## Zhongxiao Jia

## List of Publications by Year

 in descending orderSource: https:/|exaly.com/author-pdf/2280328/publications.pdf
Version: 2024-02-01


1. Refined iterative algorithms based on Arnoldi's process for large unsymmetric eigenproblems. Linear
6 The refined harmonic Arnoldi method and an implicitly restarted refined algorithm for computing
11 Composite orthogonal projection methods for large matrix eigenproblems. Science in China Series $A$ : Mathematics, 1989, 42, 577-585.

14 On the condition number of the total least squares problem. Numerische Mathematik, 2013, 125, 61-87.
1.9

16

$$
\begin{aligned}
& \text { Some results on the regularization of LSQR for large-scale discrete ill-posed problems. Science China } \\
& \text { Mathematics, } 2017,60,701-718 .
\end{aligned}
$$

1.7

15
1.7

16 Using cross-product matrices to compute the SVD. Numerical Algorithms, 2006, 42, 31-61.
1.9

13
On convergence of the inexact Rayleigh quotient iteration with MINRES. Journal of Computational
and Applied Mathematics, 2012, 236,4276-4295.

Harmonic and refined harmonic shift-invert residual Arnoldi and Jacobiâ€"Davidson methods for interior eigenvalue problems. Journal of Computational and Applied Mathematics, 2015, 282, 83-97.
$2.0 \quad 8$

A posteriori error estimates of krylov subspace approximations to matrix functions. Numerical
1.9

Algorithms, 2015, 69, 1-28.

A joint bidiagonalization based iterative algorithm for large scale general-form Tikhonov regularization. Applied Numerical Mathematics, 2020, 157, 159-177.
$2.1 \quad 8$

Some properties of LSQR for large sparse linear least squares problems. Journal of Systems Science

Regularization properties of Krylov iterative solvers CGME and LSMR for linear discrete ill-posed
problems with an application to truncated randomized SVDs. Numerical Algorithms, 2020, 85, 1281-1310.

On IOM(q): The Incomplete Orthogonalization Method for Large Unsymmetric Linear Systems.
Numerical Linear Algebra With Applications, 1996, 3, 491-512.

A convergence analysis of the inexact Rayleigh quotient iteration and simplified Jacobi-Davidson
27 method for the large Hermitian matrix eigenproblem. Science in China Series A: Mathematics, 2008, 51 ,

A residual based sparse approximate inverse preconditioning procedure for large sparse linear systems. Numerical Linear Algebra With Applications, 2017, 24, e2080.
29 Approximation accuracy of the Krylov subspaces for linear discret Computational and Applied Mathematics, 2020, 374, 112786.
$2.0 \quad 5$

30 On choices of formulations of computing the generalized singular value decomposition of a large matrix pair. Numerical Algorithms, 2021, 87, 689-718.
1.9

5

The joint bidiagonalization process with partial reorthogonalization. Numerical Algorithms, 2021, 88,
$965-992$.
The joint bidiagonalization process with partial reorthogonalization. Numerical Algorithms, 2021, 88,
$965-992$.
$1.9 \quad 5$

On the convergence of Ritz pairs and refined Ritz vectors for quadratic eigenvalue problems. BIT
2.0

4

Robust dropping criteria for F-norm minimization based sparse approximate inverse preconditioning. BIT Numerical Mathematics, 2013, 53, 959-985.

Regularization properties of LSQR for linear discrete ill-posed problems in the multiple singular value

