Leonid Knizhnerman

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27 862 2.3 3.85 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
27	Spectral approach to solving three-dimensional Maxwella diffusion equations in the time and frequency domains. <i>Radio Science</i> , 1994 , 29, 937-953	1.4	156
26	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
25	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
24	On Optimal Finite-Difference Approximation of PML. SIAM Journal on Numerical Analysis, 2003, 41, 287	-3:0.5	63
23	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
22	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
21	A 3D parametric inversion algorithm for triaxial induction data. <i>Geophysics</i> , 2006 , 71, G1-G9	3.1	37
20	A black-box rational Arnoldi variant for CauchyBtieltjes matrix functions. <i>BIT Numerical Mathematics</i> , 2013 , 53, 595-616	1.7	30
19	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
18	Near-Optimal Perfectly Matched Layers for Indefinite Helmholtz Problems. SIAM Review, 2016 , 58, 90-1	1,64	28
17	Application of the Difference Gaussian Rules to Solution of Hyperbolic Problems. <i>Journal of Computational Physics</i> , 2000 , 158, 116-135	4.1	21
16	Gaussian spectral rules for second order finite-difference schemes. <i>Numerical Algorithms</i> , 2000 , 25, 139	-159	20
15	Finite-difference modeling of viscoelastic materials with quality factors of arbitrary magnitude. <i>Geophysics</i> , 2004 , 69, 817-824	3.1	12
14	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
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	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
11	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

LIST OF PUBLICATIONS

10	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, 121-4	1 [.] 44	5
9	On the sensitivity of Lanczos recursions to the spectrum. <i>Linear Algebra and Its Applications</i> , 2005 , 396, 103-125	0.9	4
8	Spectral Lanczos decomposition method for solving single-phase fluid flow porous media. Numerical Methods for Partial Differential Equations, 1994, 10, 569-580	2.5	4
7	The Lanczos optimization of a splitting-up method to solve homogeneous evolutionary equations. Journal of Computational and Applied Mathematics, 1992 , 42, 221-231	2-4	4
6	Krylov subspace reduction and its extensions for option pricing. <i>Journal of Computational Finance</i> , 1997 , 1, 63-79	ı. ₇	4
5	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
4	On GMRES-Equivalent Bounded Operators. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2000 , 22, 195-212	1.5	1
3	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	
2	Residual and Restarting in Krylov Subspace Evaluation of the \$varphi\$ Function. <i>SIAM Journal of Scientific Computing</i> , 2021 , 43, A3733-A3759	2.6	
1	Adaptive residual-time restarting for Krylov subspace matrix exponential evaluations. <i>Keldysh</i> Institute Preprints, 2019 , 1-28	0.3	