

# Xue-Lei Lin

## List of Publications by Year in descending order

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17  
papers

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citations

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#	ARTICLE	IF	CITATIONS
1	A Splitting Preconditioner for Toeplitz-Like Linear Systems Arising from Fractional Diffusion Equations. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2017, 38, 1580-1614.	1.4	45
2	A multigrid method for linear systems arising from time-dependent two-dimensional space-fractional diffusion equations. <i>Journal of Computational Physics</i> , 2017, 336, 69-86.	3.8	35
3	Efficient preconditioner of one-sided space fractional diffusion equation. <i>BIT Numerical Mathematics</i> , 2018, 58, 729-748.	2.0	21
4	Stability and Convergence Analysis of Finite Difference Schemes for Time-Dependent Space-Fractional Diffusion Equations with Variable Diffusion Coefficients. <i>Journal of Scientific Computing</i> , 2018, 75, 1102-1127.	2.3	17
5	Crank–Nicolson Alternative Direction Implicit Method for Space-Fractional Diffusion Equations with Nonseparable Coefficients. <i>SIAM Journal on Numerical Analysis</i> , 2019, 57, 997-1019.	2.3	14
6	Tensor Factorization with Total Variation and Tikhonov Regularization for Low-Rank Tensor Completion in Imaging Data. <i>Journal of Mathematical Imaging and Vision</i> , 2020, 62, 900-918.	1.3	13
7	An All-at-Once Preconditioner for Evolutionary Partial Differential Equations. <i>SIAM Journal of Scientific Computing</i> , 2021, 43, A2766-A2784.	2.8	10
8	A fast accurate approximation method with multigrid solver for two-dimensional fractional sub-diffusion equation. <i>Journal of Computational Physics</i> , 2016, 323, 204-218.	3.8	9
9	A fast solver for multidimensional time–space fractional diffusion equation with variable coefficients. <i>Computers and Mathematics With Applications</i> , 2019, 78, 1477-1489.	2.7	9
10	A Separable Preconditioner for Time-Space Fractional Caputo-Riesz Diffusion Equations. <i>Numerical Mathematics</i> , 2018, 11, 827-853.	1.3	8
11	A parallel-in-time two-sided preconditioning for all-at-once system from a non-local evolutionary equation with weakly singular kernel. <i>Journal of Computational Physics</i> , 2021, 434, 110221.	3.8	6
12	An Efficient Second-Order Convergent Scheme for One-Side Space Fractional Diffusion Equations with Variable Coefficients. <i>Communications on Applied Mathematics and Computation</i> , 2020, 2, 215-239.	1.7	5
13	A $\tilde{L}_\infty$ -preconditioner for a non-symmetric linear system arising from multi-dimensional Riemann-Liouville fractional diffusion equation. <i>Numerical Algorithms</i> , 2023, 92, 795-813.	1.9	4
14	Preconditioning for symmetric positive definite systems in balanced fractional diffusion equations. <i>Numerische Mathematik</i> , 2021, 147, 651-677.	1.9	2
15	An unconditionally positivity-preserving implicit–explicit scheme for evolutionary stable distribution model. <i>Journal of Computational and Applied Mathematics</i> , 2022, 403, 113883.	2.0	1
16	Preconditioners for multilevel Toeplitz linear systems from steady-state and evolutionary advection-diffusion equations. <i>Applied Numerical Mathematics</i> , 2021, 161, 469-488.	2.1	0
17	Image Completion and Blind Deconvolution: Model and Algorithm. <i>Journal of Scientific Computing</i> , 2021, 89, 1.	2.3	0