

Benjamin Recht

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

10,375
citations

411340

20
h-index

759306

22
g-index

38
all docs

38
docs citations

38
times ranked

7498
citing authors

#	ARTICLE	IF	CITATIONS
1	A generalizable and accessible approach to machine learning with global satellite imagery. Nature Communications, 2021, 12, 4392.	5.8	28
2	First-order methods almost always avoid strict saddle points. Mathematical Programming, 2019, 176, 311-337.	1.6	61
3	Isometric sketching of any set via the Restricted Isometry Property. Information and Inference, 2018, 7, 707-726.	0.9	13
4	Superresolution without separation. Information and Inference, 2018, 7, 1-30.	0.9	25
5	Sharp Time-Data Tradeoffs for Linear Inverse Problems. IEEE Transactions on Information Theory, 2018, 64, 4129-4158.	1.5	34
6	The Alternating Descent Conditional Gradient Method for Sparse Inverse Problems. SIAM Journal on Optimization, 2017, 27, 616-639.	1.2	88
7	Compressive Classification and the Rare Eclipse Problem. Applied and Numerical Harmonic Analysis, 2017, , 197-220.	0.1	10
8	Superresolution without separation. , 2015, , .		12
9	Near Minimax Line Spectral Estimation. IEEE Transactions on Information Theory, 2015, 61, 499-512.	1.5	121
10	3D imaging in volumetric scattering media using phase-space measurements. Optics Express, 2015, 23, 14461.	1.7	67
11	Efficient matrix completion for seismic data reconstruction. Geophysics, 2015, 80, V97-V114.	1.4	74
12	Fast algorithm for 3D localization through scattering media: forward model and physics. , 2015, , .		0
13	Robust line spectral estimation. , 2014, , .		13
14	Blind Deconvolution Using Convex Programming. IEEE Transactions on Information Theory, 2014, 60, 1711-1732.	1.5	310
15	Parallel stochastic gradient algorithms for large-scale matrix completion. Mathematical Programming Computation, 2013, 5, 201-226.	3.2	163
16	Compressed Sensing Off the Grid. IEEE Transactions on Information Theory, 2013, 59, 7465-7490.	1.5	845
17	Simple bounds for recovering low-complexity models. Mathematical Programming, 2013, 141, 577-589.	1.6	43
18	Near minimax line spectral estimation. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
19	Atomic Norm Denoising With Applications to Line Spectral Estimation. IEEE Transactions on Signal Processing, 2013, 61, 5987-5999.	3.2	366
20	Decomposition Methods for Large Scale LP Decoding. IEEE Transactions on Information Theory, 2013, 59, 7870-7886.	1.5	93
21	Sparse recovery over continuous dictionaries-just discretize. , 2013, , .		47
22	Linear system identification via atomic norm regularization. , 2012, , .		70
23	The ℓ_1 penalized decoder and its reweighted LP. , 2012, , .		2
24	The Convex Geometry of Linear Inverse Problems. Foundations of Computational Mathematics, 2012, 12, 805-849.	1.5	775
25	Suppressing pseudocodewords by penalizing the objective of LP decoding. , 2012, , .		20
26	Exact matrix completion via convex optimization. Communications of the ACM, 2012, 55, 111-119.	3.3	383
27	Decomposition methods for large scale LP decoding. , 2011, , .		22
28	Atomic norm denoising with applications to line spectral estimation. , 2011, , .		32
29	Null space conditions and thresholds for rank minimization. Mathematical Programming, 2011, 127, 175-202.	1.6	88
30	Probability of unique integer solution to a system of linear equations. European Journal of Operational Research, 2011, 214, 27-30.	3.5	42
31	High-dimensional Matched Subspace Detection when data are missing. , 2010, , .		42
32	Online identification and tracking of subspaces from highly incomplete information. , 2010, , .		216
33	Guaranteed Minimum-Rank Solutions of Linear Matrix Equations via Nuclear Norm Minimization. SIAM Review, 2010, 52, 471-501.	4.2	2,443
34	Sample complexity for 1-bit compressed sensing and sparse classification. , 2010, , .		48
35	The Convex algebraic geometry of linear inverse problems. , 2010, , .		36
36	Exact Matrix Completion via Convex Optimization. Foundations of Computational Mathematics, 2009, 9, 717-772.	1.5	3,570

#	ARTICLE	IF	CITATIONS
37	Exact low-rank matrix completion via convex optimization. , 2008, , .		88
38	Necessary and sufficient conditions for success of the nuclear norm heuristic for rank minimization. , 2008, , .		84