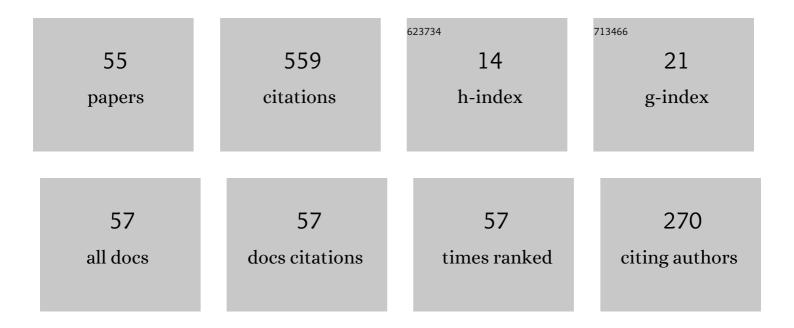
## Heike FaÃbender

List of Publications by Year in descending order

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HEIKE FAÄŸRENDED

#	Article	IF	CITATIONS
1	An implicitly restarted symplectic Lanczos method for the Hamiltonian eigenvalue problem. Linear Algebra and Its Applications, 1997, 263, 75-111.	0.9	71
2	Hamiltonian square roots of skew-Hamiltonian matrices. Linear Algebra and Its Applications, 1999, 287, 125-159.	0.9	42
3	On the numerical solution of large-scale sparse discrete-time Riccati equations. Advances in Computational Mathematics, 2011, 35, 119-147.	1.6	29
4	A Jacobi-like method for solving algebraic Riccati equations on parallel computers. IEEE Transactions on Automatic Control, 1997, 42, 1071-1084.	5.7	25
5	Hamilton and Jacobi come full circle: Jacobi algorithms for structured Hamiltonian eigenproblems. Linear Algebra and Its Applications, 2001, 332-334, 37-80.	0.9	25
6	A fully adaptive rational global Arnoldi method for the model-order reduction of second-order MIMO systems with proportional damping. Mathematics and Computers in Simulation, 2016, 122, 1-19.	4.4	24
7	A Hamiltonian Krylov–Schur-type method based on the symplectic Lanczos process. Linear Algebra and Its Applications, 2011, 435, 578-600.	0.9	23
8	The symplectic eigenvalue problem, the butterfly form, the SR algorithm, and the Lanczos method. Linear Algebra and Its Applications, 1998, 275-276, 19-47.	0.9	22
9	Some observations on the Youla form and conjugate-normal matrices. Linear Algebra and Its Applications, 2007, 422, 29-38.	0.9	20
10	Conjugate-normal matrices: A survey. Linear Algebra and Its Applications, 2008, 429, 1425-1441.	0.9	18
11	SR and SZ algorithms for the symplectic (butterfly) eigenproblem. Linear Algebra and Its Applications, 1999, 287, 41-76.	0.9	16
12	An Implicitly Restarted Symplectic Lanczos Method for the Symplectic Eigenvalue Problem. SIAM Journal on Matrix Analysis and Applications, 2001, 22, 682-713.	1.4	16
13	On numerical methods for discrete least-squares approximation by trigonometric polynomials. Mathematics of Computation, 1997, 66, 719-742.	2.1	15
14	Two connections between the SR and HR eigenvalue algorithms. Linear Algebra and Its Applications, 1998, 272, 17-32.	0.9	14
15	On the diagonalizability of a matrix by a symplectic equivalence, similarity or congruence transformation. Linear Algebra and Its Applications, 2016, 496, 288-306.	0.9	13
16	Computing matrix–vector products with centrosymmetric and centrohermitian matrices. Linear Algebra and Its Applications, 2003, 364, 235-241.	0.9	12
17	Several observations on symplectic, Hamiltonian, and skew-Hamiltonian matrices. Linear Algebra and Its Applications, 2005, 400, 15-29.	0.9	12
18	Proper Orthogonal Decomposition for steady aerodynamic applications. Proceedings in Applied Mathematics and Mechanics, 2010, 10, 635-636.	0.2	12

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19	On vector spaces of linearizations for matrix polynomials in orthogonal bases. Linear Algebra and Its Applications, 2017, 525, 59-83.	0.9	12
20	Some remarks on the complex J-symmetric eigenproblem. Linear Algebra and Its Applications, 2018, 544, 407-442.	0.9	10
21	Projection-Based Model Order Reduction for Steady Aerodynamics. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2013, , 151-166.	0.3	10
22	Numerische Methoden zur passivitÃæerhaltenden Modellreduktion (Numerical Methods for Passivity) Tj ETQqC	0 0 rgBT /	Overlock 10 Ti
23	On the product of two skew-Hamiltonian or two skew-symmetric matrices. Journal of Mathematical Sciences, 2009, 157, 697-700.	0.4	9
24	Error bounds in the isometric Arnoldi process. Journal of Computational and Applied Mathematics, 1997, 86, 53-72.	2.0	7
25	On the Perturbation Theory for Unitary Eigenvalue Problems. SIAM Journal on Matrix Analysis and Applications, 2000, 21, 809-824.	1.4	7
26	An inverse eigenvalue problem and an associated approximation problem for generalized K-centrohermitian matrices. Journal of Computational and Applied Mathematics, 2007, 206, 578-585.	2.0	7
27	Block Kronecker ansatz spaces for matrix polynomials. Linear Algebra and Its Applications, 2018, 542, 118-148.	0.9	7
28	Inverse unitary eigenproblems and related orthogonal functions. Numerische Mathematik, 1997, 77, 323-345.	1.9	6
29	Error Analysis of the Symplectic Lanczos Method for the Symplectic Eigenvalue Problem. BIT Numerical Mathematics, 2000, 40, 471-496.	2.0	6
30	Machine tool simulation based on reduced order FE models. Mathematics and Computers in Simulation, 2011, 82, 404-413.	4.4	6
31	A quadrature framework for solving Lyapunov and Sylvester equations. Linear Algebra and Its Applications, 2021, 622, 66-103.	0.9	6
32	On the Solution of the Rational Matrix Equation. Eurasip Journal on Advances in Signal Processing, 2007, 2007, 1.	1.7	5
33	Some properties of generalized K-centrosymmetric H-matrices. Journal of Computational and Applied Mathematics, 2008, 215, 38-48.	2.0	5
34	Initializing Newton's method for discrete-time algebraic Riccati equations using the butterfly SZ algorithm. , 0, , .		4
35	SYMMLQ-like procedure for Ax = b where A is a special normal matrix. Calcolo, 2006, 43, 17-37.	1.1	4
36	A note on an unusual type of polar decomposition. Linear Algebra and Its Applications, 2008, 429, 42-49.	0.9	4

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37	Passivity preserving model reduction via a structured Lanczos method. , 2006, , .		3
38	On the conditioning of factors in the SR decomposition. Linear Algebra and Its Applications, 2016, 505, 224-244.	0.9	3
39	Breaking Van Loan's Curse: A Quest forStructure-Preserving Algorithms for Dense Structured Eigenvalue Problems. , 2015, , 3-23.		3
40	Quadratically normal and congruence-normal matrices. Journal of Mathematical Sciences, 2010, 165, 521-532.	0.4	2
41	Some contributions to the model order reduction of large scale non-linear electric circuits. Proceedings in Applied Mathematics and Mechanics, 2010, 10, 639-640.	0.2	2
42	Missing Point Estimation for steady aerodynamic applications. Proceedings in Applied Mathematics and Mechanics, 2011, 11, 839-840.	0.2	2
43	Model Order Reduction for Unsteady Aerodynamic Applications. Proceedings in Applied Mathematics and Mechanics, 2013, 13, 475-476.	0.2	2
44	Model order reduction for steady aerodynamics of high-lift configurations. CEAS Aeronautical Journal, 2014, 5, 487-500.	1.7	2
45	Constructing symmetric structure-preserving strong linearizations. ACM Communications in Computer Algebra, 2017, 50, 167-169.	0.4	1
46	Passivity Preserving Model Reduction via a Structured Lanczos Method. , 2006, , .		1
47	Simultaneous reduction to block triangular form by a unitary congruence transformation. Journal of Mathematical Sciences, 2008, 150, 1943-1950.	0.4	0
48	Preface to the 17th ILAS Conference †Pure and Applied Linear Algebra: The New Generation' Proceedings, Braunschweig, Germany, 2011. Linear Algebra and Its Applications, 2013, 439, 807-808.	0.9	0
49	On a modification of the EVENâ€IRA algorithm for the solution of T â€even polynomial eigenvalue problems. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800006.	0.2	0
50	7th Workshop on Matrix Equations and Tensor Techniques. Numerical Linear Algebra With Applications, 2018, 25, e2223.	1.6	0
51	On normal and structured matrices under unitary structure-preserving transformations. Linear Algebra and Its Applications, 2021, 608, 322-342.	0.9	0
52	Nearly optimal scaling in the SR decomposition. Linear Algebra and Its Applications, 2021, 613, 295-319.	0.9	0
53	Structured Eigenvalue Problems — Structure-Preserving Algorithms, Structured Error Analysis. Discrete Mathematics and Its Applications, 2013, , 1129-1150.	0.1	0
54	A revised moment error expression for the AIRGA algorithm. Analele Stiintifice Ale Universitatii Ovidius Constanta, Seria Matematica, 2018, 26, 87-104.	0.3	0

#	Article	IF	CITATIONS
55	On the singular value decomposition of (skew-)involutory and (skew-)coninvolutory matrices. Special Matrices, 2020, 8, 1-13.	0.5	0