

# Lars Eldn

## 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.

36  
papers

1,056  
citations

15  
h-index

32  
g-index

40  
ext. papers

1,170  
ext. citations

2.2  
avg, IF

4.63  
L-index

#	Paper	IF	Citations
36	Wavelet and Fourier Methods for Solving the Sideways Heat Equation. <i>SIAM Journal of Scientific Computing</i> , <b>2000</b> , 21, 2187-2205	2.6	174
35	Matrix Methods in Data Mining and Pattern Recognition <b>2007</b> ,		150
34	Handwritten digit classification using higher order singular value decomposition. <i>Pattern Recognition</i> , <b>2007</b> , 40, 993-1003	7.7	132
33	A Newton-Grassmann Method for Computing the Best Multilinear Rank- $(r_1, r_2, r_3)$ Approximation of a Tensor. <i>SIAM Journal on Matrix Analysis and Applications</i> , <b>2009</b> , 31, 248-271	1.5	83
32	A note on the computation of the generalized cross-validation function for ill-conditioned least squares problems. <i>BIT Numerical Mathematics</i> , <b>1984</b> , 24, 467-472	1.7	82
31	Inexact Rayleigh Quotient-Type Methods for Eigenvalue Computations. <i>BIT Numerical Mathematics</i> , <b>2002</b> , 42, 159-182	1.7	73
30	A Procrustes problem on the Stiefel manifold. <i>Numerische Mathematik</i> , <b>1999</b> , 82, 599-619	2.2	68
29	Partial least-squares vs. Lanczos bidiagonalization analysis of a projection method for multiple regression. <i>Computational Statistics and Data Analysis</i> , <b>2004</b> , 46, 11-31	1.6	48
28	Adaptive Eigenvalue Computations Using Newton's Method on the Grassmann Manifold. <i>SIAM Journal on Matrix Analysis and Applications</i> , <b>2002</b> , 23, 819-839	1.5	26
27	A stability estimate for a Cauchy problem for an elliptic partial differential equation. <i>Inverse Problems</i> , <b>2005</b> , 21, 1643-1653	2.3	22
26	Krylov-type methods for tensor computations I. <i>Linear Algebra and Its Applications</i> , <b>2013</b> , 438, 891-918	0.9	21
25	Diagonalization of tensors with circulant structure. <i>Linear Algebra and Its Applications</i> , <b>2011</b> , 435, 422-447.	0.9	21
24	Numerical linear algebra in data mining. <i>Acta Numerica</i> , <b>2006</b> , 15, 327-384	15.1	21
23	A numerical solution of a Cauchy problem for an elliptic equation by Krylov subspaces. <i>Inverse Problems</i> , <b>2009</b> , 25, 065002	2.3	18
22	Solving Ill-Posed Linear Systems with GMRES and a Singular Preconditioner. <i>SIAM Journal on Matrix Analysis and Applications</i> , <b>2012</b> , 33, 1369-1394	1.5	16
21	A quasi-boundary-value method for the Cauchy problem for elliptic equations with nonhomogeneous Neumann data. <i>Journal of Inverse and Ill-Posed Problems</i> , <b>2010</b> , 18,	1.3	15
20	Non-negative Tensor Factorization Based on Alternating Large-scale Non-negativity-constrained Least Squares <b>2007</b> ,		15

19	Solving a Cauchy problem for a 3D elliptic PDE with variable coefficients by a quasi-boundary-value method. <i>Inverse Problems</i> , <b>2014</b> , 30, 015005	2.3	14
18	Stability analysis and fast algorithms for triangularization of Toeplitz matrices. <i>Numerische Mathematik</i> , <b>1997</b> , 76, 383-402	2.2	13
17	An Efficient Algorithm for the Regularization of Ill-Conditioned Least Squares Problems with Triangular Toeplitz Matrix. <i>SIAM Journal on Scientific and Statistical Computing</i> , <b>1984</b> , 5, 229-236		13
16	Perturbation Theory and Optimality Conditions for the Best Multilinear Rank Approximation of a Tensor. <i>SIAM Journal on Matrix Analysis and Applications</i> , <b>2011</b> , 32, 1422-1450	1.5	7
15	Grassmann algorithms for low rank approximation of matrices with missing values. <i>BIT Numerical Mathematics</i> , <b>2010</b> , 50, 173-191	1.7	6
14	Solving Quadratically Constrained Least Squares Problems Using a Differential-Geometric Approach. <i>BIT Numerical Mathematics</i> , <b>2002</b> , 42, 323-335	1.7	5
13	Stability and regularization of a backward parabolic PDE with variable coefficients. <i>Journal of Inverse and Ill-Posed Problems</i> , <b>2010</b> , 18,	1.3	4
12	Solving an Ill-Posed Cauchy Problem for a Two-Dimensional Parabolic PDE with Variable Coefficients Using a Preconditioned GMRES Method. <i>SIAM Journal of Scientific Computing</i> , <b>2014</b> , 36, B868-B886 <sup>3</sup>	2.6	3
11	The maximum likelihood estimate in reduced-rank regression. <i>Numerical Linear Algebra With Applications</i> , <b>2005</b> , 12, 731-741	1.6	3
10	Semi-sparse PCA. <i>Psychometrika</i> , <b>2019</b> , 84, 164-185	2.2	1
9	Spectral partitioning of large and sparse 3-tensors using low-rank tensor approximation. <i>Numerical Linear Algebra With Applications</i> ,	1.6	1
8	Approximating minimum norm solutions of rank-deficient least squares problems. <i>Numerical Linear Algebra With Applications</i> , <b>1998</b> , 5, 79-99	1.6	0
7	Computing Frechet derivatives in partial least squares regression. <i>Linear Algebra and Its Applications</i> , <b>2015</b> , 473, 316-338	0.9	
6	Preface to BIT 56:4. <i>BIT Numerical Mathematics</i> , <b>2016</b> , 56, 1163-1164	1.7	
5	Computing Semantic Clusters by Semantic Mirroring and Spectral Graph Partitioning. <i>Mathematics in Computer Science</i> , <b>2013</b> , 7, 293-313	0.5	
4	Preface: Gunilla Kreiss new Editor-in-Chief. <i>BIT Numerical Mathematics</i> , <b>2017</b> , 57, 607-607	1.7	
3	Preface to BIT 55:4. <i>BIT Numerical Mathematics</i> , <b>2015</b> , 55, 897-899	1.7	
2	Solving bilinear tensor least squares problems and application to Hammerstein identification. <i>Numerical Linear Algebra With Applications</i> , <b>2018</b> , 26, e2226	1.6	

1 A Krylov-Schur-like method for computing the best rank- $(r_1, r_2, r_3)$  approximation of large and sparse tensors. *Numerical Algorithms*, 1

2.1