Ming-Jun Lai

List of Publications by Year
in descending order

36 papers	**1,969** citations	516710 **16** h-index	377865 **34** g-index
36 all docs	**36** docs citations	**36** times ranked	**1595** citing authors

#	Article	IF	Citations
1	Construction of C1 polygonal splines over quadrilateral partitions. Computer Aided Geometric Design, 2022, 92, 102063.	1.2	1
2	On the Schatten p-quasi-norm minimization for low-rank matrix recovery. Applied and Computational Harmonic Analysis, 2021, 51, 157-170.	2.2	3
3	A Minimization Approach for Constructing Generalized Barycentric Coordinates and Its Computation. Journal of Scientific Computing, 2020, 84, 1.	2.3	0
4	>Efficient Estimation of Partially Linear Models for Data on Complicated Domains by Bivariate Penalized Splines over Triangulations. Statistica Sinica, 2020, , .	0.3	2
5	An economical representation of PDE solution by using compressive sensing approach. CAD Computer Aided Design, 2019, 115, 78-86.	2.7	4
6	Galerkin method with splines for total variation minimization. Journal of Algorithms and Computational Technology, 2019, 13, 174830181983304.	0.7	4
7	Sharp sufficient conditions for stable recovery of block sparse signals by block orthogonal matching pursuit. Applied and Computational Harmonic Analysis, 2019, 47, 948-974.	2.2	44
8	Parallel Multi-Block ADMM with o(1Â/Âk) Convergence. Journal of Scientific Computing, 2017, 71, 712-736.	2.3	258
9	On recursive refinement of convex polygons. Computer Aided Geometric Design, 2016, 45, 83-90.	1.2	7
10	Polygonal Spline Spaces and the Numerical Solution of the Poisson Equation. SIAM Journal on Numerical Analysis, 2016, 54, 797-824.	2.3	29
11	Efficient Spatial Modeling Using the SPDE Approach With Bivariate Splines. Journal of Computational and Graphical Statistics, 2016, 25, 1176-1194.	1.7	8
12	Orthogonal Rank-One Matrix Pursuit for Low Rank Matrix Completion. SIAM Journal of Scientific Computing, 2015, 37, A488-A514.	2.8	69
13	Scattered data interpolation with nonnegative preservation using bivariate splines and its application. Computer Aided Geometric Design, 2015, 34, 37-49.	1.2	9
14	The probabilistic estimates on the largest and smallest q-singular values of random matrices. Mathematics of Computation, 2014, 84, 1775-1794.	2.1	8
15	Box Spline Wavelet Frames for Image Edge Analysis. SIAM Journal on Imaging Sciences, 2013, 6, 1553-1578.	2.2	11
16	ACrtrivariate macro-element based on the Alfeld split of tetrahedra. Journal of Approximation Theory, 2013, 175, 114-131.	0.8	4
17	Scattered data interpolation by bivariate splines with higher approximation order. Journal of Computational and Applied Mathematics, 2013, 242, 125-140.	2.0	7
18	Improved Iteratively Reweighted Least Squares for Unconstrained Smoothed ell_q Minimization. SIAM Journal on Numerical Analysis, 2013, 51, 927-957.	2.3	298

#	Article	IF	Citations
19	Augmented ℓ_1 and Nuclear-Norm Models with a Globally Linearly Convergent Algorithm. SIAM Journal on Imaging Sciences, 2013, 6, 1059-1091.	2.2	61
20	Piecewise Linear Approximation of the Continuous Rudin--Osher--Fatemi Model for Image Denoising. SIAM Journal on Numerical Analysis, 2012, 50, 2446-2466.	2.3	7
21	Bivariate splines for ozone concentration forecasting. Environmetrics, 2012, 23, 317-328.	1.4	8
22	An Unconstrained ℓ_q Minimization with $0 \leq q \leq 1$ for Sparse Solution of Underdetermined Linear Systems. SIAM Journal on Optimization, 2011, 21, 82-101.	2.0	130
23	Initial Boundary Value Problem for Two-Dimensional Viscous Boussinesq Equations. Archive for Rational Mechanics and Analysis, 2011, 199, 739-760.	2.4	115
24	The null space property for sparse recovery from multiple measurement vectors. Applied and Computational Harmonic Analysis, 2011, 30, 402-406.	2.2	87
25	Convergence of discrete and penalized least squares spherical splines. Journal of Approximation Theory, 2011, 163, 1091-1106.	0.8	5
26	The Method of Virtual Components in the Multivariate Setting. Journal of Fourier Analysis and Applications, 2010, 16, 471-494.	1.0	3
27	Bivariate splines for spatial functional regression models. Journal of Nonparametric Statistics, 2010, 22, 477-497.	0.9	38
28	Sparse recovery with pre-Gaussian random matrices. Studia Mathematica, 2010, 200, 91-102.	0.7	21
29	Sparsest solutions of underdetermined linear systems via ℓ_q-minimization for $0 < q \leq 1$. Applied and Computational Harmonic Analysis, 2009, 26, 395-407.	2.2	529
30	Energy minimization method for scattered data Hermite interpolation. Applied Numerical Mathematics, 2008, 58, 646-659.	2.1	12
31	Method of virtual components for constructing redundant filter banks and wavelet frames. Applied and Computational Harmonic Analysis, 2007, 22, 304-318.	2.2	24
32	Construction of multivariate compactly supported tight wavelet frames. Applied and Computational Harmonic Analysis, 2006, 21, 324-348.	2.2	60
33	Bivariate spline method for numerical solution of time evolution Navier-Stokes equations over polygons in stream function formulation. Numerical Methods for Partial Differential Equations, 2003, 19, 776-827.	3.6	6
34	Title is missing!. BIT Numerical Mathematics, 2002, 42, 206-213.	2.0	12
35	Macro-elements and stable local bases for splines on Powell-Sabin triangulations. Mathematics of Computation, 2001, 72, 335-355.	2.1	43
36	Macro-elements and stable local bases for splines on Clough-Tocher triangulations. Numerische Mathematik, 2001, 88, 105-119.	1.9	42