

Stefano Serra Capizzano

List of Publications by Year in Descending Order

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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.

188
papers

2,618
citations

29
h-index

41
g-index

194
ext. papers

2,972
ext. citations

1.7
avg, IF

5.65
L-index

#	Paper	IF	Citations
188	Statistical Convergence via q-Calculus and a Korovkin Type Approximation Theorem. <i>Axioms</i> , 2022 , 11, 70	1.6	8
187	Numerical Simulations of Marble Sulfation. <i>Springer INdAM Series</i> , 2021 , 107-122	0.4	
186	A matrix-theoretic spectral analysis of incompressible Navier-Stokes staggered DG approximations and a related spectrally based preconditioning approach. <i>Numerische Mathematik</i> , 2021 , 149, 933-971	2.2	0
185	Multigrid methods for block-Toeplitz linear systems: convergence analysis and applications. <i>Numerical Linear Algebra With Applications</i> , 2021 , 28, e2356	1.6	1
184	The smallest singular value of certain Toeplitz-related parametric triangular matrices. <i>Special Matrices</i> , 2021 , 9, 103-111	0.5	
183	Fast Parallel Solver for the Space-time IgA-DG Discretization of the Diffusion Equation. <i>Journal of Scientific Computing</i> , 2021 , 89, 1	2.3	2
182	Computation of Asymptotic Spectral Distributions for Sequences of Grid Operators. <i>Computational Mathematics and Mathematical Physics</i> , 2020 , 60, 1761-1777	0.9	1
181	Spectral analysis of Pk Finite Element matrices in the case of Friedrichs-Keller triangulations via Generalized Locally Toeplitz technology. <i>Numerical Linear Algebra With Applications</i> , 2020 , 27, e2302	1.6	1
180	Multigrid for Q_k Finite Element Matrices Using a (Block) Toeplitz Symbol Approach. <i>Mathematics</i> , 2020 , 8, 5	2.3	2
179	Developing the First Intensity Prediction Equation Based on the Environmental Scale Intensity: A Case Study from Strong Normal-Faulting Earthquakes in the Italian Apennines. <i>Seismological Research Letters</i> , 2020 , 91, 2611-2623	3	3
178	Non-Hermitian perturbations of Hermitian matrix-sequences and applications to the spectral analysis of the numerical approximation of partial differential equations. <i>Numerical Linear Algebra With Applications</i> , 2020 , 27, e2286	1.6	5
177	On using a zero lower bound on the physical density in material distribution topology optimization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 359, 112669	5.7	0
176	Eigenpairs of some particular band Toeplitz matrices: A comment. <i>Numerical Linear Algebra With Applications</i> , 2020 , 27, e2273	1.6	
175	NURBS in isogeometric discretization methods: A spectral analysis. <i>Numerical Linear Algebra With Applications</i> , 2020 , 27, e2318	1.6	2
174	A level-set multigrid technique for nonlinear diffusion in the numerical simulation of marble degradation under chemical pollutants. <i>Applied Mathematics and Computation</i> , 2020 , 386, 125503	2.7	0
173	A Multigrid Method for Nonlocal Problems: Non-Diagonally Dominant or Toeplitz-Plus-Tridiagonal Systems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2020 , 41, 1546-1570	1.5	0
172	Fractional Laplace operator in two dimensions, approximating matrices, and related spectral analysis. <i>Calcolo</i> , 2020 , 57, 1	1.5	0

171	Asymptotic Spectra of Large (Grid) Graphs with a Uniform Local Structure (Part I): Theory. <i>Milan Journal of Mathematics</i> , 2020 , 88, 409-454	1	4
170	The Eigenvalue Distribution of Special 2-by-2 Block Matrix-Sequences with Applications to the Case of Symmetrized Toeplitz Structures. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2019 , 40, 1066-1086	1.5	10
169	Spectral and convergence analysis of the Discrete ALIF method. <i>Linear Algebra and Its Applications</i> , 2019 , 580, 62-95	0.9	15
168	A note on the spectral distribution of symmetrized Toeplitz sequences. <i>Linear Algebra and Its Applications</i> , 2019 , 579, 32-50	0.9	6
167	Eigenvalue Isogeometric Approximations Based on B-Splines: Tools and Results. <i>Springer INdAM Series</i> , 2019 , 57-76	0.4	
166	Block Locally Toeplitz Sequences: Construction and Properties. <i>Springer INdAM Series</i> , 2019 , 25-58	0.4	2
165	Block Generalized Locally Toeplitz Sequences: Topological Construction, Spectral Distribution Results, and Star-Algebra Structure. <i>Springer INdAM Series</i> , 2019 , 59-79	0.4	2
164	Symbol-Based Analysis of Finite Element and Isogeometric B-Spline Discretizations of Eigenvalue Problems: Exposition and Review. <i>Archives of Computational Methods in Engineering</i> , 2019 , 26, 1639-1690	7.8	14
163	A merged tuning of binary and ternary Loop's subdivision. <i>Computer Aided Geometric Design</i> , 2019 , 69, 27-44	1.2	2
162	Isogeometric analysis for 2D and 3D curl-div problems: Spectral symbols and fast iterative solvers. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019 , 344, 970-997	5.7	4
161	Eigenvalues and eigenvectors of banded Toeplitz matrices and the related symbols. <i>Numerical Linear Algebra With Applications</i> , 2018 , 25, e2137	1.6	10
160	Staggered discontinuous Galerkin methods for the incompressible Navier-Stokes equations: Spectral analysis and computational results. <i>Numerical Linear Algebra With Applications</i> , 2018 , 25, e2151	1.6	9
159	Are the eigenvalues of preconditioned banded symmetric Toeplitz matrices known in almost closed form?. <i>Numerical Algorithms</i> , 2018 , 78, 867-893	2.1	7
158	Generalized newton multi-step iterative methods GMN _{p,m} for solving system of nonlinear equations. <i>International Journal of Computer Mathematics</i> , 2018 , 95, 881-897	1.2	3
157	Uniform Convergence of V-cycle Multigrid Algorithms for Two-Dimensional Fractional Feynman-Kac Equation. <i>Journal of Scientific Computing</i> , 2018 , 74, 1034-1059	2.3	5
156	Are the Eigenvalues of Banded Symmetric Toeplitz Matrices Known in Almost Closed Form?. <i>Experimental Mathematics</i> , 2018 , 27, 478-487	0.5	16
155	Spectral Distribution Results Beyond the Algebra Generated by Variable-Coefficient Toeplitz Sequences: The GLT Approach. <i>Journal of Fourier Analysis and Applications</i> , 2018 , 24, 506-524	1.1	
154	Are the eigenvalues of the B-spline isogeometric analysis approximation of $\Delta = \nabla^2$ known in almost closed form?. <i>Numerical Linear Algebra With Applications</i> , 2018 , 25, e2198	1.6	9

153	Generalized Locally Toeplitz Sequences: A Spectral Analysis Tool for Discretized Differential Equations. <i>Lecture Notes in Mathematics</i> , 2018 , 161-236	0.4	3
152	Spectral analysis and spectral symbol for the 2D curl-curl (stabilized) operator with applications to the related iterative solutions. <i>Mathematics of Computation</i> , 2018 , 88, 1155-1188	1.6	9
151	Block Generalized Locally Toeplitz Sequences: From the Theory to the Applications. <i>Axioms</i> , 2018 , 7, 49	1.6	16
150	Generalized Locally Toeplitz Sequences: Theory and Applications 2018 ,		17
149	Spectral Analysis and Multigrid Methods for Finite Volume Approximations of Space-Fractional Diffusion Equations. <i>SIAM Journal of Scientific Computing</i> , 2018 , 40, A4007-A4039	2.6	17
148	Splines and PDEs: From Approximation Theory to Numerical Linear Algebra. <i>Lecture Notes in Mathematics</i> , 2018 ,	0.4	2
147	Spectral analysis of finite-dimensional approximations of 1d waves in non-uniform grids. <i>Calcolo</i> , 2018 , 55, 1	1.5	2
146	Ground surface temperature reconstruction for the last 500 years obtained from permafrost temperatures observed in the SHARE STELVIO Borehole, Italian Alps. <i>Climate of the Past</i> , 2018 , 14, 709-724	2.9	12
145	Space-Time FE-DG Discretization of the Anisotropic Diffusion Equation in Any Dimension: The Spectral Symbol. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2018 , 39, 1383-1420	1.5	7
144	Exact formulae and matrix-less eigensolvers for block banded symmetric Toeplitz matrices. <i>BIT Numerical Mathematics</i> , 2018 , 58, 937-968	1.7	3
143	Symbol-Based Multigrid Methods for Galerkin B-Spline Isogeometric Analysis. <i>SIAM Journal on Numerical Analysis</i> , 2017 , 55, 31-62	2.4	47
142	The Theory of Generalized Locally Toeplitz Sequences: a Review, an Extension, and a Few Representative Applications. <i>Operator Theory: Advances and Applications</i> , 2017 , 353-394	0.4	3
141	Generalized Locally Toeplitz Sequences: Theory and Applications 2017 ,		46
140	Function-based block multigrid strategy for a two-dimensional linear elasticity-type problem. <i>Computers and Mathematics With Applications</i> , 2017 , 74, 1015-1028	2.7	4
139	Exploration of Toeplitz-like matrices with unbounded symbols is not a purely academic journey. <i>Sbornik Mathematics</i> , 2017 , 208, 1602-1627	1	8
138	Optimizing a multigrid Runge-Kutta smoother for variable-coefficient convection-diffusion equations. <i>Linear Algebra and Its Applications</i> , 2017 , 533, 507-535	0.9	8
137	Higher order derivative-free iterative methods with and without memory for systems of nonlinear equations. <i>Applied Mathematics and Computation</i> , 2017 , 314, 199-211	2.7	12
136	Lusin theorem, GLT sequences and matrix computations: An application to the spectral analysis of PDE discretization matrices. <i>Journal of Mathematical Analysis and Applications</i> , 2017 , 446, 365-382	1.1	13

135	Optimal preconditioning for image deblurring with Anti-Reflective boundary conditions. <i>Linear Algebra and Its Applications</i> , 2016 , 502, 159-185	0.9	5
134	Multigrid methods for cubic spline solution of two point (and 2D) boundary value problems. <i>Applied Numerical Mathematics</i> , 2016 , 104, 15-29	2.5	7
133	Spectral analysis and spectral symbol of matrices in isogeometric Galerkin methods. <i>Mathematics of Computation</i> , 2016 , 86, 1343-1373	1.6	19
132	Spectral analysis of coupled PDEs and of their Schur complements via Generalized Locally Toeplitz sequences in 2D. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016 , 309, 74-105	5.7	14
131	Eigenvalue-eigenvector structure of Schoenmakers-Coffey matrices via Toeplitz technology and applications. <i>Linear Algebra and Its Applications</i> , 2016 , 491, 138-160	0.9	5
130	Solving systems of nonlinear equations when the nonlinearity is expensive. <i>Computers and Mathematics With Applications</i> , 2016 , 71, 1464-1478	2.7	12
129	Spectral analysis and structure preserving preconditioners for fractional diffusion equations. <i>Journal of Computational Physics</i> , 2016 , 307, 262-279	4.1	81
128	The theory of locally Toeplitz sequences: a review, an extension, and a few representative applications. <i>Boletin De La Sociedad Matematica Mexicana</i> , 2016 , 22, 529-565	0.6	6
127	Essential spectral equivalence via multiple step preconditioning and applications to ill conditioned Toeplitz matrices. <i>Linear Algebra and Its Applications</i> , 2016 , 491, 276-291	0.9	1
126	Constructing Frozen Jacobian Iterative Methods for Solving Systems of Nonlinear Equations, Associated with ODEs and PDEs Using the Homotopy Method. <i>Algorithms</i> , 2016 , 9, 18	1.8	4
125	A Family of Iterative Methods for Solving Systems of Nonlinear Equations Having Unknown Multiplicity. <i>Algorithms</i> , 2016 , 9, 5	1.8	1
124	Preconditioned HSS method for large multilevel block Toeplitz linear systems via the notion of matrix-valued symbol. <i>Numerical Linear Algebra With Applications</i> , 2016 , 23, 83-119	1.6	4
123	Quasi-optimal preconditioners for finite element approximations of diffusion dominated convection-diffusion equations on (nearly) equilateral triangle meshes. <i>Numerical Linear Algebra With Applications</i> , 2015 , 22, 123-144	1.6	2
122	Robust and optimal multi-iterative techniques for IgA collocation linear systems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015 , 284, 1120-1146	5.7	36
121	Iterated fractional Tikhonov regularization. <i>Inverse Problems</i> , 2015 , 31, 055005	2.3	22
120	Accelerated multigrid for graph Laplacian operators. <i>Applied Mathematics and Computation</i> , 2015 , 270, 193-215	2.7	3
119	Higher order multi-step iterative method for computing the numerical solution of systems of nonlinear equations: Application to nonlinear PDEs and ODEs. <i>Applied Mathematics and Computation</i> , 2015 , 269, 972-987	2.7	2
118	Robust and optimal multi-iterative techniques for IgA Galerkin linear systems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015 , 284, 230-264	5.7	50

117	An efficient multi-step iterative method for computing the numerical solution of systems of nonlinear equations associated with ODEs. <i>Applied Mathematics and Computation</i> , 2015 , 250, 249-259	2.7	15
116	Computational evaluation of multi-iterative approaches for solving graph-structured large linear systems. <i>Calcolo</i> , 2015 , 52, 425-444	1.5	1
115	Tools for Determining the Asymptotic Spectral Distribution of non-Hermitian Perturbations of Hermitian Matrix-Sequences and Applications. <i>Integral Equations and Operator Theory</i> , 2015 , 81, 213-225	0.5	6
114	Spectral analysis and spectral symbol of matrices in isogeometric collocation methods. <i>Mathematics of Computation</i> , 2015 , 85, 1639-1680	1.6	22
113	Iterated fractional Tikhonov regularization. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2015 , 15, 581-582	0.2	2
112	Spectral Analysis and Spectral Symbol of d -variate \mathbb{Q}_p Lagrangian FEM Stiffness Matrices. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2015 , 36, 1100-1128	1.5	26
111	Two-grid optimality for Galerkin linear systems based on B-splines. <i>Computing and Visualization in Science</i> , 2015 , 17, 119-133	1	2
110	A general tool for determining the asymptotic spectral distribution of Hermitian matrix-sequences. <i>Operators and Matrices</i> , 2015 , 549-561	2.3	6
109	Schur Complement Matrix and Its (Elementwise) Approximation: A Spectral Analysis Based on GLT Sequences. <i>Lecture Notes in Computer Science</i> , 2015 , 419-426	0.9	
108	Spectral behavior of preconditioned non-Hermitian multilevel block Toeplitz matrices with matrix-valued symbol. <i>Applied Mathematics and Computation</i> , 2014 , 245, 158-173	2.7	8
107	Two-Grid Methods for Hermitian positive definite linear systems connected with an order relation. <i>Calcolo</i> , 2014 , 51, 261-285	1.5	4
106	A note on the eigenvalues of (g) -circulants (and of (g) -Toeplitz, (g) -Hankel matrices). <i>Calcolo</i> , 2014 , 51, 639-659	1.5	1
105	Perturbation of operators and approximation of spectrum. <i>Proceedings of the Indian Academy of Sciences: Mathematical Sciences</i> , 2014 , 124, 205-224	0.4	4
104	Singular-value (and eigenvalue) distribution and Krylov preconditioning of sequences of sampling matrices approximating integral operators. <i>Numerical Linear Algebra With Applications</i> , 2014 , 21, 722-743	1.6	9
103	Symbol approach in a signal-restoration problem involving block Toeplitz matrices. <i>Journal of Computational and Applied Mathematics</i> , 2014 , 272, 399-416	2.4	12
102	A fast alternating minimization algorithm for total variation deblurring without boundary artifacts. <i>Journal of Mathematical Analysis and Applications</i> , 2014 , 415, 373-393	1.1	30
101	On the spectrum of stiffness matrices arising from isogeometric analysis. <i>Numerische Mathematik</i> , 2014 , 127, 751-799	2.2	40
100	AMG preconditioning for nonlinear degenerate parabolic equations on nonuniform grids with application to monument degradation. <i>Applied Numerical Mathematics</i> , 2013 , 68, 1-18	2.5	4

99	Preconditioners and Korovkin-type theorems for infinite-dimensional bounded linear operators via completely positive maps. <i>Studia Mathematica</i> , 2013 , 218, 95-118	1.9	4
98	Spectral analysis and preconditioning techniques for radial basis function collocation matrices. <i>Numerical Linear Algebra With Applications</i> , 2012 , 19, 31-52	1.6	6
97	Nonnegative inverse eigenvalue problems with partial eigendata. <i>Numerische Mathematik</i> , 2012 , 120, 387-431	2.2	4
96	Multigrid methods for Toeplitz linear systems with different size reduction. <i>BIT Numerical Mathematics</i> , 2012 , 52, 305-327	1.7	10
95	A note on the (regularizing) preconditioning of . <i>Journal of Computational and Applied Mathematics</i> , 2012 , 236, 2090-2111	2.4	5
94	Canonical Eigenvalue Distribution of Multilevel Block Toeplitz Sequences with Non-Hermitian Symbols 2012 , 269-291		
93	Fast Preconditioners for Total Variation Deblurring with Antireflective Boundary Conditions. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2011 , 32, 785-805	1.5	6
92	Analysis of Multigrid Preconditioning for Implicit PDE Solvers for Degenerate Parabolic Equations. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2011 , 32, 1125-1148	1.5	5
91	On an augmented Lagrangian-based preconditioning of Oseen type problems. <i>BIT Numerical Mathematics</i> , 2011 , 51, 865-888	1.7	14
90	Approximating classes of sequences: The Hermitian case. <i>Linear Algebra and Its Applications</i> , 2011 , 434, 1163-1170	0.9	1
89	The Anti-Reflective Transform and Regularization by Filtering. <i>Lecture Notes in Electrical Engineering</i> , 2011 , 1-21	0.2	4
88	Antireflective Boundary Conditions for Deblurring Problems. <i>Journal of Electrical and Computer Engineering</i> , 2010 , 2010, 1-18	1.9	6
87	Spectral Features and Asymptotic Properties for g-Circulants and g-Toeplitz Sequences. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2010 , 31, 1663-1687	1.5	26
86	A note on algebraic multigrid methods for the discrete weighted Laplacian. <i>Computers and Mathematics With Applications</i> , 2010 , 60, 1290-1298	2.7	2
85	Finiteness property of pairs of . <i>Linear Algebra and Its Applications</i> , 2010 , 432, 796-816	0.9	25
84	The eigenvalue distribution of products of Toeplitz matrices [Clustering and attraction. <i>Linear Algebra and Its Applications</i> , 2010 , 432, 2658-2678	0.9	8
83	Google PageRanking problem: The model and the analysis. <i>Journal of Computational and Applied Mathematics</i> , 2010 , 234, 3140-3169	2.4	13
82	Spectral Analysis for Radial Basis Function Collocation Matrices 2010 , 237-244		

81	Tools for the eigenvalue distribution in a non-Hermitian setting. <i>Linear Algebra and Its Applications</i> , 2009 , 430, 423-437	0.9	5
80	The anti-reflective algebra: structural and computational analysis with application to image deblurring and denoising. <i>Calcolo</i> , 2008 , 45, 149-175	1.5	3
79	Superoptimal approximation for unbounded symbols. <i>Linear Algebra and Its Applications</i> , 2008 , 428, 564-585	0.9	6
78	The conditioning of FD matrix sequences coming from semi-elliptic differential equations. <i>Linear Algebra and Its Applications</i> , 2008 , 428, 600-624	0.9	2
77	Spectral analysis of the anti-reflective algebra. <i>Linear Algebra and Its Applications</i> , 2008 , 428, 657-675	0.9	16
76	Stability of the notion of approximating class of sequences and applications. <i>Journal of Computational and Applied Mathematics</i> , 2008 , 219, 518-536	2.4	4
75	Boundary conditions and multiple-image re-blurring: The LBT case. <i>Journal of Computational and Applied Mathematics</i> , 2007 , 198, 426-442	2.4	2
74	The spectral approximation of multiplication operators via asymptotic (structured) linear algebra. <i>Linear Algebra and Its Applications</i> , 2007 , 424, 154-176	0.9	3
73	The asymptotic properties of the spectrum of nonsymmetrically perturbed Jacobi matrix sequences. <i>Journal of Approximation Theory</i> , 2007 , 144, 84-102	0.9	44
72	Simplification of a result on banded Toeplitz matrices and BVM methods. <i>Numerische Mathematik</i> , 2007 , 107, 175-179	2.2	
71	Spectral Analysis of a Preconditioned Iterative Method for the Convection-Diffusion Equation. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2007 , 29, 260-278	1.5	14
70	On the Asymptotic Spectrum of Finite Element Matrix Sequences. <i>SIAM Journal on Numerical Analysis</i> , 2007 , 45, 746-769	2.4	32
69	Can One Hear the Composition of a Drum?. <i>Mediterranean Journal of Mathematics</i> , 2006 , 3, 227-249	0.9	7
68	Block band Toeplitz preconditioners derived from generating function approximations: analysis and applications. <i>Numerische Mathematik</i> , 2006 , 104, 339-376	2.2	7
67	Improved image deblurring with anti-reflective boundary conditions and re-blurring. <i>Inverse Problems</i> , 2006 , 22, 2035-2053	2.3	59
66	A General Setting for the Parametric Google Matrix. <i>Internet Mathematics</i> , 2006 , 3, 385-411	0	13
65	On the Regularizing Power of Multigrid-type Algorithms. <i>SIAM Journal of Scientific Computing</i> , 2006 , 27, 2053-2076	2.6	17
64	Two-level Toeplitz preconditioning: approximation results for matrices and functions. <i>SIAM Journal of Scientific Computing</i> , 2006 , 28, 439-458	2.6	6

63	The GLT class as a generalized Fourier analysis and applications. <i>Linear Algebra and Its Applications</i> , 2006 , 419, 180-233	0.9	66
62	Superoptimal Preconditioned Conjugate Gradient Iteration for Image Deblurring. <i>SIAM Journal of Scientific Computing</i> , 2005 , 26, 1012-1035	2.6	18
61	Jordan Canonical Form of the Google Matrix: A Potential Contribution to the PageRank Computation. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2005 , 27, 305-312	1.5	51
60	How to Deduce a Proper Eigenvalue Cluster from a Proper Singular Value Cluster in the Nonnormal Case. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2005 , 27, 82-86	1.5	12
59	Extrapolation methods for PageRank computations. <i>Comptes Rendus Mathematique</i> , 2005 , 340, 393-397	0.4	22
58	Preconditioning strategies for non-Hermitian Toeplitz linear systems. <i>Numerical Linear Algebra With Applications</i> , 2005 , 12, 211-220	1.6	15
57	Two-grid methods for banded linear systems from DCT III algebra. <i>Numerical Linear Algebra With Applications</i> , 2005 , 12, 241-249	1.6	6
56	Numerical behaviour of multigrid methods for symmetric Sinc-Galerkin systems. <i>Numerical Linear Algebra With Applications</i> , 2005 , 12, 261-269	1.6	6
55	Preconditioned HSS methods for the solution of non-Hermitian positive definite linear systems and applications to the discrete convection-diffusion equation. <i>Numerische Mathematik</i> , 2005 , 99, 441-484	2.2	64
54	Asymptotic behavior of the condition number of two-level Toeplitz matrix sequences. <i>Linear Algebra and Its Applications</i> , 2005 , 395, 121-140	0.9	2
53	Anti-reflective boundary conditions and re-blurring. <i>Inverse Problems</i> , 2005 , 21, 169-182	2.3	31
52	Fast and numerically stable algorithms for discrete Hartley transforms and applications to preconditioning. <i>Communications in Information and Systems</i> , 2005 , 5, 21-68	0.8	7
51	Multigrid Methods for Multilevel Circulant Matrices. <i>SIAM Journal of Scientific Computing</i> , 2004 , 26, 55-85	1.6	29
50	A Note on Antireflective Boundary Conditions and Fast Deblurring Models. <i>SIAM Journal of Scientific Computing</i> , 2004 , 25, 1307-1325	2.6	90
49	Preconditioning Strategies for Hermitian Indefinite Toeplitz Linear Systems. <i>SIAM Journal of Scientific Computing</i> , 2004 , 25, 1633-1654	2.6	7
48	V-cycle Optimal Convergence for Certain (Multilevel) Structured Linear Systems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2004 , 26, 186-214	1.5	60
47	The Spectra of Preconditioned Toeplitz Matrix Sequences Can Have Gaps. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2004 , 25, 930-946	1.5	
46	Anti-reflective boundary conditions and fast 2D deblurring models 2003 , 5205, 380		6

45	How to prove that a preconditioner cannot be superlinear. <i>Mathematics of Computation</i> , 2003 , 72, 1305-1317	1.5	19
44	Practical Band Toeplitz Preconditioning and Boundary Layer Effects. <i>Numerical Algorithms</i> , 2003 , 34, 427-440	2.1	4
43	Generalized locally Toeplitz sequences: spectral analysis and applications to discretized partial differential equations. <i>Linear Algebra and Its Applications</i> , 2003 , 366, 371-402	0.9	95
42	Analysis of preconditioning strategies for collocation linear systems. <i>Linear Algebra and Its Applications</i> , 2003 , 369, 41-75	0.9	16
41	Fat Diagonals and Fourier Analysis. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2003 , 24, 1060-1070	1.5	3
40	Superlinear Preconditioners for Finite Differences Linear Systems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2003 , 25, 152-164	1.5	6
39	From Toeplitz matrix sequences to zero distribution of orthogonal polynomials. <i>Contemporary Mathematics</i> , 2003 , 329-339	1.6	10
38	Convergence analysis of two-grid methods for elliptic Toeplitz and PDEs Matrix-sequences. <i>Numerische Mathematik</i> , 2002 , 92, 433-465	2.2	55
37	Matrix algebra preconditioners for multilevel Toeplitz matrices are not superlinear. <i>Linear Algebra and Its Applications</i> , 2002 , 343-344, 303-319	0.9	23
36	Komleva-type expansions and asymptotics for linear operators. <i>Computers and Mathematics With Applications</i> , 2002 , 43, 799-820	2.7	1
35	A Note on the Superoptimal Matrix Algebra Operators. <i>Linear and Multilinear Algebra</i> , 2002 , 50, 343-372	0.7	14
34	On unitarily invariant norms of matrix-valued linear positive operators. <i>Journal of Inequalities and Applications</i> , 2002 , 7, 309-330	2.1	26
33	More Inequalities and Asymptotics for Matrix Valued Linear Positive Operators: the Noncommutative Case 2002 , 293-315		
32	Distribution results on the algebra generated by Toeplitz sequences: a finite-dimensional approach. <i>Linear Algebra and Its Applications</i> , 2001 , 328, 121-130	0.9	42
31	Spectral behavior of matrix sequences and discretized boundary value problems. <i>Linear Algebra and Its Applications</i> , 2001 , 337, 37-78	0.9	28
30	Asymptotic Zero Distribution of Orthogonal Polynomials with Discontinuously Varying Recurrence Coefficients. <i>Journal of Approximation Theory</i> , 2001 , 113, 142-155	0.9	24
29	Finite Element Matrix Sequences: the Case of Rectangular Domains. <i>Numerical Algorithms</i> , 2001 , 28, 309-327	2.7	6
28	Spectral Analysis of (Sequences of) Graph Matrices. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2001 , 23, 339-348	1.5	6

27	Korovkin tests, approximation, and ergodic theory. <i>Mathematics of Computation</i> , 2000 , 69, 1533-1559	1.6	9
26	Constructive techniques for approximating collocation linear systems. <i>Numerical Algorithms</i> , 2000 , 25, 323-339	2.1	
25	How Bad Can Positive Definite Toeplitz Matrices Be?. <i>Numerical Functional Analysis and Optimization</i> , 2000 , 21, 255-261	1	6
24	Locally X Matrices, Spectral Distributions, Preconditioning, and Applications. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2000 , 21, 1354-1388	1.5	7
23	Optimal multilevel matrix algebra operators. <i>Linear and Multilinear Algebra</i> , 2000 , 48, 35-66	0.7	14
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