Lothar Reichel

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/8008935/lothar-reichel-publications-by-year.pdf

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

255 papers

4,467 citations

33 h-index 55 g-index

272 ext. papers

5,135 ext. citations

1.9 avg, IF

5.96 L-index

#	Paper	IF	Citations
255	The extended symmetric block Lanczos method for matrix-valued Gauss-type quadrature rules. <i>Journal of Computational and Applied Mathematics</i> , 2022 , 407, 114037	2.4	
254	Communication in complex networks. Applied Numerical Mathematics, 2022, 172, 186-205	2.5	O
253	Averaged Gauss quadrature formulas: Properties and applications. <i>Journal of Computational and Applied Mathematics</i> , 2022 , 410, 114232	2.4	O
252	Tensor Arnoldilikhonov and GMRES-Type Methods for Ill-Posed Problems with a t-Product Structure. <i>Journal of Scientific Computing</i> , 2022 , 90, 1	2.3	1
251	Rational gauss quadrature rules for the approximation of matrix functionals involving stieltjes functions. <i>Numerische Mathematik</i> , 2022 , 151, 443-473	2.2	1
250	Gauss Laurent-type quadrature rules for the approximation of functionals of a nonsymmetric matrix. <i>Numerical Algorithms</i> , 2021 , 88, 1937	2.1	
249	Chained graphs and some applications. <i>Applied Network Science</i> , 2021 , 6,	2.9	1
248	Iterative Methods for the Computation of the Perron Vector of Adjacency Matrices. <i>Mathematics</i> , 2021 , 9, 1522	2.3	О
247	The extended global Lanczos method, GaussRadau quadrature, and matrix function approximation. <i>Journal of Computational and Applied Mathematics</i> , 2021 , 381, 113027	2.4	3
246	A novel modified TRSVD method for large-scale linear discrete ill-posed problems. <i>Applied Numerical Mathematics</i> , 2021 , 164, 72-88	2.5	2
245	Lanczos-based fast blind deconvolution methods. <i>Journal of Computational and Applied Mathematics</i> , 2021 , 382, 113067	2.4	3
244	On the choice of regularization matrix for an 2 -liminimization method for image restoration. <i>Applied Numerical Mathematics</i> , 2021 , 164, 211-221	2.5	1
243	A new nonstationary preconditioned iterative method for linear discrete ill-posed problems with application to image deblurring. <i>Numerical Linear Algebra With Applications</i> , 2021 , 28, e2353	1.6	O
242	Functions and eigenvectors of partially known matrices with applications to network analysis. <i>Applied Numerical Mathematics</i> , 2021 , 159, 93-105	2.5	
241	Linearized Krylov subspace Bregman iteration with nonnegativity constraint. <i>Numerical Algorithms</i> , 2021 , 87, 1177-1200	2.1	2
240	Shifted extended global Lanczos processes for trace estimation with application to network analysis. <i>Calcolo</i> , 2021 , 58, 1	1.5	О
239	On the block Lanczos and block Golub K ahan reduction methods applied to discrete ill-posed problems. <i>Numerical Linear Algebra With Applications</i> , 2021 , 28, e2376	1.6	1

(2020-2021)

238	GolubRahan vs. Monte Carlo: a comparison of bidiagonlization and a randomized SVD method for the solution of linear discrete ill-posed problems. <i>BIT Numerical Mathematics</i> , 2021 , 61, 1093	1.7	O
237	A new representation of generalized averaged Gauss quadrature rules. <i>Applied Numerical Mathematics</i> , 2021 , 165, 614-619	2.5	2
236	Estimating the error in matrix function approximations. <i>Advances in Computational Mathematics</i> , 2021 , 47, 1	1.6	1
235	Tensor Krylov subspace methods with an invertible linear transform product applied to image processing. <i>Applied Numerical Mathematics</i> , 2021 , 166, 186-207	2.5	2
234	Block matrix models for dynamic networks. <i>Applied Mathematics and Computation</i> , 2021 , 402, 126121	2.7	2
233	New matrix function approximations and quadrature rules based on the Arnoldi process. <i>Journal of Computational and Applied Mathematics</i> , 2021 , 391, 113442	2.4	1
232	New models for multi-class networks. <i>Journal of Computational and Applied Mathematics</i> , 2021 , 394, 113567	2.4	
231	Computation of error bounds via generalized GaussRadau and GaussIlobatto rules. <i>Journal of Computational and Applied Mathematics</i> , 2021 , 396, 113604	2.4	
230	Internality of generalized averaged Gauss quadrature rules and truncated variants for modified Chebyshev measures of the first kind. <i>Journal of Computational and Applied Mathematics</i> , 2021 , 398, 113696	2.4	1
229	Centrality measures for node-weighted networks via line graphs and the matrix exponential. <i>Numerical Algorithms</i> , 2021 , 88, 583-614	2.1	2
228	An 🖟-च minimization method with cross-validation for the restoration of impulse noise contaminated images. <i>Journal of Computational and Applied Mathematics</i> , 2020 , 375, 112824	2.4	8
227	A novel iterative method for discrete Helmholtz decomposition. <i>Applied Numerical Mathematics</i> , 2020 , 151, 161-171	2.5	
226	Simple stopping criteria for the LSQR method applied to discrete ill-posed problems. <i>Numerical Algorithms</i> , 2020 , 84, 1381-1395	2.1	1
225	Iterative Tikhonov regularization of tensor equations based on the Arnoldi process and some of its generalizations. <i>Applied Numerical Mathematics</i> , 2020 , 151, 425-447	2.5	12
224	Golub K ahan bidiagonalization for ill-conditioned tensor equations with applications. <i>Numerical Algorithms</i> , 2020 , 84, 1535-1563	2.1	9
223	Rational averaged gauss quadrature rules. <i>Filomat</i> , 2020 , 34, 379-389	0.7	
222	Modulus-based iterative methods for constrained டி щ minimization. <i>Inverse Problems</i> , 2020 , 36, 08400	12.3	6
221	Large-scale regression with non-convex loss and penalty. <i>Applied Numerical Mathematics</i> , 2020 , 157, 590-601	2.5	4

220	Orthogonal Expansion of Network Functions. Vietnam Journal of Mathematics, 2020, 48, 941-962	0.5	
219	Comparison of A-posteriori parameter choice rules for linear discrete ill-posed problems. <i>Journal of Computational and Applied Mathematics</i> , 2020 , 373, 112138	2.4	2
218	Generalized singular value decomposition with iterated Tikhonov regularization. <i>Journal of Computational and Applied Mathematics</i> , 2020 , 373, 112276	2.4	10
217	A spectral method for bipartizing a network and detecting a large anti-community. <i>Journal of Computational and Applied Mathematics</i> , 2020 , 373, 112306	2.4	4
216	Edge importance in a network via line graphs and the matrix exponential. <i>Numerical Algorithms</i> , 2020 , 83, 807-832	2.1	4
215	Computing unstructured and structured polynomial pseudospectrum approximations. <i>Journal of Computational and Applied Mathematics</i> , 2019 , 350, 57-68	2.4	2
214	Eigenvector sensitivity under general and structured perturbations of tridiagonal Toeplitz-type matrices. <i>Numerical Linear Algebra With Applications</i> , 2019 , 26, e2232	1.6	5
213	Internality of generalized averaged Gaussian quadrature rules and truncated variants for measures induced by Chebyshev polynomials. <i>Applied Numerical Mathematics</i> , 2019 , 142, 190-205	2.5	4
212	Arnoldi decomposition, GMRES, and preconditioning for linear discrete ill-posed problems. <i>Applied Numerical Mathematics</i> , 2019 , 142, 102-121	2.5	7
211	Analysis of directed networks via the matrix exponential. <i>Journal of Computational and Applied Mathematics</i> , 2019 , 355, 182-192	2.4	11
210	Error estimates for Arnoldillikhonov regularization for ill-posed operator equations. <i>Inverse Problems</i> , 2019 , 35, 055002	2.3	3
209	Fast factorization of rectangular Vandermonde matrices with Chebyshev nodes. <i>Numerical Algorithms</i> , 2019 , 81, 547-559	2.1	1
208	Internality of generalized averaged Gaussian quadrature rules and truncated variants for modified Chebyshev measures of the second kind. <i>Journal of Computational and Applied Mathematics</i> , 2019 , 345, 70-85	2.4	6
207	On the choice of subspace for large-scale Tikhonov regularization problems in general form. <i>Numerical Algorithms</i> , 2019 , 81, 33-55	2.1	8
206	Generalized block anti-Gauss quadrature rules. Numerische Mathematik, 2019, 143, 605-648	2.2	4
205	Non-stationary Structure-Preserving Preconditioning for Image Restoration. <i>Springer INdAM Series</i> , 2019 , 51-75	0.4	
204	Optimally Conditioned Vandermonde-Like Matrices. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2019 , 40, 1399-1424	1.5	2
_			

(2017-2018)

202	Solution methods for linear discrete ill-posed problems for color image restoration. <i>BIT Numerical Mathematics</i> , 2018 , 58, 555-576	1.7	13	
201	Parameter determination for Tikhonov regularization problems in general form. <i>Journal of Computational and Applied Mathematics</i> , 2018 , 343, 12-25	2.4	16	
200	Regularization matrices for discrete ill-posed problems in several space dimensions. <i>Numerical Linear Algebra With Applications</i> , 2018 , 25, e2163	1.6	6	
199	Simplified anti-Gauss quadrature rules with applications in linear algebra. <i>Numerical Algorithms</i> , 2018 , 77, 577-602	2.1	8	
198	Numerical aspects of the nonstationary modified linearized Bregman algorithm. <i>Applied Mathematics and Computation</i> , 2018 , 337, 386-398	2.7	5	
197	Accuracy optimization of combined multiparameter measuring systems with application to polarized light microscopy. <i>Physical Review E</i> , 2018 , 97, 063305	2.4		
196	Multiple orthogonal polynomials applied to matrix function evaluation. <i>BIT Numerical Mathematics</i> , 2018 , 58, 835-849	1.7	1	
195	Simple efficient solvers for certain ill-conditioned systems of linear equations, including H(div) problems. <i>Journal of Computational and Applied Mathematics</i> , 2018 , 343, 240-249	2.4	2	
194	Majorization in imization generalized Krylov subspace methods for ({ell _p}) ((ell _q)) optimization applied to image restoration. <i>BIT Numerical Mathematics</i> , 2017 , 57, 351-378	1.7	20	
193	New zero-finders for trust-region computations. <i>Numerical Algorithms</i> , 2017 , 76, 361-375	2.1		
192	Iterated Tikhonov regularization with a general penalty term. <i>Numerical Linear Algebra With Applications</i> , 2017 , 24, e2089	1.6	20	
191	Fractional Tikhonov regularization with a nonlinear penalty term. <i>Journal of Computational and Applied Mathematics</i> , 2017 , 324, 142-154	2.4	16	
190	GCV for Tikhonov regularization by partial SVD. BIT Numerical Mathematics, 2017, 57, 1019-1039	1.7	23	
189	Global Golub K ahan bidiagonalization applied to large discrete ill-posed problems. <i>Journal of Computational and Applied Mathematics</i> , 2017 , 322, 46-56	2.4	8	
188	Modulus-based iterative methods for constrained Tikhonov regularization. <i>Journal of Computational and Applied Mathematics</i> , 2017 , 319, 1-13	2.4	22	
187	On the computation of a truncated SVD of a large linear discrete ill-posed problem. <i>Numerical Algorithms</i> , 2017 , 75, 359-380	2.1	10	
186	Approximated structured pseudospectra. Numerical Linear Algebra With Applications, 2017, 24, e2082	1.6	3	
185	Generalized averaged Szeg[quadrature rules. <i>Journal of Computational and Applied Mathematics</i> , 2017 , 311, 645-654	2.4	6	

184	Circulant preconditioners for discrete ill-posed Toeplitz systems. Numerical Algorithms, 2017, 75, 477-49	9 6 .1	4
183	New block quadrature rules for the approximation of matrix functions. <i>Linear Algebra and Its Applications</i> , 2016 , 502, 299-326	0.9	8
182	A rational Arnoldi process with applications. Numerical Linear Algebra With Applications, 2016, 23, 1007-	1,062.2	4
181	Truncated generalized averaged Gauss quadrature rules. <i>Journal of Computational and Applied Mathematics</i> , 2016 , 308, 408-418	2.4	7
180	Generalized averaged Gauss quadrature rules for the approximation of matrix functionals. <i>BIT Numerical Mathematics</i> , 2016 , 56, 1045-1067	1.7	13
179	Some matrix nearness problems suggested by Tikhonov regularization. <i>Linear Algebra and Its Applications</i> , 2016 , 502, 366-386	0.9	9
178	A global Lanczos method for image restoration. <i>Journal of Computational and Applied Mathematics</i> , 2016 , 300, 233-244	2.4	14
177	Projected nonstationary iterated Tikhonov regularization. <i>BIT Numerical Mathematics</i> , 2016 , 56, 467-487	71.7	8
176	Regularization matrices determined by matrix nearness problems. <i>Linear Algebra and Its Applications</i> , 2016 , 502, 41-57	0.9	15
175	Adaptive cross approximation for ill-posed problems. <i>Journal of Computational and Applied Mathematics</i> , 2016 , 303, 206-217	2.4	5
174	On the Lanczos and GolubKahan reduction methods applied to discrete ill-posed problems. <i>Numerical Linear Algebra With Applications</i> , 2016 , 23, 187-204	1.6	6
173	A new framework for multi-parameter regularization. BIT Numerical Mathematics, 2016, 56, 919-949	1.7	6
172	On the choice of solution subspace for nonstationary iterated Tikhonov regularization. <i>Numerical Algorithms</i> , 2016 , 72, 1043-1063	2.1	4
171	GCV for Tikhonov regularization via global Golub K ahan decomposition. <i>Numerical Linear Algebra With Applications</i> , 2016 , 23, 467-484	1.6	21
170	Convergence rates for inverse-free rational approximation of matrix functions. <i>Linear Algebra and Its Applications</i> , 2016 , 510, 291-310	0.9	2
169	Arnoldi methods for image deblurring with anti-reflective boundary conditions. <i>Applied Mathematics and Computation</i> , 2015 , 253, 135-150	2.7	11
168	Tikhonov regularization via flexible Arnoldi reduction. <i>BIT Numerical Mathematics</i> , 2015 , 55, 1145-1168	1.7	7
167	On the computation of Gauss quadrature rules for measures with a monomial denominator. <i>Journal of Computational and Applied Mathematics</i> , 2015 , 286, 102-113	2.4	2

(2014-2015)

166	A CS decomposition for orthogonal matrices with application to eigenvalue computation. <i>Linear Algebra and Its Applications</i> , 2015 , 476, 197-232	0.9	1	
165	Bounding matrix functionals via partial global block Lanczos decomposition. <i>Applied Numerical Mathematics</i> , 2015 , 94, 127-139	2.5	16	
164	A Golub Rahan-Type Reduction Method for Matrix Pairs. <i>Journal of Scientific Computing</i> , 2015 , 65, 767-	78 9 .3	8	
163	Generalized anti-Gauss quadrature rules. <i>Journal of Computational and Applied Mathematics</i> , 2015 , 284, 235-243	2.4	5	
162	Rescaling the GSVD with application to ill-posed problems. <i>Numerical Algorithms</i> , 2015 , 68, 531-545	2.1	12	
161	Fractional regularization matrices for linear discrete ill-posed problems. <i>Journal of Engineering Mathematics</i> , 2015 , 93, 113-129	1.2	12	
160	Lavrentiev-type regularization methods for Hermitian problems. <i>Calcolo</i> , 2015 , 52, 187-205	1.5	1	
159	Regularization parameter determination for discrete ill-posed problems. <i>Journal of Computational and Applied Mathematics</i> , 2015 , 273, 132-149	2.4	27	
158	Vector extrapolation applied to truncated singular value decomposition and truncated iteration. <i>Journal of Engineering Mathematics</i> , 2015 , 93, 99-112	1.2	4	
157	Image Denoising via Residual Kurtosis Minimization. <i>Numerical Mathematics</i> , 2015 , 8, 406-424	1.5	5	
156	Some properties of range restricted GMRES methods. <i>Journal of Computational and Applied Mathematics</i> , 2015 , 290, 310-318	2.4	4	
155	A Generalized Krylov Subspace Method for \$ell_p\$-\$ell_q\$ Minimization. <i>SIAM Journal of Scientific Computing</i> , 2015 , 37, S30-S50	2.6	30	
154	Square smoothing regularization matrices with accurate boundary conditions. <i>Journal of Computational and Applied Mathematics</i> , 2014 , 272, 334-349	2.4	17	
153	The structure of iterative methods for symmetric linear discrete ill-posed problems. <i>BIT Numerical Mathematics</i> , 2014 , 54, 129-145	1.7	4	
152	Rational Gauss Quadrature. SIAM Journal on Numerical Analysis, 2014, 52, 832-851	2.4	7	
151	Application of denoising methods to regularizationof ill-posed problems. <i>Numerical Algorithms</i> , 2014 , 66, 761-777	2.1	9	
150	FGMRES for linear discrete ill-posed problems. Applied Numerical Mathematics, 2014, 75, 175-187	2.5	9	
149	Analysis of directed networks via partial singular value decomposition and Gauss quadrature. <i>Linear Algebra and Its Applications</i> , 2014 , 456, 93-121	0.9	8	

148	Simplified GSVD computations for the solution of linear discrete ill-posed problems. <i>Journal of Computational and Applied Mathematics</i> , 2014 , 255, 15-27	2.4	20
147	Inverse subspace problems with applications. <i>Numerical Linear Algebra With Applications</i> , 2014 , 21, 589	-603	3
146	A modified truncated singular value decomposition method for discrete ill-posed problems. <i>Numerical Linear Algebra With Applications</i> , 2014 , 21, 813-822	1.6	12
145	Fast computation of convolution operations via low-rank approximation. <i>Applied Numerical Mathematics</i> , 2014 , 75, 136-153	2.5	5
144	A note on superoptimal generalized circulant preconditioners. <i>Applied Numerical Mathematics</i> , 2014 , 75, 188-195	2.5	2
143	A General Framework for Nonlinear Regularized Krylov-Based Image Restoration. <i>Lecture Notes in Computer Science</i> , 2014 , 273-279	0.9	
142	Tridiagonal Toeplitz matrices: properties and novel applications. <i>Numerical Linear Algebra With Applications</i> , 2013 , 20, 302-326	1.6	94
141	Projected Tikhonov Regularization of Large-Scale Discrete Ill-Posed Problems. <i>Journal of Scientific Computing</i> , 2013 , 56, 471-493	2.3	4
140	An augmented LSQR method. Numerical Algorithms, 2013, 64, 263-293	2.1	8
139	Old and new parameter choice rules for discrete ill-posed problems. <i>Numerical Algorithms</i> , 2013 , 63, 65-87	2.1	116
138	Extensions of the JustenRamlau blind deconvolution method. <i>Advances in Computational Mathematics</i> , 2013 , 39, 465-491	1.6	5
137	Minimization of functionals on the solution of a large-scale discrete ill-posed problem. <i>BIT Numerical Mathematics</i> , 2013 , 53, 153-173	1.7	3
136	Recurrence relations for orthogonal rational functions. <i>Numerische Mathematik</i> , 2013 , 123, 629-642	2.2	6
135	Block Gauss and Anti-Gauss Quadrature with Application to Networks. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2013 , 34, 1655-1684	1.5	29
134	Network Analysis via Partial Spectral Factorization and Gauss Quadrature. <i>SIAM Journal of Scientific Computing</i> , 2013 , 35, A2046-A2068	2.6	24
133	The structure of matrices in rational Gauss quadrature. <i>Mathematics of Computation</i> , 2013 , 82, 2035-20	60 .6	9
132	A Cascadic Alternating Krylov Subspace Image Restoration Method. <i>Lecture Notes in Computer Science</i> , 2013 , 98-109	0.9	1
131	Implementations of range restricted iterative methods for linear discrete ill-posed problems. <i>Linear</i>		

(2011-2012)

130	Large-scale Tikhonov regularization via reduction by orthogonal projection. <i>Linear Algebra and Its Applications</i> , 2012 , 436, 2845-2865	0.9	27	
129	Discrete ill-posed least-squares problems with a solution norm constraint. <i>Linear Algebra and Its Applications</i> , 2012 , 436, 3801-3818	0.9	15	
128	Generalized circulant Strang-type preconditioners. <i>Numerical Linear Algebra With Applications</i> , 2012 , 19, 3-17	1.6	5	
127	Algorithms for range restricted iterative methods for linear discrete ill-posed problems. <i>Numerical Algorithms</i> , 2012 , 59, 325-331	2.1	20	
126	A new Tikhonov regularization method. <i>Numerical Algorithms</i> , 2012 , 59, 433-445	2.1	52	
125	Tikhonov regularization based on generalized Krylov subspace methods. <i>Applied Numerical Mathematics</i> , 2012 , 62, 1215-1228	2.5	41	
124	On the generation of Krylov subspace bases. Applied Numerical Mathematics, 2012, 62, 1171-1186	2.5	17	
123	An implicitly restarted block Lanczos bidiagonalization method using Leja shifts. <i>BIT Numerical Mathematics</i> , 2012 , 53, 285	1.7	4	
122	Square regularization matrices for large linear discrete ill-posed problems. <i>Numerical Linear Algebra With Applications</i> , 2012 , 19, 896-913	1.6	25	
121	Inverse problems for regularization matrices. <i>Numerical Algorithms</i> , 2012 , 60, 531-544	2.1	14	
120	On the reduction of Tikhonov minimization problems and the construction of regularization matrices. <i>Numerical Algorithms</i> , 2012 , 60, 683-696	2.1	7	
119	Alternating Krylov subspace image restoration methods. <i>Journal of Computational and Applied Mathematics</i> , 2012 , 236, 2049-2062	2.4	6	
118	A generalized global Arnoldi method for ill-posed matrix equations. <i>Journal of Computational and Applied Mathematics</i> , 2012 , 236, 2078-2089	2.4	8	
117	Combining approximate solutions for linear discrete ill-posed problems. <i>Journal of Computational and Applied Mathematics</i> , 2012 , 236, 2179-2185	2.4	4	
116	Fractional Tikhonov regularization for linear discrete ill-posed problems. <i>BIT Numerical Mathematics</i> , 2011 , 51, 197-215	1.7	50	
115	Wavelet-based multilevel methods for linear ill-posed problems. <i>BIT Numerical Mathematics</i> , 2011 , 51, 669-694	1.7	11	
114	A hybrid multilevel-active set method for large box-constrained linear discrete ill-posed problems. <i>Calcolo</i> , 2011 , 48, 89-105	1.5	5	
113	The structured distance to normality of Toeplitz matrices with application to preconditioning. Numerical Linear Algebra With Applications, 2011, 18, 429-447	1.6	9	

112	An extrapolated TSVD method for linear discrete ill-posed problems with Kronecker structure. Linear Algebra and Its Applications, 2011 , 434, 1677-1688	0.9	20
111	Recursion relations for the extended Krylov subspace method. <i>Linear Algebra and Its Applications</i> , 2011 , 434, 1716-1732	0.9	24
110	An iterative method for Tikhonov regularization with a general linear regularization operator. <i>Journal of Integral Equations and Applications</i> , 2010 , 22,	1.2	32
109	Cascadic multilevel methods for fast nonsymmetric blur- and noise-removal. <i>Applied Numerical Mathematics</i> , 2010 , 60, 378-396	2.5	8
108	Subspace-restricted singular value decompositions for linear discrete ill-posed problems. <i>Journal of Computational and Applied Mathematics</i> , 2010 , 235, 1053-1064	2.4	6
107	Noise-reducing cascadic multilevel methods for linear discrete ill-posed problems. <i>Numerical Algorithms</i> , 2010 , 53, 1-22	2.1	8
106	An interior-point method for large constrained discrete ill-posed problems. <i>Journal of Computational and Applied Mathematics</i> , 2010 , 233, 1288-1297	2.4	6
105	Cascadic multilevel methods for ill-posed problems. <i>Journal of Computational and Applied Mathematics</i> , 2010 , 233, 1314-1325	2.4	14
104	The structured distance to normality of banded Toeplitz matrices. <i>BIT Numerical Mathematics</i> , 2009 , 49, 629-640	1.7	11
103	Vector extrapolation enhanced TSVD for linear discrete ill-posed problems. <i>Numerical Algorithms</i> , 2009 , 51, 195-208	2.1	9
102	Error estimates for large-scale ill-posed problems. <i>Numerical Algorithms</i> , 2009 , 51, 341-361	2.1	24
101	Sensitivity analysis for Szeg[þolynomials. <i>Numerische Mathematik</i> , 2009 , 113, 265-279	2.2	1
100	The extended Krylov subspace method and orthogonal Laurent polynomials. <i>Linear Algebra and Its Applications</i> , 2009 , 431, 441-458	0.9	24
99	Arnoldi T ikhonov regularization methods. <i>Journal of Computational and Applied Mathematics</i> , 2009 , 226, 92-102	2.4	37
98	Error Estimates and Evaluation of Matrix Functions via the Faber Transform. <i>SIAM Journal on Numerical Analysis</i> , 2009 , 47, 3849-3883	2.4	95
97	The Arnoldi Process and GMRES for Nearly Symmetric Matrices. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2008 , 30, 102-120	1.5	8
96	Cascadic Multiresolution Methods for Image Deblurring. SIAM Journal on Imaging Sciences, 2008, 1, 51-7	74 1.9	15
95	A new zero-finder for Tikhonov regularization. <i>BIT Numerical Mathematics</i> , 2008 , 48, 627-643	1.7	26

94	A generalized LSQR algorithm. Numerical Linear Algebra With Applications, 2008, 15, 643-660	1.6	11
93	Matrices, moments, and rational quadrature. <i>Linear Algebra and Its Applications</i> , 2008 , 429, 2540-2554	0.9	17
92	A new L-curve for ill-posed problems. <i>Journal of Computational and Applied Mathematics</i> , 2008 , 219, 49,	3- 5 .48	39
91	Greedy Tikhonov regularization for large linear ill-posed problems. <i>International Journal of Computer Mathematics</i> , 2007 , 84, 1151-1166	1.2	8
90	Augmented GMRES-type methods. Numerical Linear Algebra With Applications, 2007, 14, 337-350	1.6	15
89	An iterative method for linear discrete ill-posed problems with box constraints. <i>Journal of Computational and Applied Mathematics</i> , 2007 , 198, 505-520	2.4	13
88	Decomposition methods for large linear discrete ill-posed problems. <i>Journal of Computational and Applied Mathematics</i> , 2007 , 198, 332-343	2.4	19
87	Szeg¶obatto quadrature rules. Journal of Computational and Applied Mathematics, 2007, 200, 116-126	2.4	15
86	A truncated projected SVD method for linear discrete ill-posed problems. <i>Numerical Algorithms</i> , 2007 , 43, 197-213	2.1	22
85	Restarted block Lanczos bidiagonalization methods. <i>Numerical Algorithms</i> , 2007 , 43, 251-272	2.1	34
84	Orthogonal projection regularization operators. <i>Numerical Algorithms</i> , 2007 , 44, 99-114	2.1	22
83	Anti-Szego quadrature rules. <i>Mathematics of Computation</i> , 2006 , 76, 795-810	1.6	4
82	Iterative methods for ill-posed problems and semiconvergent sequences. <i>Journal of Computational and Applied Mathematics</i> , 2006 , 193, 157-167	2.4	22
81	An iterative Lavrentiev regularization method. <i>BIT Numerical Mathematics</i> , 2006 , 46, 589-606	1.7	8
80	Quadrature Rules Based on the Arnoldi Process. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2005 , 26, 765-781	1.5	12
79	Breakdown-free GMRES for Singular Systems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2005 , 26, 1001-1021	1.5	43
78	Tikhonov regularization of large symmetric problems. <i>Numerical Linear Algebra With Applications</i> , 2005 , 12, 127-139	1.6	2
77	Invertible smoothing preconditioners for linear discrete ill-posed problems. <i>Applied Numerical Mathematics</i> , 2005 , 54, 135-149	2.5	36

76	Augmented Implicitly Restarted Lanczos Bidiagonalization Methods. <i>SIAM Journal of Scientific Computing</i> , 2005 , 27, 19-42	2.6	138
75	L-Curve and Curvature Bounds for Tikhonov Regularization. <i>Numerical Algorithms</i> , 2004 , 35, 301-314	2.1	40
74	Tikhonov Regularization with a Solution Constraint. SIAM Journal of Scientific Computing, 2004, 26, 224-	238	27
73	On the Evaluation of Polynomial Coefficients. <i>Numerical Algorithms</i> , 2003 , 33, 153-161	2.1	11
72	Tikhonov Regularization of Large Linear Problems. BIT Numerical Mathematics, 2003, 43, 263-283	1.7	91
71	Gauss Quadrature Applied to Trust Region Computations. <i>Numerical Algorithms</i> , 2003 , 34, 85-102	2.1	4
70	Symmetric Gauss Ilobatto and Modified Anti-Gauss Rules. BIT Numerical Mathematics, 2003, 43, 541-554	1.7	12
69	Enriched Krylov subspace methods for ill-posed problems. <i>Linear Algebra and Its Applications</i> , 2003 , 362, 257-273	0.9	12
68	IRBL: An Implicitly Restarted Block-Lanczos Method for Large-Scale Hermitian Eigenproblems. <i>SIAM Journal of Scientific Computing</i> , 2003 , 24, 1650-1677	2.6	45
67	Algorithm 827. ACM Transactions on Mathematical Software, 2003, 29, 337-348	2.3	22
66	On the regularizing properties of the GMRES method. <i>Numerische Mathematik</i> , 2002 , 91, 605-625	2.2	67
65	The restarted QR-algorithm for eigenvalue computation of structured matrices. <i>Journal of Computational and Applied Mathematics</i> , 2002 , 149, 415-422	2.4	6
64	Lanczos-Based Exponential Filtering for Discrete Ill-Posed Problems. <i>Numerical Algorithms</i> , 2002 , 29, 45-65	2.1	12
63	GMRES, L-Curves, and Discrete Ill-Posed Problems. <i>BIT Numerical Mathematics</i> , 2002 , 42, 44-65	1.7	48
62	Polynomial zerofinders based on Szeg[polynomials. <i>Journal of Computational and Applied Mathematics</i> , 2001 , 127, 1-16	2.4	9
61	An iterative method with error estimators. <i>Journal of Computational and Applied Mathematics</i> , 2001 , 127, 93-119	2.4	9
60	On the solution of large Sylvester-observer equations. <i>Numerical Linear Algebra With Applications</i> , 2001 , 8, 435-451	1.6	23
59	GMRES-type methods for inconsistent systems. <i>Linear Algebra and Its Applications</i> , 2000 , 316, 157-169	0.9	51

(1996-2000)

58	Tikhonov regularization and the L-curve for large discrete ill-posed problems. <i>Journal of Computational and Applied Mathematics</i> , 2000 , 123, 423-446	2.4	300
57	A regularizing Lanczos iteration method for underdetermined linear systems. <i>Journal of Computational and Applied Mathematics</i> , 2000 , 115, 101-120	2.4	14
56	An L-ribbon for large underdetermined linear discrete ill-posed problems. <i>Numerical Algorithms</i> , 2000 , 25, 89-107	2.1	7
55	Computable error bounds and estimates for the conjugate gradient method. <i>Numerical Algorithms</i> , 2000 , 25, 75-88	2.1	12
54	Computation of Gauss-Kronrod quadrature rules. <i>Mathematics of Computation</i> , 2000 , 69, 1035-1053	1.6	65
53	Iterative Solution Methods for Large Linear Discrete Ill-Posed Problems 1999 , 313-367		10
52	On the selection of poles in the single-input pole placement problem. <i>Linear Algebra and Its Applications</i> , 1999 , 302-303, 331-345	0.9	6
51	On an inverse eigenproblem for Jacobi matrices. Advances in Computational Mathematics, 1999, 11, 11-	2 @ .6	3
50	A block-Lanczos method for large continuation problems. <i>Numerical Algorithms</i> , 1999 , 21, 109-118	2.1	2
49	Estimation of the L-Curve via Lanczos Bidiagonalization. <i>BIT Numerical Mathematics</i> , 1999 , 39, 603-619	1.7	73
48	Iterative exponential filtering for large discrete ill-posed problems. <i>Numerische Mathematik</i> , 1999 , 83, 535-556	2.2	12
47	Applications of Anti-Gauss Quadrature Rules in Linear Algebra 1999 , 41-56		8
46	Gram Polynomials and the Kummer Function. <i>Journal of Approximation Theory</i> , 1998 , 94, 128-143	0.9	18
45	Computation of a Few Small Eigenvalues of a Large Matrix with Application to Liquid Crystal Modeling. <i>Journal of Computational Physics</i> , 1998 , 146, 203-226	4.1	13
44	A hybrid iterative method for symmetric indefinite linear systems. <i>Journal of Computational and Applied Mathematics</i> , 1998 , 92, 109-133	2.4	2
43	Adaptively Preconditioned GMRES Algorithms. SIAM Journal of Scientific Computing, 1998, 20, 243-269	2.6	77
42	Application of ADI Iterative Methods to the Restoration of Noisy Images. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1996 , 17, 165-186	1.5	125
41	Continuation methods for the computation of zeros of Szeg[polynomials. <i>Linear Algebra and Its Applications</i> , 1996 , 249, 125-155	0.9	11

40	An adaptive Richardson iteration method for indefinite linear systems. <i>Numerical Algorithms</i> , 1996 , 12, 125-149	2.1	11
39	A hybrid iterative method for symmetric positive definite linear systems. <i>Numerical Algorithms</i> , 1996 , 11, 79-98	2.1	4
38	Iterative methods for the computation of a few eigenvalues of a large symmetric matrix. <i>BIT Numerical Mathematics</i> , 1996 , 36, 400-421	1.7	38
37	Incomplete partial fractions for parallel evaluation of rational matrix functions. <i>Journal of Computational and Applied Mathematics</i> , 1995 , 59, 349-380	2.4	20
36	Application of a block modified Chebyshev algorithm to the iterative solution of symmetric linear systems with multiple right hand side vectors. <i>Numerische Mathematik</i> , 1994 , 68, 3-16	2.2	5
35	A fast minimal residual algorithm for shifted unitary matrices. <i>Numerical Linear Algebra With Applications</i> , 1994 , 1, 555-570	1.6	25
34	An adaptive Chebyshev iterative methodnewline for nonsymmetric linear systems based on modified moments. <i>Numerische Mathematik</i> , 1994 , 67, 21-40	2.2	21
33	A Newton basis GMRES implementation. <i>IMA Journal of Numerical Analysis</i> , 1994 , 14, 563-581	1.8	59
32	An analogue for Szeg[polynomials of the Clenshaw algorithm. <i>Journal of Computational and Applied Mathematics</i> , 1993 , 46, 211-216	2.4	7
31	On the construction of Szeg[þolynomials. <i>Journal of Computational and Applied Mathematics</i> , 1993 , 46, 241-254	2.4	8
30	Construction of polynomials that are orthogonal with respect to a discrete bilinear form. <i>Advances in Computational Mathematics</i> , 1993 , 1, 241-258	1.6	10
29	A generalized ADI iterative method. <i>Numerische Mathematik</i> , 1993 , 66, 215-233	2.2	28
28	An implementation of a divide and conquer algorithm for the unitary eigen problem. <i>ACM Transactions on Mathematical Software</i> , 1992 , 18, 292-307	2.3	22
27	A Hybrid GMRES Algorithm for Nonsymmetric Linear Systems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1992 , 13, 796-825	1.5	98
26	Krylov-subspace methods for the Sylvester equation. <i>Linear Algebra and Its Applications</i> , 1992 , 172, 283	3-33133	140
25	Eigenvalues and pseudo-eigenvalues of Toeplitz matrices. <i>Linear Algebra and Its Applications</i> , 1992 , 162-164, 153-185	0.9	112
24	Chebyshev-Vandermonde systems. <i>Mathematics of Computation</i> , 1991 , 57, 703-703	1.6	36
23	Fast QR Decomposition of Vandermonde-Like Mmatrices and Polynomial Least Squares Approximation. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1991 , 12, 552-564	1.5	25

22	Discrete least squares approximation by trigonometric polynomials. <i>Mathematics of Computation</i> , 1991 , 57, 273-273	1.6	46
21	Constructing a Unitary Hessenberg Matrix from Spectral Data 1991 , 385-395		17
20	A divide and conquer method for unitary and orthogonal eigenproblems. <i>Numerische Mathematik</i> , 1990 , 57, 695-718	2.2	53
19	Newton interpolation at Leja points. <i>BIT Numerical Mathematics</i> , 1990 , 30, 332-346	1.7	72
18	Algorithm 686: FORTRAN subroutines for updating the QR decomposition. <i>ACM Transactions on Mathematical Software</i> , 1990 , 16, 369-377	2.3	28
17	Newton Interpolation in Fejer and Chebyshev Points. <i>Mathematics of Computation</i> , 1989 , 53, 265	1.6	21
16	Polynomials by Conformal Mapping for the Richardson Iteration Method for Complex Linear Systems. <i>SIAM Journal on Numerical Analysis</i> , 1988 , 25, 1359-1368	2.4	8
15	Determination Of Pisarenko Frequency Estimates As Eigenvalues Of An Orthogonal Matrix 1988,		6
14	A fast method for solving certain integral equations of the first kind with application to conformal mapping. <i>Journal of Computational and Applied Mathematics</i> , 1986 , 14, 125-142	2.4	36
13	Edge waves by boundary collocation. Journal of Computational and Applied Mathematics, 1986, 15, 59-	732.4	1
12	Numerical methods for analytic continuation and mesh generation. <i>Constructive Approximation</i> , 1986 , 2, 23-39	1.6	10
11	On polynomial approximation in the uniform norm by the discrete least squares method. <i>BIT Numerical Mathematics</i> , 1986 , 26, 349-368	1.7	8
10	A method for preconditioning matrices arising from linear integral equations for elliptic boundary value problems. <i>Computing (Vienna/New York)</i> , 1986 , 37, 125-136	2.2	8
9	On polynomial approximation in the complex plane with application to conformal mapping. <i>Mathematics of Computation</i> , 1985 , 44, 425-425	1.6	11
8	On the numerical solution of some 2-D electromagnetic interface problems by the boundary collocation method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1985 , 53, 1-11	5.7	4
7	On the determination of boundary collocation points for solving some problems for the Laplace operator. <i>Journal of Computational and Applied Mathematics</i> , 1984 , 11, 175-196	2.4	9
6	An asymptotically orthonormal polynomial family. BIT Numerical Mathematics, 1984, 24, 647-655	1.7	3
5	The extended global Lanczos method for matrix function approximation. <i>Electronic Transactions on Numerical Analysis</i> ,50, 144-163		6

4	The tensor GolubKahanIIikhonov method applied to the solution of ill-posed problems with a t-product structure. <i>Numerical Linear Algebra With Applications</i> ,e2412	1.6	2
3	Estimating and increasing the structural robustness of a network. <i>Numerical Linear Algebra With Applications</i> ,e2418	1.6	O
2	Generalized cross validation for 月-日 minimization. <i>Numerical Algorithms</i> ,1	2.1	2
1	Variable selection in saturated and supersaturated designs via - minimization. <i>Communications in Statistics Part B: Simulation and Computation</i> ,1-22	0.6	1