	On the empirical distribution of eigenvalues of large dimensional information-plus-noise-type matrices. Journal of Multivariate Analysis, 2007, 98, 678-694.	0.5	102
25	Analysis of the limiting spectral distribution of large dimensional information-plus-noise type matrices. Journal of Multivariate Analysis, 2007, 98, 1099-1122.	0.5	48
26	Theory of Large Dimensional Random Matrices for Engineers. , 2006, , .		13
27	Gaussian fluctuations for non-Hermitian random matrix ensembles. Annals of Probability, 2006, 34, 2118.	0.8	33
28	Eigenvalues of large sample covariance matrices of spiked population models. Journal of Multivariate Analysis, 2006, 97, 1382-1408.	0.5	443
29	CLT for linear spectral statistics of large-dimensional sample covariance matrices. Annals of Probability, 2004, 32, 553.	0.8	315
30	Exact Separation of Eigenvalues of Large Dimensional Sample Covariance Matrices. Annals of Probability, 1999, 27, 1536.	0.8	92
31	No eigenvalues outside the support of the limiting spectral distribution of large-dimensional sample covariance matrices. Annals of Probability, 1998, 26, 316.	0.8	329
32	On the Empirical Distribution of Eigenvalues of a Class of Large Dimensional Random Matrices. Journal of Multivariate Analysis, 1995, 54, 175-192.	0.5	500
33	Analysis of the Limiting Spectral Distribution of Large Dimensional Random Matrices. Journal of Multivariate Analysis, 1995, 54, 295-309.	0.5	182
34	Strong Convergence of the Empirical Distribution of Eigenvalues of Large Dimensional Random Matrices. Journal of Multivariate Analysis, 1995, 55, 331-339.	0.5	377
35	The spectral radii and norms of large dimensional non-central random atrices matrices. Stochastic Models, 1994, 10, 525-532.	0.3	20
36	Signal detection via spectral theory of large dimensional random matrices. IEEE Transactions on Signal Processing, 1992, 40, 2100-2105.	3.2	56

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37	Weak Convergence of Random Functions Defined by The Eigenvectors of Sample Covariance Matrices. Annals of Probability, 1990, 18, .	0.8	45
38	On the weak limit of the largest eigenvalue of a large dimensional sample covariance matrix. Journal of Multivariate Analysis, 1989, 30, 307-311.	0.5	27
39	On the eigenvectors of large dimensional sample covariance matrices. Journal of Multivariate Analysis, 1989, 30, 1-16.	0.5	43
40	A note on the largest eigenvalue of a large dimensional sample covariance matrix. Journal of Multivariate Analysis, 1988, 26, 166-168.	0.5	113
41	The Limiting Eigenvalue Distribution of a Multivariate F Matrix. SIAM Journal on Mathematical Analysis, 1985, 16, 641-646.	0.9	45
42	The Smallest Eigenvalue of a Large Dimensional Wishart Matrix. Annals of Probability, 1985, 13, 1364.	0.8	145
43	Some limit theorems on the eigenvectors of large dimensional sample covariance matrices. Journal of Multivariate Analysis, 1984, 15, 295-324.	0.5	26
44	Comments on a result of Yin, Bai, and Krishnaiah for large dimensional multivariate F matrices. Journal of Multivariate Analysis, 1984, 15, 408-409.	0.5	7
45	Describing the Behavior of Eigenvectors of Random Matrices Using Sequences of Measures on Orthogonal Groups. SIAM Journal on Mathematical Analysis, 1981, 12, 274-281.	0.9	19
46	A nonlinear system with singular vector field near equilibria. Applicable Analysis, 1981, 12, 57-71.	0.6	0
47	On the Randomness of Eigenvectors Generated from Networks with Random Topologies. SIAM Journal on Applied Mathematics, 1979, 37, 235-245.	0.8	12
48	Reply to Grossberg.. Psychological Review, 1978, 85, 597-603.	2.7	10
49	Distinctive features, categorical perception, and probability learning: Some applications of a neural model.. Psychological Review, 1977, 84, 413-451.	2.7	818
50	Spectral Analysis of Networks with Random Topologies. SIAM Journal on Applied Mathematics, 1977, 32, 499-519.	0.8	71
51	Asymptotics applied to a neural network. Biological Cybernetics, 1976, 22, 73-84.	0.6	6
52	Vowel pre-processing with a neurally based model. , 0, , .		5
53	Large dimensional random matrix theory for signal detection and estimation in array processing. , 0, , .		8
54	Weak Convergence of a Collection of Random Functions Defined by the Eigenvectors of Large Dimensional Random Matrices. Random Matrices: Theory and Application, 0, , .	0.5	0