

Stefano Serra Capizzano

List of Publications by Citations

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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	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
187	A Note on Antireflective Boundary Conditions and Fast Deblurring Models. <i>SIAM Journal of Scientific Computing</i> , 2004 , 25, 1307-1325	2.6	90
186	Spectral analysis and structure preserving preconditioners for fractional diffusion equations. <i>Journal of Computational Physics</i> , 2016 , 307, 262-279	4.1	81
185	Preconditioning strategies for asymptotically ill-conditioned block Toeplitz systems. <i>BIT Numerical Mathematics</i> , 1994 , 34, 579-594	1.7	75
184	Multigrid methods for toeplitz matrices. <i>Calcolo</i> , 1991 , 28, 283-305	1.5	75
183	C. G. preconditioning for Toeplitz matrices. <i>Computers and Mathematics With Applications</i> , 1993 , 25, 35-45.7		70
182	The GLT class as a generalized Fourier analysis and applications. <i>Linear Algebra and Its Applications</i> , 2006 , 419, 180-233	0.9	66
181	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
180	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
179	Improved image deblurring with anti-reflective boundary conditions and re-blurring. <i>Inverse Problems</i> , 2006 , 22, 2035-2053	2.3	59
178	Convergence analysis of two-grid methods for elliptic Toeplitz and PDEs Matrix-sequences. <i>Numerische Mathematik</i> , 2002 , 92, 433-465	2.2	55
177	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
176	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
175	Symbol-Based Multigrid Methods for Galerkin B-Spline Isogeometric Analysis. <i>SIAM Journal on Numerical Analysis</i> , 2017 , 55, 31-62	2.4	47
174	Generalized Locally Toeplitz Sequences: Theory and Applications 2017 ,		46
173	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
172	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

171	On the spectrum of stiffness matrices arising from isogeometric analysis. <i>Numerische Mathematik</i> , 2014 , 127, 751-799	2.2	40
170	Spectral and structural analysis of high precision finite difference matrices for elliptic operators. <i>Linear Algebra and Its Applications</i> , 1999 , 293, 85-131	0.9	38
169	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
168	Multi-iterative methods. <i>Computers and Mathematics With Applications</i> , 1993 , 26, 65-87	2.7	36
167	On the Asymptotic Spectrum of Finite Element Matrix Sequences. <i>SIAM Journal on Numerical Analysis</i> , 2007 , 45, 746-769	2.4	32
166	Extreme singular values and eigenvalues of non-Hermitian block Toeplitz matrices. <i>Journal of Computational and Applied Mathematics</i> , 1999 , 108, 113-130	2.4	32
165	Anti-reflective boundary conditions and re-blurring. <i>Inverse Problems</i> , 2005 , 21, 169-182	2.3	31
164	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
163	A unifying approach to abstract matrix algebra preconditioning. <i>Numerische Mathematik</i> , 1999 , 82, 57-90.	2.2	30
162	An ergodic theorem for classes of preconditioned matrices. <i>Linear Algebra and Its Applications</i> , 1998 , 282, 161-183	0.9	29
161	Toeplitz Preconditioners Constructed from Linear Approximation Processes. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1998 , 20, 446-465	1.5	29
160	Multigrid Methods for Multilevel Circulant Matrices. <i>SIAM Journal of Scientific Computing</i> , 2004 , 26, 55-85.	1.6	29
159	Spectral behavior of matrix sequences and discretized boundary value problems. <i>Linear Algebra and Its Applications</i> , 2001 , 337, 37-78	0.9	28
158	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
157	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
156	On unitarily invariant norms of matrix-valued linear positive operators. <i>Journal of Inequalities and Applications</i> , 2002 , 7, 309-330	2.1	26
155	Finiteness property of pairs of . <i>Linear Algebra and Its Applications</i> , 2010 , 432, 796-816	0.9	25
154	Asymptotic Zero Distribution of Orthogonal Polynomials with Discontinuously Varying Recurrence Coefficients. <i>Journal of Approximation Theory</i> , 2001 , 113, 142-155	0.9	24

153	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
152	Iterated fractional Tikhonov regularization. <i>Inverse Problems</i> , 2015 , 31, 055005	2.3	22
151	Spectral analysis and spectral symbol of matrices in isogeometric collocation methods. <i>Mathematics of Computation</i> , 2015 , 85, 1639-1680	1.6	22
150	Extrapolation methods for PageRank computations. <i>Comptes Rendus Mathematique</i> , 2005 , 340, 393-397	0.4	22
149	Spectral analysis and spectral symbol of matrices in isogeometric Galerkin methods. <i>Mathematics of Computation</i> , 2016 , 86, 1343-1373	1.6	19
148	How to prove that a preconditioner cannot be superlinear. <i>Mathematics of Computation</i> , 2003 , 72, 1305-1317	1.6	19
147	New PCG based algorithms for the solution of Hermitian Toeplitz systems. <i>Calcolo</i> , 1995 , 32, 153-176	1.5	19
146	Superoptimal Preconditioned Conjugate Gradient Iteration for Image Deblurring. <i>SIAM Journal of Scientific Computing</i> , 2005 , 26, 1012-1035	2.6	18
145	On the Regularizing Power of Multigrid-type Algorithms. <i>SIAM Journal of Scientific Computing</i> , 2006 , 27, 2053-2076	2.6	17
144	Generalized Locally Toeplitz Sequences: Theory and Applications 2018 ,		17
143	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
142	Are the Eigenvalues of Banded Symmetric Toeplitz Matrices Known in Almost Closed Form?. <i>Experimental Mathematics</i> , 2018 , 27, 478-487	0.5	16
141	Spectral analysis of the anti-reflective algebra. <i>Linear Algebra and Its Applications</i> , 2008 , 428, 657-675	0.9	16
140	Analysis of preconditioning strategies for collocation linear systems. <i>Linear Algebra and Its Applications</i> , 2003 , 369, 41-75	0.9	16
139	Block Generalized Locally Toeplitz Sequences: From the Theory to the Applications. <i>Axioms</i> , 2018 , 7, 49	1.6	16
138	Spectral and convergence analysis of the Discrete ALIF method. <i>Linear Algebra and Its Applications</i> , 2019 , 580, 62-95	0.9	15
137	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
136	Preconditioning strategies for non-Hermitian Toeplitz linear systems. <i>Numerical Linear Algebra With Applications</i> , 2005 , 12, 211-220	1.6	15

135	A Korovkin-Based Approximation of Multilevel Toeplitz Matrices (With Rectangular Unstructured Blocks) via Multilevel Trigonometric Matrix Spaces. <i>SIAM Journal on Numerical Analysis</i> , 1999 , 36, 1831-1857	3.4	15
134	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
133	On an augmented Lagrangian-based preconditioning of Oseen type problems. <i>BIT Numerical Mathematics</i> , 2011 , 51, 865-888	1.7	14
132	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
131	A Note on the Superoptimal Matrix Algebra Operators. <i>Linear and Multilinear Algebra</i> , 2002 , 50, 343-372	0.7	14
130	Optimal multilevel matrix algebra operators. <i>Linear and Multilinear Algebra</i> , 2000 , 48, 35-66	0.7	14
129	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
128	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
127	Google PageRanking problem: The model and the analysis. <i>Journal of Computational and Applied Mathematics</i> , 2010 , 234, 3140-3169	2.4	13
126	A General Setting for the Parametric Google Matrix. <i>Internet Mathematics</i> , 2006 , 3, 385-411	0	13
125	Solving systems of nonlinear equations when the nonlinearity is expensive. <i>Computers and Mathematics With Applications</i> , 2016 , 71, 1464-1478	2.7	12
124	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
123	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
122	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
121	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	3.9	12
120	Korovkin theorems and linear positive Gram matrix algebra approximations of Toeplitz matrices. <i>Linear Algebra and Its Applications</i> , 1998 , 284, 307-334	0.9	11
119	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
118	Eigenvalues and eigenvectors of banded Toeplitz matrices and the related symbols. <i>Numerical Linear Algebra With Applications</i> , 2018 , 25, e2137	1.6	10

117	Multigrid methods for Toeplitz linear systems with different size reduction. <i>BIT Numerical Mathematics</i> , 2012 , 52, 305-327	1.7	10
116	From Toeplitz matrix sequences to zero distribution of orthogonal polynomials. <i>Contemporary Mathematics</i> , 2003 , 329-339	1.6	10
115	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
114	Are the eigenvalues of the B-spline isogeometric analysis approximation of $\Pi = \Pi$ known in almost closed form?. <i>Numerical Linear Algebra With Applications</i> , 2018 , 25, e2198	1.6	9
113	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
112	Korovkin tests, approximation, and ergodic theory. <i>Mathematics of Computation</i> , 2000 , 69, 1533-1559	1.6	9
111	An iterative method for the computation of the solutions of nonlinear equations. <i>Calcolo</i> , 1999 , 36, 17-34	1.5	9
110	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
109	Exploration of Toeplitz-like matrices with unbounded symbols is not a purely academic journey. <i>Sbornik Mathematics</i> , 2017 , 208, 1602-1627	1	8
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	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
106	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
105	Statistical Convergence via q-Calculus and a Korovkin-Type Approximation Theorem. <i>Axioms</i> , 2022 , 11, 70	1.6	8
104	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
103	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
102	Can One Hear the Composition of a Drum?. <i>Mediterranean Journal of Mathematics</i> , 2006 , 3, 227-249	0.9	7
101	Block band Toeplitz preconditioners derived from generating function approximations: analysis and applications. <i>Numerische Mathematik</i> , 2006 , 104, 339-376	2.2	7
100	Preconditioning Strategies for Hermitian Indefinite Toeplitz Linear Systems. <i>SIAM Journal of Scientific Computing</i> , 2004 , 25, 1633-1654	2.6	7

99	Locally X Matrices, Spectral Distributions, Preconditioning, and Applications. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2000 , 21, 1354-1388	1.5	7
98	A note on the asymptotic spectra of finite difference discretizations of second order elliptic partial differential equations. <i>Asian Journal of Mathematics</i> , 2000 , 4, 499-514	0.5	7
97	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
96	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
95	A note on the spectral distribution of symmetrized Toeplitz sequences. <i>Linear Algebra and Its Applications</i> , 2019 , 579, 32-50	0.9	6
94	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
93	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
92	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
91	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
90	Antireflective Boundary Conditions for Deblurring Problems. <i>Journal of Electrical and Computer Engineering</i> , 2010 , 2010, 1-18	1.9	6
89	Superoptimal approximation for unbounded symbols. <i>Linear Algebra and Its Applications</i> , 2008 , 428, 564-585	0.5	6
88	Two-level Toeplitz preconditioning: approximation results for matrices and functions. <i>SIAM Journal of Scientific Computing</i> , 2006 , 28, 439-458	2.6	6
87	Anti-reflective boundary conditions and fast 2D deblurring models 2003 , 5205, 380		6
86	Superlinear Preconditioners for Finite Differences Linear Systems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2003 , 25, 152-164	1.5	6
85	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
84	Numerical behaviour of multigrid methods for symmetric Sinc-Galerkin systems. <i>Numerical Linear Algebra With Applications</i> , 2005 , 12, 261-269	1.6	6
83	Finite Element Matrix Sequences: the Case of Rectangular Domains. <i>Numerical Algorithms</i> , 2001 , 28, 309-327	0.2	6
82	How Bad Can Positive Definite Toeplitz Matrices Be?. <i>Numerical Functional Analysis and Optimization</i> , 2000 , 21, 255-261	1	6

81	Spectral Analysis of (Sequences of) Graph Matrices. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2001 , 23, 339-348	1.5	6
80	A general tool for determining the asymptotic spectral distribution of Hermitian matrix-sequences. <i>Operators and Matrices</i> , 2015 , 549-561	2.3	6
79	Optimal preconditioning for image deblurring with Anti-Reflective boundary conditions. <i>Linear Algebra and Its Applications</i> , 2016 , 502, 159-185	0.9	5
78	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
77	Uniform Convergence of V-cycle Multigrid Algorithms for Two-Dimensional Fractional Feynman-Hellmann Equation. <i>Journal of Scientific Computing</i> , 2018 , 74, 1034-1059	2.3	5
76	Eigenvalue-eigenvector structure of Schoenmakers-Toffey matrices via Toeplitz technology and applications. <i>Linear Algebra and Its Applications</i> , 2016 , 491, 138-160	0.9	5
75	A note on the (regularizing) preconditioning of A^{-1} . <i>Journal of Computational and Applied Mathematics</i> , 2012 , 236, 2090-2111	2.4	5
74	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
73	Tools for the eigenvalue distribution in a non-Hermitian setting. <i>Linear Algebra and Its Applications</i> , 2009 , 430, 423-437	0.9	5
72	Block generalized locally Toeplitz sequences: theory and applications in the multidimensional case. <i>Electronic Transactions on Numerical Analysis</i> , 2013 , 53, 113-216		5
71	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
70	Two-Grid Methods for Hermitian positive definite linear systems connected with an order relation. <i>Calcolo</i> , 2014 , 51, 261-285	1.5	4
69	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
68	Nonnegative inverse eigenvalue problems with partial eigendata. <i>Numerische Mathematik</i> , 2012 , 120, 387-431	2.2	4
67	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
66	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
65	Practical Band Toeplitz Preconditioning and Boundary Layer Effects. <i>Numerical Algorithms</i> , 2003 , 34, 427-440	2.1	4
64	Block generalized locally Toeplitz sequences: theory and applications in the unidimensional case. <i>Electronic Transactions on Numerical Analysis</i> , 2013 , 53, 28-112		4

63	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
62	The Anti-Reflective Transform and Regularization by Filtering. <i>Lecture Notes in Electrical Engineering</i> , 2011 , 1-21	0.2	4
61	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
60	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
59	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
58	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</div>	5.7	4
57	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
56	Accelerated multigrid for graph Laplacian operators. <i>Applied Mathematics and Computation</i> , 2015 , 270, 193-215	2.7	3
55	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
54	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
53	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
52	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
51	Fat Diagonals and Fourier Analysis. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2003 , 24, 1060-1070	1.5	3
50	Multigrid preconditioners for symmetric Sinc systems. <i>ANZIAM Journal</i> , 45 , 857		3
49	Generalized Locally Toeplitz Sequences: A Spectral Analysis Tool for Discretized Differential Equations. <i>Lecture Notes in Mathematics</i> , 2018 , 161-236	0.4	3
48	Exact formulae and matrix-less eigensolvers for block banded symmetric Toeplitz matrices. <i>BIT Numerical Mathematics</i> , 2018 , 58, 937-968	1.7	3
47	Quasi-optimal preconditioners for finite element approximations of diffusion dominated convection <div> diffusion equations on (nearly) equilateral triangle meshes. <i>Numerical Linear Algebra With Applications</i>, 2015, 22, 123-144</div>	1.6	2
46	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

45	Multigrid for Q_k Finite Element Matrices Using a (Block) Toeplitz Symbol Approach. <i>Mathematics</i> , 2020 , 8, 5	2.3	2
44	Iterated fractional Tikhonov regularization. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2015 , 15, 581-582	0.2	2
43	Two-grid optimality for Galerkin linear systems based on B-splines. <i>Computing and Visualization in Science</i> , 2015 , 17, 119-133	1	2
42	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
41	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
40	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
39	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
38	Approximation of multilevel Toeplitz matrices via multilevel trigonometric matrix spaces and applications to preconditioning. <i>Calcolo</i> , 1999 , 36, 187-213	1.5	2
37	Block Locally Toeplitz Sequences: Construction and Properties. <i>Springer INdAM Series</i> , 2019 , 25-58	0.4	2
36	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
35	NURBS in isogeometric discretization methods: A spectral analysis. <i>Numerical Linear Algebra With Applications</i> , 2020 , 27, e2318	1.6	2
34	Multilevel symmetrized Toeplitz structures and spectral distribution results for the related matrix sequences. <i>Electronic Journal of Linear Algebra</i> , 37 , 370-386	1.6	2
33	A merged tuning of binary and ternary Loop's subdivision. <i>Computer Aided Geometric Design</i> , 2019 , 69, 27-44	1.2	2
32	Splines and PDEs: From Approximation Theory to Numerical Linear Algebra. <i>Lecture Notes in Mathematics</i> , 2018 ,	0.4	2
31	Spectral analysis of finite-dimensional approximations of 1d waves in non-uniform grids. <i>Calcolo</i> , 2018 , 55, 1	1.5	2
30	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
29	Computational evaluation of multi-iterative approaches for solving graph-structured large linear systems. <i>Calcolo</i> , 2015 , 52, 425-444	1.5	1
28	Computation of Asymptotic Spectral Distributions for Sequences of Grid Operators. <i>Computational Mathematics and Mathematical Physics</i> , 2020 , 60, 1761-1777	0.9	1

27	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
26	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
25	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
24	Approximating classes of sequences: The Hermitian case. <i>Linear Algebra and Its Applications</i> , 2011 , 434, 1163-1170	0.9	1
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