

# Deanna Needell

## List of Publications by Year in Descending Order

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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	Quantile-Based Iterative Methods for Corrupted Systems of Linear Equations. <i>SIAM Journal on Matrix Analysis and Applications</i> , <b>2022</b> , 43, 605-637	1.5	1
61	Guided Semi-Supervised Non-Negative Matrix Factorization. <i>Algorithms</i> , <b>2022</b> , 15, 136	1.8	1
60	A Simple Recovery Framework for Signals with Time-Varying Sparse Support. <i>Association for Women in Mathematics Series</i> , <b>2021</b> , 211-230	0.2	
59	Robust CUR Decomposition: Theory and Imaging Applications. <i>SIAM Journal on Imaging Sciences</i> , <b>2021</b> , 14, 1472-1503	1.9	2
58	HOSVD-Based Algorithm for Weighted Tensor Completion. <i>Journal of Imaging</i> , <b>2021</b> , 7, 110	3.1	78
57	An iterative method for classification of binary data. <i>Information and Inference</i> , <b>2021</b> , 10, 261-283	2.4	0
56	On block Gaussian sketching for the Kaczmarz method. <i>Numerical Algorithms</i> , <b>2021</b> , 86, 443-473	2.1	5
55	Randomized Kaczmarz with averaging. <i>BIT Numerical Mathematics</i> , <b>2021</b> , 61, 337-359	1.7	7
54	Lower Memory Oblivious (Tensor) Subspace Embeddings with Fewer Random Bits: Modewise Methods for Least Squares. <i>SIAM Journal on Matrix Analysis and Applications</i> , <b>2021</b> , 42, 376-416	1.5	1
53	. <i>IEEE Transactions on Information Theory</i> , <b>2021</b> , 67, 1264-1290	2.8	3
52	On Adaptive Sketch-and-Project for Solving Linear Systems. <i>SIAM Journal on Matrix Analysis and Applications</i> , <b>2021</b> , 42, 954-989	1.5	4
51	Data-driven algorithm selection and tuning in optimization and signal processing. <i>Annals of Mathematics and Artificial Intelligence</i> , <b>2020</b> , 89, 711	0.8	
50	Antibiotic Treatment Response in Chronic Lyme Disease: Why Do Some Patients Improve While Others Do Not?. <i>Healthcare (Switzerland)</i> , <b>2020</b> , 8,	3.4	3
49	Stochastic Gradient Descent Variants for Corrupted Systems of Linear Equations <b>2020</b> ,		1
48	Bias of Homotopic Gradient Descent for the Hinge Loss. <i>Applied Mathematics and Optimization</i> , <b>2020</b> , 84, 621	1.5	
47	Tribracket Modules. <i>International Journal of Mathematics</i> , <b>2020</b> , 31, 2050028	0.5	0
46	Analysis of fast structured dictionary learning. <i>Information and Inference</i> , <b>2020</b> , 9, 785-811	2.4	

45	Stochastic Iterative Hard Thresholding for Low-Tucker-Rank Tensor Recovery <b>2020</b> ,			1
44	Feature Selection from Lyme Disease Patient Survey Using Machine Learning. <i>Algorithms</i> , <b>2020</b> , 13, 334	1.8		1
43	Randomized Projection Methods for Linear Systems with Arbitrarily Large Sparse Corruptions. <i>SIAM Journal of Scientific Computing</i> , <b>2019</b> , 41, S19-S36	2.6		4
42	. <i>IEEE Transactions on Signal Processing</i> , <b>2019</b> , 67, 1875-1888	4.8		4
41	Modified fuzzy clustering with segregated cluster centroids. <i>Neurocomputing</i> , <b>2019</b> , 361, 10-18	5.4		4
40	Classification Scheme for Binary Data with Extensions. <i>Applied and Numerical Harmonic Analysis</i> , <b>2019</b> , 129-151	0.6		
39	Sketching for Motzkin's Iterative Method for Linear Systems <b>2019</b> ,			2
38	An algebraic perspective on integer sparse recovery. <i>Applied Mathematics and Computation</i> , <b>2019</b> , 340, 31-42	2.7		11
37	On Motzkin's method for inconsistent linear systems. <i>BIT Numerical Mathematics</i> , <b>2019</b> , 59, 387-401	1.7		14
36	Optimizing Quantization for Lasso Recovery. <i>IEEE Signal Processing Letters</i> , <b>2018</b> , 25, 45-49	3.2		1
35	Iterative Methods for Solving Factorized Linear Systems. <i>SIAM Journal on Matrix Analysis and Applications</i> , <b>2018</b> , 39, 104-122	1.5		7
34	IRG2016: RBF-based regional geoid model of Iran. <i>Studia Geophysica Et Geodaetica</i> , <b>2018</b> , 62, 380-407	0.7		7
33	Randomized projections for corrupted linear systems <b>2018</b> ,			2
32	Boltzmann enhancements of biquasile counting invariants. <i>Journal of Knot Theory and Its Ramifications</i> , <b>2018</b> , 27, 1850068	0.3		2
31	A Bayesian Approach for Asynchronous Parallel Sparse Recovery <b>2018</b> ,			3
30	Matrix Completion for Structured Observations <b>2018</b> ,			3
29	Biquasiles and dual graph diagrams. <i>Journal of Knot Theory and Its Ramifications</i> , <b>2017</b> , 26, 1750048	0.3		12
28	. <i>IEEE Transactions on Information Theory</i> , <b>2017</b> , 63, 3368-3385	2.8		44

27	A Sampling Kaczmarz--Motzkin Algorithm for Linear Feasibility. <i>SIAM Journal of Scientific Computing</i> , <b>2017</b> , 39, S66-S87	2.6	21
26	Rows versus Columns: Randomized Kaczmarz or Gauss--Seidel for Ridge Regression. <i>SIAM Journal of Scientific Computing</i> , <b>2017</b> , 39, S528-S542	2.6	18
25	Linear Convergence of Stochastic Iterative Greedy Algorithms With Sparse Constraints. <i>IEEE Transactions on Information Theory</i> , <b>2017</b> , 63, 6869-6895	2.8	22
24	Constrained Adaptive Sensing. <i>IEEE Transactions on Signal Processing</i> , <b>2016</b> , 64, 5437-5449	4.8	12
23	Lattices from equiangular tight frames. <i>Linear Algebra and Its Applications</i> , <b>2016</b> , 510, 395-420	0.9	2
22	Stochastic gradient descent, weighted sampling, and the randomized Kaczmarz algorithm. <i>Mathematical Programming</i> , <b>2016</b> , 155, 549-573	2.1	66
21	Block Kaczmarz Method with Inequalities. <i>Journal of Mathematical Imaging and Vision</i> , <b>2015</b> , 52, 385-396	1.6	9
20	Near oracle performance and block analysis of signal space greedy methods. <i>Journal of Approximation Theory</i> , <b>2015</b> , 194, 157-174	0.9	7
19	Randomized block Kaczmarz method with projection for solving least squares. <i>Linear Algebra and Its Applications</i> , <b>2015</b> , 484, 322-343	0.9	50
18	Greedy signal space methods for incoherence and beyond. <i>Applied and Computational Harmonic Analysis</i> , <b>2015</b> , 39, 1-20	3.1	15
17	Convergence Properties of the Randomized Extended Gauss--Seidel and Kaczmarz Methods. <i>SIAM Journal on Matrix Analysis and Applications</i> , <b>2015</b> , 36, 1590-1604	1.5	75
16	Compressive Sensing with Redundant Dictionaries and Structured Measurements. <i>SIAM Journal on Mathematical Analysis</i> , <b>2015</b> , 47, 4606-4629	1.7	40
15	Paved with good intentions: Analysis of a randomized block Kaczmarz method. <i>Linear Algebra and Its Applications</i> , <b>2014</b> , 441, 199-221	0.9	90
14	An Introduction to Fourier Analysis with Applications to Music. <i>Journal of Humanistic Mathematics</i> , <b>2014</b> , 4, 72-91	1.3	3
13	Guaranteed Sparse Signal Recovery with Highly Coherent Sensing Matrices. <i>Sampling Theory in Signal and Information Processing</i> , <b>2014</b> , 13, 91-109	0.5	1
12	Two-Subspace Projection Method for Coherent Overdetermined Systems. <i>Journal of Fourier Analysis and Applications</i> , <b>2013</b> , 19, 256-269	1.1	23
11	Stable Image Reconstruction Using Total Variation Minimization. <i>SIAM Journal on Imaging Sciences</i> , <b>2013</b> , 6, 1035-1058	1.9	150
10	Near-optimal compressed sensing guarantees for total variation minimization. <i>IEEE Transactions on Image Processing</i> , <b>2013</b> , 22, 3941-9	8.7	67

9	. <i>IEEE Transactions on Information Theory</i> , <b>2013</b> , 59, 6820-6829	2.8	64
8	Acceleration of randomized Kaczmarz method via the Johnson–Lindenstrauss Lemma. <i>Numerical Algorithms</i> , <b>2011</b> , 58, 163-177	2.1	64
7	Compressed sensing with coherent and redundant dictionaries. <i>Applied and Computational Harmonic Analysis</i> , <b>2011</b> , 31, 59-73	3.1	501
6	Mixed operators in compressed sensing <b>2010</b> ,		16
5	Signal Recovery From Incomplete and Inaccurate Measurements Via Regularized Orthogonal Matching Pursuit. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2010</b> , 4, 310-316	7.5	493
4	Randomized Kaczmarz solver for noisy linear systems. <i>BIT Numerical Mathematics</i> , <b>2010</b> , 50, 395-403	1.7	109
3	Uniform Uncertainty Principle and Signal Recovery via Regularized Orthogonal Matching Pursuit. <i>Foundations of Computational Mathematics</i> , <b>2009</b> , 9, 317-334	2.7	559
2	Noisy signal recovery via iterative reweighted L1-minimization <b>2009</b> ,		36
1	Greedy signal recovery review <b>2008</b> ,		41