

Heike Faßbender

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	On normal and structured matrices under unitary structure-preserving transformations. <i>Linear Algebra and Its Applications</i> , 2021, 608, 322-342.	0.4	0
2	Nearly optimal scaling in the SR decomposition. <i>Linear Algebra and Its Applications</i> , 2021, 613, 295-319.	0.4	0
3	A quadrature framework for solving Lyapunov and Sylvester equations. <i>Linear Algebra and Its Applications</i> , 2021, 622, 66-103.	0.4	6
4	On the singular value decomposition of (skew-)involutory and (skew-)coninvolutory matrices. <i>Special Matrices</i> , 2020, 8, 1-13.	0.2	0
5	Block Kronecker ansatz spaces for matrix polynomials. <i>Linear Algebra and Its Applications</i> , 2018, 542, 118-148.	0.4	7
6	On a modification of the EVENâ€”RA algorithm for the solution of T â€”even polynomial eigenvalue problems. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2018, 18, e201800006.	0.2	0
7	7th Workshop on Matrix Equations and Tensor Techniques. <i>Numerical Linear Algebra With Applications</i> , 2018, 25, e2223.	0.9	0
8	Some remarks on the complex J-symmetric eigenproblem. <i>Linear Algebra and Its Applications</i> , 2018, 544, 407-442.	0.4	10
9	A revised moment error expression for the AIRGA algorithm. <i>Analele Stiintifice Ale Universitatii Ovidius Constanta, Seria Matematica</i> , 2018, 26, 87-104.	0.1	0
10	Constructing symmetric structure-preserving strong linearizations. <i>ACM Communications in Computer Algebra</i> , 2017, 50, 167-169.	0.2	1
11	On vector spaces of linearizations for matrix polynomials in orthogonal bases. <i>Linear Algebra and Its Applications</i> , 2017, 525, 59-83.	0.4	12
12	On the diagonalizability of a matrix by a symplectic equivalence, similarity or congruence transformation. <i>Linear Algebra and Its Applications</i> , 2016, 496, 288-306.	0.4	13
13	On the conditioning of factors in the SR decomposition. <i>Linear Algebra and Its Applications</i> , 2016, 505, 224-244.	0.4	3
14	A fully adaptive rational global Arnoldi method for the model-order reduction of second-order MIMO systems with proportional damping. <i>Mathematics and Computers in Simulation</i> , 2016, 122, 1-19.	2.4	24
15	Breaking Van Loanâ€™s Curse: A Quest for Structure-Preserving Algorithms for Dense Structured Eigenvalue Problems. , 2015, , 3-23.		3
16	Model order reduction for steady aerodynamics of high-lift configurations. <i>CEAS Aeronautical Journal</i> , 2014, 5, 487-500.	0.9	2
17	Preface to the 17th ILAS Conference â€”Pure and Applied Linear Algebra: The New Generationâ€™ Proceedings, Braunschweig, Germany, 2011. <i>Linear Algebra and Its Applications</i> , 2013, 439, 807-808.	0.4	0
18	Model Order Reduction for Unsteady Aerodynamic Applications. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2013, 13, 475-476.	0.2	2

#	ARTICLE	IF	CITATIONS
19	Projection-Based Model Order Reduction for Steady Aerodynamics. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2013, , 151-166.	0.2	10
20	Structured Eigenvalue Problems â€” Structure-Preserving Algorithms, Structured Error Analysis. Discrete Mathematics and Its Applications, 2013, , 1129-1150.	0.1	0
21	Machine tool simulation based on reduced order FE models. Mathematics and Computers in Simulation, 2011, 82, 404-413.	2.4	6
22	On the numerical solution of large-scale sparse discrete-time Riccati equations. Advances in Computational Mathematics, 2011, 35, 119-147.	0.8	29
23	Missing Point Estimation for steady aerodynamic applications. Proceedings in Applied Mathematics and Mechanics, 2011, 11, 839-840.	0.2	2
24	A Hamiltonian Krylovâ€”Schur-type method based on the symplectic Lanczos process. Linear Algebra and Its Applications, 2011, 435, 578-600.	0.4	23
25	Quadratically normal and congruence-normal matrices. Journal of Mathematical Sciences, 2010, 165, 521-532.	0.1	2
26	Proper Orthogonal Decomposition for steady aerodynamic applications. Proceedings in Applied Mathematics and Mechanics, 2010, 10, 635-636.	0.2	12
27	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
28	On the product of two skew-Hamiltonian or two skew-symmetric matrices. Journal of Mathematical Sciences, 2009, 157, 697-700.	0.1	9
29	Simultaneous reduction to block triangular form by a unitary congruence transformation. Journal of Mathematical Sciences, 2008, 150, 1943-1950.	0.1	0
30	A note on an unusual type of polar decomposition. Linear Algebra and Its Applications, 2008, 429, 42-49.	0.4	4
31	Conjugate-normal matrices: A survey. Linear Algebra and Its Applications, 2008, 429, 1425-1441.	0.4	18
32	Some properties of generalized K-centrosymmetric H-matrices. Journal of Computational and Applied Mathematics, 2008, 215, 38-48.	1.1	5
33	On the Solution of the Rational Matrix Equation. Eurasip Journal on Advances in Signal Processing, 2007, 2007, 1.	1.0	5
34	An inverse eigenvalue problem and an associated approximation problem for generalized K-centrohermitian matrices. Journal of Computational and Applied Mathematics, 2007, 206, 578-585.	1.1	7
35	Some observations on the Youla form and conjugate-normal matrices. Linear Algebra and Its Applications, 2007, 422, 29-38.	0.4	20
36	Passivity preserving model reduction via a structured Lanczos method. , 2006, , .		3

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37	SYMMLQ-like procedure for $Ax = b$ where A is a special normal matrix. <i>Calcolo</i> , 2006, 43, 17-37.	0.6	4
38	Numerische Methoden zur passivitätserhaltenden Modellreduktion (Numerical Methods for Passivity) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf</i>	0.4	9
39	Passivity Preserving Model Reduction via a Structured Lanczos Method. , 2006, , .		1
40	Several observations on symplectic, Hamiltonian, and skew-Hamiltonian matrices. <i>Linear Algebra and Its Applications</i> , 2005, 400, 15-29.	0.4	12
41	Computing matrix-vector products with centrosymmetric and centrohermitian matrices. <i>Linear Algebra and Its Applications</i> , 2003, 364, 235-241.	0.4	12
42	An Implicitly Restarted Symplectic Lanczos Method for the Symplectic Eigenvalue Problem. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2001, 22, 682-713.	0.7	16
43	Hamilton and Jacobi come full circle: Jacobi algorithms for structured Hamiltonian eigenproblems. <i>Linear Algebra and Its Applications</i> , 2001, 332-334, 37-80.	0.4	25
44	Error Analysis of the Symplectic Lanczos Method for the Symplectic Eigenvalue Problem. <i>BIT Numerical Mathematics</i> , 2000, 40, 471-496.	1.0	6
45	On the Perturbation Theory for Unitary Eigenvalue Problems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2000, 21, 809-824.	0.7	7
46	SR and SZ algorithms for the symplectic (butterfly) eigenproblem. <i>Linear Algebra and Its Applications</i> , 1999, 287, 41-76.	0.4	16
47	Hamiltonian square roots of skew-Hamiltonian matrices. <i>Linear Algebra and Its Applications</i> , 1999, 287, 125-159.	0.4	42
48	Two connections between the SR and HR eigenvalue algorithms. <i>Linear Algebra and Its Applications</i> , 1998, 272, 17-32.	0.4	14
49	The symplectic eigenvalue problem, the butterfly form, the SR algorithm, and the Lanczos method. <i>Linear Algebra and Its Applications</i> , 1998, 275-276, 19-47.	0.4	22
50	On numerical methods for discrete least-squares approximation by trigonometric polynomials. <i>Mathematics of Computation</i> , 1997, 66, 719-742.	1.1	15
51	A Jacobi-like method for solving algebraic Riccati equations on parallel computers. <i>IEEE Transactions on Automatic Control</i> , 1997, 42, 1071-1084.	3.6	25
52	Inverse unitary eigenproblems and related orthogonal functions. <i>Numerische Mathematik</i> , 1997, 77, 323-345.	0.9	6
53	Error bounds in the isometric Arnoldi process. <i>Journal of Computational and Applied Mathematics</i> , 1997, 86, 53-72.	1.1	7
54	An implicitly restarted symplectic Lanczos method for the Hamiltonian eigenvalue problem. <i>Linear Algebra and Its Applications</i> , 1997, 263, 75-111.	0.4	71

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55	Initializing Newton's method for discrete-time algebraic Riccati equations using the butterfly SZ algorithm. , 0, , .		4