

Simon Foucart

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

3,028
citations

623734

14
h-index

377865

34
g-index

38
all docs

38
docs citations

38
times ranked

2203
citing authors

#	ARTICLE	IF	CITATIONS
1	A Mathematical Introduction to Compressive Sensing. Applied and Numerical Harmonic Analysis, 2013, ,	0.3	1,434
2	Sparsist solutions of underdetermined linear systems via ℓ_1 -minimization for ℓ_1 -minimization Applied and Computational Harmonic Analysis, 2009, 26, 395-407.	2.2	529
3	Hard Thresholding Pursuit: An Algorithm for Compressive Sensing. SIAM Journal on Numerical Analysis, 2011, 49, 2543-2563.	2.3	300
4	A note on guaranteed sparse recovery via ℓ_1 -minimization. Applied and Computational Harmonic Analysis, 2010, 29, 97-103.	2.2	132
5	Stability and robustness of ℓ_1 -minimization The Celfand widths of ℓ_1 -minimization Journal of Complexity, 2010, 26, 629-640.	0.9	91
6	Exponential Decay of Reconstruction Error From Binary Measurements of Sparse Signals. IEEE Transactions on Information Theory, 2017, 63, 3368-3385.	1.3	76
7	Sparse Recovery Algorithms: Sufficient Conditions in Terms of Restricted Isometry Constants. Springer Proceedings in Mathematics, 2012, , 65-77.	2.4	69
8	Sparse Recovery by Means of Nonnegative Least Squares. IEEE Signal Processing Letters, 2014, 21, 498-502.	0.5	65
9	Hard thresholding pursuit algorithms: Number of iterations. Applied and Computational Harmonic Analysis, 2016, 41, 412-435.	3.6	50
10	Quikr: a method for rapid reconstruction of bacterial communities via compressive sensing. Bioinformatics, 2013, 29, 2096-2102.	2.2	40
11	WGSQuikr: Fast Whole-Genome Shotgun Metagenomic Classification. PLoS ONE, 2014, 9, e91784.	4.1	39
12	Sparse recovery with pre-Gaussian random matrices. Studia Mathematica, 2010, 200, 91-102.	2.5	36
13	Flavors of Compressive Sensing. Springer Proceedings in Mathematics and Statistics, 2017, , 61-104.	0.7	21
14	Computing a Quantity of Interest from Observational Data. Constructive Approximation, 2019, 49, 461-508.	0.2	17
15	Iterative hard thresholding for low-rank recovery from rank-one projections. Linear Algebra and Its Applications, 2019, 572, 117-134.	3.0	14
16	On maximal relative projection constants. Journal of Mathematical Analysis and Applications, 2017, 447, 309-328.	0.9	14
17	Dictionary-Sparse Recovery via Thresholding-Based Algorithms. Journal of Fourier Analysis and Applications, 2016, 22, 6-19.	1.0	11
18		1.0	9

#	ARTICLE	IF	CITATIONS
19	An IHT Algorithm for Sparse Recovery From Subexponential Measurements. IEEE Signal Processing Letters, 2017, 24, 1280-1283.	3.6	9
20	Computation of Chebyshev Polynomials for Union of Intervals. Computational Methods and Function Theory, 2019, 19, 625-641.	1.5	8
21	Sparse recovery from saturated measurements. Information and Inference, 2016, , iaw020.	1.6	7
22	Sparse Recovery from Inaccurate Saturated Measurements. Acta Applicandae Mathematicae, 2018, 158, 49-66.	1.0	7
23	Restricted Isometry Property. Applied and Numerical Harmonic Analysis, 2013, , 133-174.	0.3	6
24	Jointly low-rank and bisparse recovery: Questions and partial answers. Analysis and Applications, 2020, 18, 25-48.	2.2	6
25	Sparse disjointed recovery from noninflating measurements. Applied and Computational Harmonic Analysis, 2015, 39, 558-567.	2.2	5
26	Instances of Computational Optimal Recovery: Dealing with Observation Errors. SIAM-ASA Journal on Uncertainty Quantification, 2021, 9, 1438-1456.	2.0	5
27	Computation of Minimal Projections and Extensions. Numerical Functional Analysis and Optimization, 2016, 37, 159-185.	1.4	4
28	Instances of computational optimal recovery: Refined approximability models. Journal of Complexity, 2021, 62, 101503.	1.3	4
29	Allometry constants of finite-dimensional spaces: theory and computations. Numerische Mathematik, 2009, 112, 535-564.	1.9	2
30	Determining projection constants of univariate polynomial spaces. Journal of Approximation Theory, 2018, 235, 74-91.	0.8	2
31	On the best conditioned bases of quadratic polynomials. Journal of Approximation Theory, 2004, 130, 46-56.	0.8	1
32	Approximability models and optimal system identification. Mathematics of Control, Signals, and Systems, 2020, 32, 19-41.	2.3	1
33	Learning from non-random data in Hilbert spaces: an optimal recovery perspective. Sampling Theory, Signal Processing, and Data Analysis, 2022, 20, 1.	1.1	1
34	On the norms and minimal properties of de la Vallée Poussin's type operators. Monatshefte Fur Mathematik, 2018, 185, 601-619.	0.9	0