Simon Foucart

List of Publications by Year
in descending order

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Version: 2024-02-01

34	3,028	623734	377865
papers	citations	14 h-index	34 g-index

38	38	38	2203
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Instances of computational optimal recovery: Refined approximability models. Journal of Complexity, 2021, 62, 101503.	1.3	4
3	Instances of Computational Optimal Recovery: Dealing with Observation Errors. SIAM-ASA Journal on Uncertainty Quantification, 2021, 9, 1438-1456.	2.0	5
4	Approximability models and optimal system identification. Mathematics of Control, Signals, and Systems, 2020, 32, 19-41.	2.3	1
5	Jointly low-rank and bisparse recovery: Questions and partial answers. Analysis and Applications, 2020, 18, 25-48.	2.2	6
6	Computing a Quantity of Interest from Observational Data. Constructive Approximation, 2019, 49, 461-508.	3.0	14
7	Computation of Chebyshev Polynomials for Union of Intervals. Computational Methods and Function Theory, 2019, 19, 625-641.	1.5	8
8	Iterative hard thresholding for low-rank recovery from rank-one projections. Linear Algebra and Its Applications, 2019, 572, 117-134.	0.9	14
9	Sparse Recovery from Inaccurate Saturated Measurements. Acta Applicandae Mathematicae, 2018, 158, 49-66.	1.0	7
10	On the norms and minimal properties of de la VallÃ©e Poussinâ€™s type operators. Monatshefte Fur Mathematik, 2018, 185, 601-619.	0.9	0
11	Determining projection constants of univariate polynomial spaces. Journal of Approximation Theory, 2018, 235, 74-91.	0.8	2
12	Exponential Decay of Reconstruction Error From Binary Measurements of Sparse Signals. IEEE Transactions on Information Theory, 2017, 63, 3368-3385.	2.4	69
13	An IHT Algorithm for Sparse Recovery From Subexponential Measurements. IEEE Signal Processing Letters, 2017, 24, 1280-1283.	3.6	9
14	On maximal relative projection constants. Journal of Mathematical Analysis and Applications, 2017, 447, 309-328.	1.0	11
15	Flavors of Compressive Sensing. Springer Proceedings in Mathematics and Statistics, 2017, , 61-104.	0.2	17
16	Sparse recovery from saturated measurements. Information and Inference, 2016, , iaw020.	1.6	7
17	Hard thresholding pursuit algorithms: Number of iterations. Applied and Computational Harmonic Analysis, 2016, 41, 412-435.	2.2	40
18	Computation of Minimal Projections and Extensions. Numerical Functional Analysis and Optimization, 2016, 37, 159-185.	1.4	4

#	Article	IF	Citations
19	Dictionary-Sparse Recovery via Thresholding-Based Algorithms. Journal of Fourier Analysis and Applications, 2016, 22, 6-19.	1.0	9
20	Sparse disjointed recovery from noninflating measurements. Applied and Computational Harmonic Analysis, 2015, 39, 558-567.	2.2	5
21	WGSQuikr: Fast Whole-Genome Shotgun Metagenomic Classification. PLoS ONE, 2014, 9, e91784.	2.5	36
22	Sparse Recovery by Means of Nonnegative Least Squares. IEEE Signal Processing Letters, 2014, 21, 498-502.	3.6	50
23	Stability and robustness of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi>â„“</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn> with Weibull matrices and redundant dictionaries. Linear Algebra and Its Applications, 2014, 441, 4-21.	0.9	91
24	A Mathematical Introduction to Compressive Sensing. Applied and Numerical Harmonic Analysis, 2013, , .	0.3	1,434
25	Quikr: a method for rapid reconstruction of bacterial communities via compressive sensing. Bioinformatics, 2013, 29, 2096-2102.	4.1	39
26	Restricted Isometry Property. Applied and Numerical Harmonic Analysis, 2013, , 133-174.	0.3	6
27	Sparse Recovery Algorithms: Sufficient Conditions in Terms of Restricted Isometry Constants. Springer Proceedings in Mathematics, 2012, , 65-77.	0.5	65
28	Hard Thresholding Pursuit: An Algorithm for Compressive Sensing. SIAM Journal on Numerical Analysis, 2011, 49, 2543-2563.	2.3	300
29	A note on guaranteed sparse recovery via <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msub><mml:mi>â„“</mml:mi><mml:mn>1</mml:mn></mml:msub></mml:math>-minimization. The Gelfand widths of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif"	2.2	132
30	display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>â„“</mml:mi></mml:mrow><mml:mrow><mml:mi>p</mml:mi></mml:mrow></ for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" display="inline" overflow="scroll"><mml:mn>0</mml:mn><mml:mo><</mml:mo><mml:mi>p</mml:mi><mml:mo>â‰¤</mml:mo><mml:mn>1</mml:m Journal of Complexity, 2010, 26, 629-640.	1.3	76
31	Sparse recovery with pre-Gaussian random matrices. Studia Mathematica, 2010, 200, 91-102.	0.7	21
32	Sparsest solutions of underdetermined linear systems via <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msub><mml:mi>â„“</mml:mi><mml:mi>q</mml:mi></mml:msub></mml:math>-minimization for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" overflow="scroll"><mml:mn>0</mml:mn><mml:mo><</mml:mo><mml:mi>q</mml:mi><mml:mo>â©½</mml:mo><mml:mn>1</mm Applied and Computational Harmonic Analysis, 2009, 26, 395-407.	2.2	529
33	Allometry constants of finite-dimensional spaces: theory and computations. Numerische Mathematik, 2009, 112, 535-564.	1.9	2
34	On the best conditioned bases of quadratic polynomials. Journal of Approximation Theory, 2004, 130, 46-56.	0.8	1