## Zhong-Zhi Bai

## List of Publications by Year in descending order

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1 The power method and beyond. Applied Numerical Mathematics, 2021, 164, 29-42.
1.2

2

2 On refinement of the generalized Bendixson theorem. Applied Numerical Mathematics, 2021, 164, 125-138.

Focused Section on Matrix Computations. Communications on Applied Mathematics and Computation,
2021, 3, 107-107.

On convergence rate of the randomized Gauss-Seidel method. Linear Algebra and Its Applications, 2021, 611, 237-252.

Optimal rotated block-diagonal preconditioning for discretized optimal control problems
5 constrained with fractional time-dependent diffusive equations. Applied Numerical Mathematics, 2021,
$1.2 \quad 11$ 163, 126-146.

6 On Greedy Randomized Augmented Kaczmarz Method for Solving Large Sparse Inconsistent Linear Systems. SIAM Journal of Scientific Computing, 2021, 43, A3892-A3911.
1.3

On regularized Hermitian splitting iteration methods for solving discretized almostâ€isotropic spatial
On regularized Hermitian splitting iteration methods for solving discretized almostấisotropi
fractional diffusion equations. Numerical Linear Algebra With Applications, 2020, 27, e2274.
0.9

3

Fast matrix splitting preconditioners for higher dimensional spatial fractional diffusion equations.
Journal of Computational Physics, 2020, 404, 109117.

Regularized HSS iteration methods for stabilized saddle-point problems. IMA Journal of Numerical
Analysis, 2019, 39, 1888-1923.

Computing eigenpairs of Hermitian matrices in perfect Krylov subspaces. Numerical Algorithms, 2019,
1.1

5
11 On partially randomized extended Kaczmarz method for solving large sparse overdetermined
inconsistent linear systems. Linear Algebra and Its Applications, 2019, 578, 225-250.

On greedy randomized coordinate descent methods for solving large linear leastâ€ $£ q u a r e s ~ p r o b l e m s . ~$
12 Numerical Linear Algebra With Applications, 2019, 26, e2237.
0.9

43

On multistep Rayleigh quotient iterations for Hermitian eigenvalue problems. Computers and
Mathematics With Applications, 2019, 77, 2396-2406.

On banded $M$-splitting iteration methods for solving discretized spatial fractional diffusion equations. BIT Numerical Mathematics, 2019, 59, 1-33.
1.0

16

On Greedy Randomized Kaczmarz Method for Solving Large Sparse Linear Systems. SIAM Journal of
Scientific Computing, 2018, 40, A592-A606.
1.3

114

Editorial: Novel methods and theories in numerical algebra with interdisciplinary applications.
Numerical Linear Algebra With Applications, 2018, 25, e2181.

Respectively scaled HSS iteration methods for solving discretized spatial fractional diffusion
equations. Numerical Linear Algebra With Applications, 2018, 25, e2157.

| 25 | On local quadratic convergence of inexact simplified Jacobiâ€"Davidson method for interior eigenpairs of Hermitian eigenproblems. Applied Mathematics Letters, 2017, 72, 23-28. | 1.5 |
| :---: | :---: | :---: |
| 26 | Diagonal and Toeplitz splitting iteration methods for diagonal-plus-Toeplitz linear systems from spatial fractional diffusion equations. Numerical Linear Algebra With Applications, 2017, 24, e2093. | 0.9 |
| 27 | Modulus-based iterative methods for constrained Tikhonov regularization. Journal of Computational and Applied Mathematics, 2017, 319, 1-13. | 1.1 |
| 28 | Regularized HSS iteration methods for saddle-point linear systems. BIT Numerical Mathematics, 2017, 57, 287-311. | 1.0 |

29 Editorial Preface: â€œPreconditioning and Iterative Methods for Algebraic Systems and Complementarity Problemsâ€: East Asian Journal on Applied Mathematics, 2017, 7, i-ii.
$0.4 \quad 0$30 On SSORâ€like preconditioners for nonâ€Hermitian positive definite matrices. Numerical Linear Algebra0.9
31 Mathematics, 2016, 56, 395-397.Rigorous convergence analysis of alternating variable minimization with multiplier methods for32 quadratic programming problems with equality constraints. BIT Numerical Mathematics, 2016, 56,1.08399-422.

33 Preface to the special issue on â€œPractical methods and rigorous theories in numerical algebra and

0.9

13
108-135.

On approximated ILU and UGS preconditioning methods for linearized discretized steady incompressible Navier-Stokes equations. Numerical Algorithms, 2014, 65, 43-68.
1.1

3

Optimization of extrapolated Cayley transform with non-Hermitian positive definite matrix. Linear
Algebra and Its Applications, 2014, 463, 322-339.
0.4

Modulusâ€based synchronous multisplitting iteration methods for linear complementarity problems.
$40 \quad$ Numerical Linear Algebra With Applications, 2013, 20, 425-439.
0.9

123

On the Meany inequality with applications to convergence analysis of several row-action iteration methods. Numerische Mathematik, 2013, 124, 215-236.
$0.9 \quad 29$

Additive block diagonal preconditioning for block two-by-two linear systems of skew-Hamiltonian
coefficient matrices. Numerical Algorithms, 2013, 62, 655-675.
1.1

Rotated block triangular preconditioning based on PMHSS. Science China Mathematics, 2013, 56,
2523-2538.
0.8

59

Block-triangular preconditioning methods for linear third-order ordinary differential equations based on reduced-order sinc discretizations. Japan Journal of Industrial and Applied Mathematics, 2013, 30, 511-527.

Modulus-based synchronous two-stage multisplitting iteration methods for linear complementarity
problems. Numerical Algorithms, 2013, 62, 59-77.
$1.1 \quad 116$

On nonsingularity of block two-by-two matrices. Linear Algebra and Its Applications, 2013, 439,
2388-2404.

Eigenvalue estimates for saddle point matrices of Hermitian and indefinite leading blocks. Journal of Computational and Applied Mathematics, 2013, 237, 295-306.

Preconditioned MHSS iteration methods for a class of block two-by-two linear systems with applications to distributed control problems. IMA Journal of Numerical Analysis, 2013, 33, 343-369.
1.5

173

Innovative methods and theories in numerical algebra. Numerical Linear Algebra With Applications, 2012, 19, 893-895.
0.9

0

Block alternating splitting implicit iteration methods for saddleâ€point problems from timeâ€harmonic eddy current models. Numerical Linear Algebra With Applications, 2012, 19, 914-936.
0.9

53

Continuous-time accelerated block successive overrelaxation methods for time-dependent Stokes
equations. Journal of Computational and Applied Mathematics, 2012, 236, 3265-3285.

On preconditioned MHSS iteration methods for complex symmetric linear systems. Numerical
Algorithms, 2011, 56, 297-317.
1.1

203

Block preconditioners for elliptic PDE-constrained optimization problems. Computing (Vienna/New) Tj ETQq1 10.784314 rgBI/Overl
On sinc discretization and banded preconditioning for linear third-order ordinary differential
equations. Numerical Linear Algebra With Applications, 2011, 18, 471-497.
equations. Numerical Linear Algebra With Applications, 2011, 18, 471-497.
equations. Numerical Linear Algebra With Applications, 2011, 18, 471-497.

On convergence conditions of waveform relaxation methods for linear differential-algebraic
1.1

12
equations. Journal of Computational and Applied Mathematics, 2011, 235, 2790-2804.
Modified HSS iteration methods for a class of complex symmetric linear systems. Computing
(Vienna/New York), 2010, 87, 93-111.

On semi-convergence of Hermitian and skew-Hermitian splitting methods for singular linear systems.
3.2

108
Computing (Vienna/New York), 2010, 89, 171-197.
59
60$3.2 \quad 12$
61 Modified incomplete orthogonal factorization methods using Givens rotations. Computing
61 Modified incomplete orthogonal factorization methods using Givens rotations. Computing Modified incomplete orthogonal facto
61 (Vienna/New York), 2009, 86, 53-69. Modified incomplete orthogonal facto
61 (Vienna/New York), 2009, 86, 53-69.
62 On HSS-based iteration methods for weakly nonlinear systems. Applied Numerical Mathematics, 2009,
62 On HSS-based iteration methods for weakly nonlinear systems. Applied Numerical Mathematics, 2009, 59, 2923-2936. 59, 2923-2936.
63 On semi-convergence of parameterized Uzawa methods for singular saddle point problems. Linear
Algebra and lts Applications, 2009, 431, 808-817. and Applied Mathematics, 2009, 226, 22-41.$0.4 \quad 110$
1.116
65 Product-type skew-Hermitian triangular splitting iteration methods for strongly non-Hermitianpositive definite linear systems. Journal of Computational and Applied Mathematics, 2009, 232, 3-16.
66 On Preconditioned Iterative Methods for Certain Time-Dependent Partial Differential Equations. SIAM Journal on Numerical Analysis, 2009, 47, 1019-1037.
1.1 ..... 291.123
Modulus-based matrix splitting iteration methods for linear complementarity problems. Numerical 0.9 ..... 274Optimal parameters in the HSSâ€like methods for saddleâ€point problems. Numerical Linear Algebra WithApplications, 2009, 16, 447-479.0.7140
Constraint Preconditioners for Symmetric Indefinite Matrices. SIAM Journal on Matrix Analysis and 67 Applications, 2009, 31, 410-433.Several splittings for non-Hermitian linear systems. Science in China Series A: Mathematics, 2008, 51,0.5
1339-1348.
On inexact hermitian and skew-Hermitian splitting methods for non-Hermitian positive definite linear 69 systems. Linear Algebra and Its Applications, 2008, 428, 413-440.0.4158
Splitting iteration methods for non-Hermitian positive definite systems of linear equations. Hokkaido
Mathematical Journal, 2007, 36, 801.

$80 \quad$| New preconditioners for saddle point problems. Applied Mathematics and Computation, 2006, |
| :--- |
| $762-771$. |

81 Convergence analysis of two-stage waveform relaxation method for the initial value problems.
Applied Mathematics and Computation, 2006, 172, 797-808.

A modified damped Newton method for linear complementarity problems. Numerical Algorithms, 2006,
42, 207-228.

| 83 | Iterative orthogonal direction methods for Hermitian minimum norm solutions of two consistent matrix equations. Numerical Linear Algebra With Applications, 2006, 13, 801-823. | 0.9 | 75 |
| :---: | :---: | :---: | :---: |
| 84 | Alternately linearized implicit iteration methods for the minimal nonnegative solutions of the nonsymmetric algebraic Riccati equations. Numerical Linear Algebra With Applications, 2006, 13, 655-674. | 0.9 | 65 |
| 85 | Alternating splitting waveform relaxation method and its successive overrelaxation acceleration. Computers and Mathematics With Applications, 2005, 49, 157-170. | 1.4 | 10 |
| 86 | Two-step waveform relaxation methods for implicit linear initial value problems. Numerical Linear Algebra With Applications, 2005, 12, 293-304. | 0.9 | 15 |
| 87 | On generalized successive overrelaxation methods for augmented linear systems. Numerische Mathematik, 2005, 102, 1-38. | 0.9 | 326 |
| 88 | Structured preconditioners for nonsingular matrices of block two-by-two structures. Mathematics of Computation, 2005, 75, 791-816. | 1.1 | 225 |
| 89 | On Inexact Preconditioners for Nonsymmetric Matrices. SIAM Journal of Scientific Computing, 2005, 26, 1710-1724. | 1.3 | 97 |

97 Convergence theorems for parallel multisplitting two-stage iterative methods for mildly nonlinear systems. Linear Algebra and Its Applications, 2003, 362, 237-250.
11

On the convergence of additive and multiplicative splitting iterations for systems of linear equations. Journal of Computational and Applied Mathematics, 2003, 154, 195-214.
99 On the convergence of parallel nonstationary multisplitting iteration methods. Journal of
101 Hermitian and Skew-Hermitian Splitting Methods for Non-Hermitian Positive Definite Linear Systems.
SIAM Journal on Matrix Analysis and Applications, 2003, 24, 603-626.
$0.7 \quad 832$

109 A class of parallel hybrid two-stage iteration methods for block bordered linear systems. Applied Mathematics and Computation, 1999, 101, 245-267.

A class of asynchronous multisplitting two-stage iterations for large sparse block systems of weakly nonlinear equations. Journal of Computational and Applied Mathematics, 1999, 110, 271-286.

A class of asynchronous parallel multisplitting blockwise relaxation methods. Parallel Computing, 1999, 25, 681-701.

Some properties of the block matrices in the parallel decomposition-type relaxation methods. Applied Numerical Mathematics, 1999, 29, 167-170.

Block and asynchronous two-stage methods for mildly nonlinear systems. Numerische Mathematik, 1999, 82, 1-20.
$0.9 \quad 31$

114 Convergence analysis of the two-stageÂTmultisplitting method. Calcolo, 1999, 36, 63-74.

116 Asynchronous parallel nonlinear multisplitting relaxation methods for large sparse nonlinear complementarity problems. Applied Mathematics and Computation, 1998, 92, 85-100.

Asynchronous multisplitting two-stage iterations for systems of weakly nonlinear equations. Journal of Computational and Applied Mathematics, 1998, 93, 13-33.

Chaotic iterative methods for the linear complementarity problems. Journal of Computational and Applied Mathematics, 1998, 96, 127-138.

A class of asynchronous parallel nonlinear accelerated overrelaxation methods for the nonlinear
complementarity problems. Journal of Computational and Applied Mathematics, 1998, 93, 35-44.

The convergence of the two-stage iterative method for Hermitian positive definite linear systems.
Applied Mathematics Letters, 1998, 11, 1-5.

Blockwise matrix multi-splitting multi-parameter block relaxation methods*. International Journal of
Computer Mathematics, 1997, 64, 103-118.
A CLASS OF MULTI-PARAMETER RELAXED PARALLEL MULTISPLITTING METHODS FOR LARGE SPARSE LINEAR
122 COMPLEMENTARITY PROBLEMS. International Journal of Parallel, Emergent and Distributed Systems, 1997, 11, 113-127.

Matrix multisplitting relaxation methods for linear complementarity problems. International Journal of Computer Mathematics, 1997, 63, 309-326.

Title is missing!. Numerical Algorithms, 1997, 15, 347-372.
1.1

28

