

Deanna Needell

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

2,783

citations

20

h-index

52

g-index

69

ext. papers

3,486

ext. citations

2.1

avg, IF

6.01

L-index

#	Paper	IF	Citations
62	Uniform Uncertainty Principle and Signal Recovery via Regularized Orthogonal Matching Pursuit. <i>Foundations of Computational Mathematics</i> , 2009 , 9, 317-334	2.7	559
61	Compressed sensing with coherent and redundant dictionaries. <i>Applied and Computational Harmonic Analysis</i> , 2011 , 31, 59-73	3.1	501
60	Signal Recovery From Incomplete and Inaccurate Measurements Via Regularized Orthogonal Matching Pursuit. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2010 , 4, 310-316	7.5	493
59	Stable Image Reconstruction Using Total Variation Minimization. <i>SIAM Journal on Imaging Sciences</i> , 2013 , 6, 1035-1058	1.9	150
58	Randomized Kaczmarz solver for noisy linear systems. <i>BIT Numerical Mathematics</i> , 2010 , 50, 395-403	1.7	109
57	Paved with good intentions: Analysis of a randomized block Kaczmarz method. <i>Linear Algebra and Its Applications</i> , 2014 , 441, 199-221	0.9	90
56	HOSVD-Based Algorithm for Weighted Tensor Completion. <i>Journal of Imaging</i> , 2021 , 7, 110	3.1	78
55	Convergence Properties of the Randomized Extended Gauss-Seidel and Kaczmarz Methods. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2015 , 36, 1590-1604	1.5	75
54	Near-optimal compressed sensing guarantees for total variation minimization. <i>IEEE Transactions on Image Processing</i> , 2013 , 22, 3941-9	8.7	67
53	Stochastic gradient descent, weighted sampling, and the randomized Kaczmarz algorithm. <i>Mathematical Programming</i> , 2016 , 155, 549-573	2.1	66
52	. <i>IEEE Transactions on Information Theory</i> , 2013 , 59, 6820-6829	2.8	64
51	Acceleration of randomized Kaczmarz method via the Johnson-Lindenstrauss Lemma. <i>Numerical Algorithms</i> , 2011 , 58, 163-177	2.1	64
50	Randomized block Kaczmarz method with projection for solving least squares. <i>Linear Algebra and Its Applications</i> , 2015 , 484, 322-343	0.9	50
49	. <i>IEEE Transactions on Information Theory</i> , 2017 , 63, 3368-3385	2.8	44
48	Greedy signal recovery review 2008 ,		41
47	Compressive Sensing with Redundant Dictionaries and Structured Measurements. <i>SIAM Journal on Mathematical Analysis</i> , 2015 , 47, 4606-4629	1.7	40
46	Noisy signal recovery via iterative reweighted L1-minimization 2009 ,		36

45	Two-Subspace Projection Method for Coherent Overdetermined Systems. <i>Journal of Fourier Analysis and Applications</i> , 2013 , 19, 256-269	1.1	23
44	Linear Convergence of Stochastic Iterative Greedy Algorithms With Sparse Constraints. <i>IEEE Transactions on Information Theory</i> , 2017 , 63, 6869-6895	2.8	22
43	A Sampling Kaczmarz--Motzkin Algorithm for Linear Feasibility. <i>SIAM Journal of Scientific Computing</i> , 2017 , 39, S66-S87	2.6	21
42	Rows versus Columns: Randomized Kaczmarz or Gauss--Seidel for Ridge Regression. <i>SIAM Journal of Scientific Computing</i> , 2017 , 39, S528-S542	2.6	18
41	Mixed operators in compressed sensing 2010 ,		16
40	Greedy signal space methods for incoherence and beyond. <i>Applied and Computational Harmonic Analysis</i> , 2015 , 39, 1-20	3.1	15
39	On Motzkin's method for inconsistent linear systems. <i>BIT Numerical Mathematics</i> , 2019 , 59, 387-401	1.7	14
38	Biquasiles and dual graph diagrams. <i>Journal of Knot Theory and Its Ramifications</i> , 2017 , 26, 1750048	0.3	12
37	Constrained Adaptive Sensing. <i>IEEE Transactions on Signal Processing</i> , 2016 , 64, 5437-5449	4.8	12
36	An algebraic perspective on integer sparse recovery. <i>Applied Mathematics and Computation</i> , 2019 , 340, 31-42	2.7	11
35	Block Kaczmarz Method with Inequalities. <i>Journal of Mathematical Imaging and Vision</i> , 2015 , 52, 385-396	1.6	9
34	Near oracle performance and block analysis of signal space greedy methods. <i>Journal of Approximation Theory</i> , 2015 , 194, 157-174	0.9	7
33	Iterative Methods for Solving Factorized Linear Systems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2018 , 39, 104-122	1.5	7
32	IRG2016: RBF-based regional geoid model of Iran. <i>Studia Geophysica Et Geodaetica</i> , 2018 , 62, 380-407	0.7	7
31	Randomized Kaczmarz with averaging. <i>BIT Numerical Mathematics</i> , 2021 , 61, 337-359	1.7	7
30	On block Gaussian sketching for the Kaczmarz method. <i>Numerical Algorithms</i> , 2021 , 86, 443-473	2.1	5
29	Randomized Projection Methods for Linear Systems with Arbitrarily Large Sparse Corruptions. <i>SIAM Journal of Scientific Computing</i> , 2019 , 41, S19-S36	2.6	4
28	. <i>IEEE Transactions on Signal Processing</i> , 2019 , 67, 1875-1888	4.8	4

27	Modified fuzzy clustering with segregated cluster centroids. <i>Neurocomputing</i> , 2019 , 361, 10-18	5.4	4
26	On Adaptive Sketch-and-Project for Solving Linear Systems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2021 , 42, 954-989	1.5	4
25	Antibiotic Treatment Response in Chronic Lyme Disease: Why Do Some Patients Improve While Others Do Not?. <i>Healthcare (Switzerland)</i> , 2020 , 8,	3.4	3
24	An Introduction to Fourier Analysis with Applications to Music. <i>Journal of Humanistic Mathematics</i> , 2014 , 4, 72-91	1.3	3
23	. <i>IEEE Transactions on Information Theory</i> , 2021 , 67, 1264-1290	2.8	3
22	A Bayesian Approach for Asynchronous Parallel Sparse Recovery 2018 ,		3
21	Matrix Completion for Structured Observations 2018 ,		3
20	Lattices from equiangular tight frames. <i>Linear Algebra and Its Applications</i> , 2016 , 510, 395-420	0.9	2
19	Randomized projections for corrupted linear systems 2018 ,		2
18	Robust CUR Decomposition: Theory and Imaging Applications. <i>SIAM Journal on Imaging Sciences</i> , 2021 , 14, 1472-1503	1.9	2
17	Sketching for Motzkin's Iterative Method for Linear Systems 2019 ,		2
16	Boltzmann enhancements of biquasile counting invariants. <i>Journal of Knot Theory and Its Ramifications</i> , 2018 , 27, 1850068	0.3	2
15	Stochastic Gradient Descent Variants for Corrupted Systems of Linear Equations 2020 ,		1
14	Optimizing Quantization for Lasso Recovery. <i>IEEE Signal Processing Letters</i> , 2018 , 25, 45-49	3.2	1
13	Guaranteed Sparse Signal Recovery with Highly Coherent Sensing Matrices. <i>Sampling Theory in Signal and Information Processing</i> , 2014 , 13, 91-109	0.5	1
12	Stochastic Iterative Hard Thresholding for Low-Tucker-Rank Tensor Recovery 2020 ,		1
11	Feature Selection from Lyme Disease Patient Survey Using Machine Learning. <i>Algorithms</i> , 2020 , 13, 334	1.8	1
10	Lower Memory Oblivious (Tensor) Subspace Embeddings with Fewer Random Bits: Modewise Methods for Least Squares. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2021 , 42, 376-416	1.5	1

9	Quantile-Based Iterative Methods for Corrupted Systems of Linear Equations. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2022 , 43, 605-637	1.5	1
8	Guided Semi-Supervised Non-Negative Matrix Factorization. <i>Algorithms</i> , 2022 , 15, 136	1.8	1
7	Tribracket Modules. <i>International Journal of Mathematics</i> , 2020 , 31, 2050028	0.5	0
6	An iterative method for classification of binary data. <i>Information and Inference</i> , 2021 , 10, 261-283	2.4	0
5	Data-driven algorithm selection and tuning in optimization and signal processing. <i>Annals of Mathematics and Artificial Intelligence</i> , 2020 , 89, 711	0.8	
4	Bias of Homotopic Gradient Descent for the Hinge Loss. <i>Applied Mathematics and Optimization</i> , 2020 , 84, 621	1.5	
3	A Simple Recovery Framework for Signals with Time-Varying Sparse Support. <i>Association for Women in Mathematics Series</i> , 2021 , 211-230	0.2	
2	Classification Scheme for Binary Data with Extensions. <i>Applied and Numerical Harmonic Analysis</i> , 2019 , 129-151	0.6	
1	Analysis of fast structured dictionary learning. <i>Information and Inference</i> , 2020 , 9, 785-811	2.4	