

Leonid Knizhnerman

List of Publications by Year in Descending Order

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Version: 2024-04-29

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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.

27
papers

784
citations

12
h-index

27
g-index

27
ext. papers

862
ext. citations

2.3
avg, IF

3.85
L-index

#	Paper	IF	Citations
27	Residual and Restarting in Krylov Subspace Evaluation of the Svarphi Function. <i>SIAM Journal of Scientific Computing</i> , 2021 , 43, A3733-A3759	2.6	
26	Adaptive residual-time restarting for Krylov subspace matrix exponential evaluations. <i>Keldysh Institute Preprints</i> , 2019 , 1-28	0.3	
25	Near-Optimal Perfectly Matched Layers for Indefinite Helmholtz Problems. <i>SIAM Review</i> , 2016 , 58, 90-116	16.4	28
24	A black-box rational Arnoldi variant for Cauchy-Stieltjes matrix functions. <i>BIT Numerical Mathematics</i> , 2013 , 53, 595-616	1.7	30
23	Automated parameter selection for rational Arnoldi approximation of Markov functions. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2011 , 11, 15-18	0.2	9
22	Sensitivity of the Lanczos recurrence to Gaussian quadrature data: How malignant can small weights be?. <i>Journal of Computational and Applied Mathematics</i> , 2010 , 233, 1238-1244	2.4	
21	On Optimal Convergence Rate of the Rational Krylov Subspace Reduction for Electromagnetic Problems in Unbounded Domains. <i>SIAM Journal on Numerical Analysis</i> , 2009 , 47, 953-971	2.4	30
20	Solution of Large Scale Evolutionary Problems Using Rational Krylov Subspaces with Optimized Shifts. <i>SIAM Journal of Scientific Computing</i> , 2009 , 31, 3760-3780	2.6	62
19	A 3D parametric inversion algorithm for triaxial induction data. <i>Geophysics</i> , 2006 , 71, G1-G9	3.1	37
18	On the sensitivity of Lanczos recursions to the spectrum. <i>Linear Algebra and Its Applications</i> , 2005 , 396, 103-125	0.9	4
17	Finite-difference modeling of viscoelastic materials with quality factors of arbitrary magnitude. <i>Geophysics</i> , 2004 , 69, 817-824	3.1	12
16	Stability Estimates on the Jacobi and Unitary Hessenberg Inverse Eigenvalue Problems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2004 , 26, 154-169	1.5	2
15	An extended Krylov subspace method to simulate single-phase fluid flow phenomena in axisymmetric and anisotropic porous media. <i>Journal of Petroleum Science and Engineering</i> , 2003 , 40, 121-144	4.4	5
14	On Optimal Finite-Difference Approximation of PML. <i>SIAM Journal on Numerical Analysis</i> , 2003 , 41, 287-305	3.5	63
13	Application of the Difference Gaussian Rules to Solution of Hyperbolic Problems. <i>Journal of Computational Physics</i> , 2002 , 175, 24-49	4.1	7
12	Application of the Difference Gaussian Rules to Solution of Hyperbolic Problems. <i>Journal of Computational Physics</i> , 2000 , 158, 116-135	4.1	21
11	Gaussian spectral rules for second order finite-difference schemes. <i>Numerical Algorithms</i> , 2000 , 25, 139-159	1.5	20

10	On GMRES-Equivalent Bounded Operators. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2000 , 22, 195-212	1.5	1
9	Error bounds for the Arnoldi method: a set of extreme eigenpairs. <i>Linear Algebra and Its Applications</i> , 1999 , 296, 191-211	0.9	6
8	Gaussian Spectral Rules for the Three-Point Second Differences: I. A Two-Point Positive Definite Problem in a Semi-Infinite Domain. <i>SIAM Journal on Numerical Analysis</i> , 1999 , 37, 403-422	2.4	44
7	Extended Krylov Subspaces: Approximation of the Matrix Square Root and Related Functions. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1998 , 19, 755-771	1.5	154
6	Krylov subspace reduction and its extensions for option pricing. <i>Journal of Computational Finance</i> , 1997 , 1, 63-79	1.7	4
5	Krylov subspace approximation of eigenpairs and matrix functions in exact and computer arithmetic. <i>Numerical Linear Algebra With Applications</i> , 1995 , 2, 205-217	1.6	74
4	On application of the Lanczos method to solution of some partial differential equations. <i>Journal of Computational and Applied Mathematics</i> , 1994 , 50, 255-262	2.4	7
3	Spectral Lanczos decomposition method for solving single-phase fluid flow porous media. <i>Numerical Methods for Partial Differential Equations</i> , 1994 , 10, 569-580	2.5	4
2	Spectral approach to solving three-dimensional Maxwell's diffusion equations in the time and frequency domains. <i>Radio Science</i> , 1994 , 29, 937-953	1.4	156
1	The Lanczos optimization of a splitting-up method to solve homogeneous evolutionary equations. <i>Journal of Computational and Applied Mathematics</i> , 1992 , 42, 221-231	2.4	4