

Peter Benner

List of Publications by Year in Descending Order

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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.

404
papers

5,122
citations

31
h-index

58
g-index

456
ext. papers

6,307
ext. citations

1.6
avg, IF

6.39
L-index

#	Paper	IF	Citations
404	Parallel Algorithms for Tensor Train Arithmetic. <i>SIAM Journal of Scientific Computing</i> , 2022 , 44, C25-C53	2.6	1
403	Efficient and accurate algorithms for solving the Bethe-Peter eigenvalue problem for crystalline systems. <i>Journal of Computational and Applied Mathematics</i> , 2022 , 400, 113650	2.4	0
402	Robust output-feedback stabilization for incompressible flows using low-dimensional H_{∞} -controllers. <i>Computational Optimization and Applications</i> , 2022 , 82, 225-249	1.4	0
401	An Adaptive Sampling Approach for the Reduced Basis Method 2022 , 137-155		
400	A Training Set Subsampling Strategy for the Reduced Basis Method. <i>Journal of Scientific Computing</i> , 2021 , 89, 1	2.3	1
399	Analysis of Switching Strategies for the Optimization of Periodic Chemical Reactions with Controlled Flow-Rate. <i>Springer Proceedings in Mathematics and Statistics</i> , 2021 , 59-69	0.2	
398	Data-Driven model order reduction for problems with parameter-dependent jump-discontinuities. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 387, 114168	5.7	0
397	Tomographic X-ray scattering based on invariant reconstruction: analysis of the 3D nanostructure of bovine bone. <i>Journal of Applied Crystallography</i> , 2021 , 54, 486-497	3.8	0
396	On error estimation for reduced-order modeling of linear non-parametric and parametric systems. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2021 , 55, 561-594	1.8	2
395	Topical Issue Scientific Machine Learning (1/2). <i>GAMM Mitteilungen</i> , 2021 , 44,	1.8	1
394	Introduction to the Special Issue related to the Power-Aware Computing Workshop 2019/PACO 2019. <i>International Journal of High Performance Computing Applications</i> , 2021 , 35, 209-210	1.8	
393	Learning reduced-order dynamics for parametrized shallow water equations from data. <i>International Journal for Numerical Methods in Fluids</i> , 2021 , 93, 2803-2821	1.9	2
392	Structure-preserving interpolation of bilinear control systems. <i>Advances in Computational Mathematics</i> , 2021 , 47, 1	1.6	1
391	Relative perturbation theory for quadratic Hermitian eigenvalue problems. <i>Linear Algebra and Its Applications</i> , 2021 , 618, 97-128	0.9	0
390	Topical issue scientific machine learning (2/2). <i>GAMM Mitteilungen</i> , 2021 , 44, e202100010	1.8	
389	A Stochastic Maximum Principle for Control Problems Constrained by the Stochastic Navier-Stokes Equations. <i>Applied Mathematics and Optimization</i> , 2021 , 84, 1001-1054	1.5	
388	Model order reduction for delay systems by iterative interpolation. <i>International Journal for Numerical Methods in Engineering</i> , 2021 , 122, 684-706	2.4	1

387	Frequency- and time-limited balanced truncation for large-scale second-order systems. <i>Linear Algebra and Its Applications</i> , 2021 , 623, 68-103	0.9	5
386	Implicit higher-order moment matching technique for model reduction of quadratic-bilinear systems. <i>Journal of the Franklin Institute</i> , 2021 , 358, 2015-2038	4	3
385	Clustering-Based Model Order Reduction for Nonlinear Network Systems. <i>International Series of Numerical Mathematics</i> , 2021 , 75-96	0.4	
384	MORLAB—the Model Order Reduction LABORatory. <i>International Series of Numerical Mathematics</i> , 2021 , 393-415	0.4	1
383	Power-to-Chemicals: A Superstructure Problem for Sustainable Syngas Production. <i>Mathematics in Industry</i> , 2021 , 145-168	0.2	0
382	Factorized solution of generalized stable Sylvester equations using many-core GPU accelerators. <i>Journal of Supercomputing</i> , 2021 , 77, 10152-10164	2.5	1
381	Structure-preserving interpolation for model reduction of parametric bilinear systems. <i>Automatica</i> , 2021 , 132, 109799	5.7	1
380	Galerkin trial spaces and Davison-Maki methods for the numerical solution of differential Riccati equations. <i>Applied Mathematics and Computation</i> , 2021 , 410, 126401	2.7	1
379	Regularization of Poisson–Boltzmann Type Equations with Singular Source Terms Using the Range-Separated Tensor Format. <i>SIAM Journal of Scientific Computing</i> , 2021 , 43, A415-A445	2.6	2
378	Matrix Equations, Sparse Solvers: M-M.E.S.S.-2.0.1 Philosophy, Features, and Application for (Parametric) Model Order Reduction. <i>International Series of Numerical Mathematics</i> , 2021 , 369-392	0.4	1
377	Adaptive Interpolatory MOR by Learning the Error Estimator in the Parameter Domain. <i>International Series of Numerical Mathematics</i> , 2021 , 97-117	0.4	0
376	A Rational Even-IRA Algorithm for the Solution of \mathcal{H}_∞ -Even Polynomial Eigenvalue Problems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2021 , 42, 1172-1198	1.5	
375	Gramians, Energy Functionals, and Balanced Truncation for Linear Dynamical Systems with Quadratic Outputs. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	1
374	Interpolation-Based Model Order Reduction for Polynomial Systems. <i>SIAM Journal of Scientific Computing</i> , 2021 , 43, A84-A108	2.6	7
373	MathEnergy —Mathematical Key Technologies for Evolving Energy Grids. <i>Mathematics in Industry</i> , 2021 , 233-262	0.2	0
372	Non-intrusive Time-POD for Optimal Control of a Fixed-Bed Reactor for CO ₂ Methanation. <i>IFAC-PapersOnLine</i> , 2021 , 54, 122-127	0.7	
371	Balanced truncation of linear time-invariant systems over finite-frequency ranges. <i>Advances in Computational Mathematics</i> , 2020 , 46, 1	1.6	2
370	Operator inference for non-intrusive model reduction of systems with non-polynomial nonlinear terms. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 372, 113433	5.7	23

369	High performance solution of skew-symmetric eigenvalue problems with applications in solving the Bethe-Salpeter eigenvalue problem. <i>Parallel Computing</i> , 2020 , 96, 102639	1	2
368	Adaptive basis construction and improved error estimation for parametric nonlinear dynamical systems. <i>International Journal for Numerical Methods in Engineering</i> , 2020 , 121, 5320-5349	2.4	5
367	Model order reduction for bilinear control systems with inhomogeneous initial conditions. <i>International Journal of Control</i> , 2020 , 1-10	1.5	3
366	A Subspace Framework for H_∞ -Norm Minimization. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2020 , 41, 928-956	1.5	2
365	Hankel-norm approximation of large-scale descriptor systems. <i>Advances in Computational Mathematics</i> , 2020 , 46, 1	1.6	3
364	A Numerical Comparison of Different Solvers for Large-Scale, Continuous-Time Algebraic Riccati Equations and LQR Problems. <i>SIAM Journal of Scientific Computing</i> , 2020 , 42, A957-A996	2.6	10
363	MORLAB IA Model Order Reduction Framework in MATLAB and Octave. <i>Lecture Notes in Computer Science</i> , 2020 , 432-441	0.9	
362	Model Order Reduction of Switched Linear Systems with Constrained Switching. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2020 , 41-53	0.3	1
361	Computational Experience with a Modified Newton Solver for Discrete-Time Algebraic Riccati Equations. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 142-167	0.2	1
360	Index-Aware MOR for Gas Transport Networks. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2020 , 191-207	0.3	1
359	Efficient solution of large-scale algebraic Riccati equations associated with index-2 DAEs via the inexact low-rank Newton-ADI method. <i>Applied Numerical Mathematics</i> , 2020 , 152, 338-354	2.5	5
358	Identification of port-Hamiltonian systems from frequency response data. <i>Systems and Control Letters</i> , 2020 , 143, 104741	2.4	6
357	Fast solution of the linearized Poisson-Boltzmann equation with nonaffine parametrized boundary conditions using the reduced basis method. <i>Computing and Visualization in Science</i> , 2020 , 23, 1	1	1
356	Low-rank linear fluid-structure interaction discretizations. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2020 , 100, e201900205	1	1
355	New Gramians for Switched Linear Systems: Reachability, Observability, and Model Reduction. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 2526-2535	5.9	2
354	Low-rank solution of an optimal control problem constrained by random Navier-Stokes equations. <i>International Journal for Numerical Methods in Fluids</i> , 2020 , 92, 1653-1678	1.9	1
353	Reduced-order modelling of parametric systems via interpolation of heterogeneous surrogates. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , 2019 , 6,	2.7	5
352	A new two-sided projection technique for model reduction of quadratic-bilinear descriptor systems. <i>International Journal of Computer Mathematics</i> , 2019 , 96, 1899-1909	1.2	2

351	Computing the density of states for optical spectra of molecules by low-rank and QTT tensor approximation. <i>Journal of Computational Physics</i> , 2019 , 382, 221-239	4.1	
350	A bilinear (mathcal{H}_{2}) model order reduction approach to linear parameter-varying systems. <i>Advances in Computational Mathematics</i> , 2019 , 45, 2241-2271	1.6	6
349	Balanced Truncation for a Special Class of Bilinear Descriptor Systems 2019 , 3, 535-540		1
348	Optimal control problems constrained by the stochastic Navier-Stokes equations with multiplicative Levy noise. <i>Mathematische Nachrichten</i> , 2019 , 292, 1444-1461	0.8	3
347	A Low-Rank Inexact Newton-Krylov Method for Stochastic Eigenvalue Problems. <i>Computational Methods in Applied Mathematics</i> , 2019 , 19, 5-22	1.2	5
346	Comparison of model order reduction methods for optimal sensor placement for thermo-elastic models** An abridged version of the manuscript was submitted to the CIRP sponsored conference on Conference on Thermal Issues in Machine Tools, 2018.View all notes. <i>Engineering Optimization</i> , 2019 , 51, 145-163	2	5
345	Robust Controller versus Numerical Model Uncertainties for Stabilization of Navier-Stokes Equations. <i>IFAC-PapersOnLine</i> , 2019 , 52, 25-29	0.7	2
344	Efficient Error Estimator for Model Order Reduction of Linear Parametric Systems 2019 ,		1
343	Model order reduction of bilinear time-delay systems 2019 ,		1
342	Greedy low-rank algorithm for spatial connectome regression. <i>Journal of Mathematical Neuroscience</i> , 2019 , 9, 9	2.4	3
341	Index-Preserving Model Order Reduction for Differential-Algebraic Systems Arising in Gas Transport Networks. <i>Mathematics in Industry</i> , 2019 , 291-297	0.2	1
340	An Adaptive Method for Interpolating Reduced-Order Models Based on Matching and Continuation of Poles 2019 ,		1
339	Solution formulas for differential Sylvester and Lyapunov equations. <i>Calcolo</i> , 2019 , 56, 1	1.5	10
338	A New Error Estimator for Reduced-Order Modeling of Linear Parametric Systems. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019 , 67, 4848-4859	4.1	10
337	Optimal periodic control of nonlinear chemical reactions with a time-varying flow rate. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2019 , 19, e201900146	0.2	1
336	Model Reduction for Second-Order Dynamical Systems Revisited. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2019 , 19, e201900224	0.2	3
335	Extended and Improved Criss-Cross Algorithms for Computing the Spectral Value Set Abscissa and Radius. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2019 , 40, 1325-1352	1.5	3
334	Cross-Gramian-based dominant subspaces. <i>Advances in Computational Mathematics</i> , 2019 , 45, 2533-2553	1.6	5

333	Periodic switching strategies for an isoperimetric control problem with application to nonlinear chemical reactions. <i>Applied Mathematical Modelling</i> , 2019 , 69, 287-300	4.5	7
332	A GPU-aware mixed-precision solver for low-rank algebraic Riccati equations. <i>Concurrency Computation Practice and Experience</i> , 2019 , 31, e4462	1.4	0
331	Range-Separated Tensor Format for Many-Particle Modeling. <i>SIAM Journal of Scientific Computing</i> , 2018 , 40, A1034-A1062	2.6	6
330	Model reduction by iterative error system approximation. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2018 , 24, 103-118	1	9
329	On reduced input-output dynamic mode decomposition. <i>Advances in Computational Mathematics</i> , 2018 , 44, 1751-1768	1.6	12
328	Model reduction of linear multi-agent systems by clustering with $(\text{varvec{\mathcal{H}}}_2)$ and $(\text{varvec{\mathcal{H}}}_\infty)$ error bounds. <i>Mathematics of Control, Signals, and Systems</i> , 2018 , 30, 1	1.3	7
327	An index-aware parametric model order reduction method for parameterized quadratic differential-algebraic equations. <i>Applied Mathematics and Computation</i> , 2018 , 319, 409-424	2.7	2
326	Exponential stability and stabilization of extended linearizations via continuous updates of Riccati-based feedback. <i>International Journal of Robust and Nonlinear Control</i> , 2018 , 28, 1218-1232	3.6	4
325	Singular perturbation approximation for linear systems with L_2 noise. <i>Stochastics and Dynamics</i> , 2018 , 18, 1850033	0.8	5
324	A linear quadratic control problem for the stochastic heat equation driven by Q-Wiener processes. <i>Journal of Mathematical Analysis and Applications</i> , 2018 , 457, 776-802	1.1	3
323	Low-Rank Eigenvector Compression of Posterior Covariance Matrices for Linear Gaussian Inverse Problems. <i>SIAM-ASA Journal on Uncertainty Quantification</i> , 2018 , 6, 965-989	1.8	4
322	Space-Time Galerkin POD with Application in Optimal Control of Semilinear Partial Differential Equations. <i>SIAM Journal of Scientific Computing</i> , 2018 , 40, A1611-A1641	2.6	6
321	\mathcal{H}_2 -Quasi-Optimal Model Order Reduction for Quadratic-Bilinear Control Systems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2018 , 39, 983-1032	1.5	33
320	L_1 -norm computation for large-scale descriptor systems using structured iterative eigensolvers. <i>Numerical Algebra, Control and Optimization</i> , 2018 , 8, 119-133	1.7	2
319	An Iterative Model Reduction Scheme for Quadratic-Bilinear Descriptor Systems with an Application to Navier-Stokes Equations 2018 , 1-19		1
318	Sparse Model Order Reduction for Electro-Thermal Problems with Many Inputs. <i>Mathematics in Industry</i> , 2018 , 189-202	0.2	
317	Optimal Control of a Stefan Problem Fully Coupled with Incompressible Navier-Stokes Equations and Mesh Movement. <i>Analele Stiintifice Ale Universitatii Ovidius Constanta, Seria Matematica</i> , 2018 , 26, 11-40	0.4	1
316	A Direct Index 1 DAE Model of Gas Networks 2018 , 99-119		2

315	RADI: a low-rank ADI-type algorithm for large scale algebraic Riccati equations. <i>Numerische Mathematik</i> , 2018 , 138, 301-330	2.2	21
314	Numerical solution of the infinite-dimensional LQR problem and the associated Riccati differential equations. <i>Journal of Numerical Mathematics</i> , 2018 , 26, 1-20	3.4	14
313	Linear Low-Rank Parameter-Dependent Fluid-Structure Interaction Discretization in 2D. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2018 , 18, e201800178	0.2	
312	Low-Order Control Design using a Reduced-Order Model with a Stability Constraint on the Full-Order Model 2018 ,		2
311	On an Invariance Principle for the Solution Space of the Differential Riccati Equation. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2018 , 18, e201800031	0.2	2
310	Synchronization and Aggregation of Nonlinear Power Systems with Consideration of Bus Network Structures 2018 ,		1
309	Model Reduction of Descriptor Systems with the MORLAB Toolbox. <i>IFAC-PapersOnLine</i> , 2018 , 51, 547-552.7	2.7	3
308	Interpolation of Reduced-Order Models Based on Modal Analysis 2018 ,		5
307	Interpolatory model reduction for quadratic-bilinear systems using error estimators. <i>Engineering Computations</i> , 2018 , 36, 25-44	1.4	2
306	Balancing Related Model Reduction with the MORLAB Toolbox. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2018 , 18, e201800083	0.2	2
305	Control design for a 2 ? 2 hyperbolic system with application to preferential crystallization. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2018 , 18, e201800455	0.2	1
304	Improving the Performance of Numerical Algorithms for the Bethe-Salpeter Eigenvalue Problem. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2018 , 18, e201800255	0.2	1
303	Model reduction of complex dynamical systems. <i>Advances in Computational Mathematics</i> , 2018 , 44, 1687-1691	1.6	1
302	Faster and More Accurate Computation of the $\ H\ _{\infty}$ Norm via Optimization. <i>SIAM Journal of Scientific Computing</i> , 2018 , 40, A3609-A3635	2.6	6
301	Gas Network Benchmark Models. <i>Differential-algebraic Equations Forum</i> , 2018 , 171-197	0.6	3
300	Some remarks on the complex J-symmetric eigenproblem. <i>Linear Algebra and Its Applications</i> , 2018 , 544, 407-442	0.9	9
299	Trigonometric spline and spectral bounds for the solution of linear time-periodic systems. <i>Journal of Applied Mathematics and Computing</i> , 2017 , 54, 127-157	1.8	1
298	Dual Pairs of Generalized Lyapunov Inequalities and Balanced Truncation of Stochastic Linear Systems. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 782-791	5.9	16

297	Fast iterative solution of the Bethe-Salpeter eigenvalue problem using low-rank and QTT tensor approximation. <i>Journal of Computational Physics</i> , 2017 , 334, 221-239	4.1	13
296	Implicit Volterra series interpolation for model reduction of bilinear systems. <i>Journal of Computational and Applied Mathematics</i> , 2017 , 316, 15-28	2.4	7
295	Krylov subspace-based model reduction for a class of bilinear descriptor systems. <i>Journal of Computational and Applied Mathematics</i> , 2017 , 315, 303-318	2.4	7
294	Structure preserving iterative methods for periodic projected Lyapunov equations and their application in model reduction of periodic descriptor systems. <i>Numerical Algorithms</i> , 2017 , 76, 881-904	2.1	5
293	Extending the Gauss-Huard method for the solution of Lyapunov matrix equations and matrix inversion. <i>Concurrency Computation Practice and Experience</i> , 2017 , 29, e4076	1.4	1
292	POD-DEIM for efficient reduction of a dynamic 2D catalytic reactor model. <i>Computers and Chemical Engineering</i> , 2017 , 106, 777-784	4	9
291	Adaptive POD-DEIM basis construction and its application to a nonlinear population balance system. <i>AIChE Journal</i> , 2017 , 63, 3832-3844	3.6	5
290	Model Order Reduction for Differential-Algebraic Equations: A Survey. <i>Differential-algebraic Equations Forum</i> , 2017 , 107-160	0.6	36
289	Adaptive Symmetric Interior Penalty Galerkin Method for Boundary Control Problems. <i>SIAM Journal on Numerical Analysis</i> , 2017 , 55, 1101-1133	2.4	4
288	Moment-matching based model reduction for Navier-Stokes type quadratic-bilinear descriptor systems. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2017 , 97, 1252-1267	1	9
287	An H_2 -type error bound for balancing-related model order reduction of linear systems with L_2 noise. <i>Systems and Control Letters</i> , 2017 , 105, 1-5	2.4	9
286	An isoperimetric optimal control problem for a non-isothermal chemical reactor with periodic inputs. <i>Chemical Engineering Science</i> , 2017 , 161, 206-214	4.4	16
285	Some posteriori error bounds for reduced-order modelling of (non-)parametrized linear systems. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2017 , 51, 2127-2158	1.8	13
284	Chapter 6: Model Order Reduction Based on System Balancing 2017 , 261-295		
283	Chapter 9: Comparison of Methods for Parametric Model Order Reduction of Time-Dependent Problems 2017 , 377-407		7
282	Computing the Stochastic $\ H\ _{\infty}$ -Norm by a Newton Iteration 2017 , 1, 92-97		1
281	Large-Scale Computation of $\ L\ _{\infty}$ -Norms by a Greedy Subspace Method. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2017 , 38, 1496-1516	1.5	20
280	Accelerating optimization and uncertainty quantification of nonlinear SMB chromatography using reduced-order models. <i>Computers and Chemical Engineering</i> , 2017 , 96, 237-247	4	3

279	Convergence of Approximations to Riccati-based Boundary-feedback Stabilization of Laminar Flows 1 The work was supported by the High-End Foreign Expert Program (GDT20153100033) of the State Administration of Foreign Experts Affairs (SAFEA), P.R. China.. <i>IFAC-PapersOnLine</i> , 2017 , 50, 12296-12300	0.7	4
278	A Greedy Subspace Method for Computing the L _∞ Norm. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2017 , 17, 751-752	0.2	2
277	Towards Riccati-Feedback Control of Complex Flows with Moving Interfaces. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2017 , 17, 769-770	0.2	
276	On the transformation formulas of the Hankel-norm approximation. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2017 , 17, 823-824	0.2	1
275	Construction of a Lyapunov functional for a class of controlled population balance models. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2017 , 17, 827-828	0.2	2
274	Nonlinear feedback stabilization of incompressible flows via updated Riccati-based gains 2017 ,		2
273	Truncated Gramians for Bilinear Systems and Their Advantages in Model Order Reduction. <i>Modeling, Simulation and Applications</i> , 2017 , 285-300	1.1	4
272	Solving Sparse Differential Riccati Equations on Hybrid CPU-GPU Platforms. <i>Lecture Notes in Computer Science</i> , 2017 , 116-132	0.9	1
271	Parametric Model Order Reduction for Electro-Thermal Coupled Problems with Many Inputs. <i>Mathematics in Industry</i> , 2017 , 263-270	0.2	
270	Reduced Basis Approximations for Maxwell's Equations in Dispersive Media. <i>Modeling, Simulation and Applications</i> , 2017 , 107-119	1.1	1
269	Reduced Representation of Power Grid Models. <i>Mathematics in Industry</i> , 2017 , 87-134	0.2	
268	Robust Stabilization of Laminar Flows in Varying Flow Regimes. <i>IFAC-PapersOnLine</i> , 2016 , 49, 31-36	0.7	9
267	Numerical solution to low rank perturbed Lyapunov equations by the sign function method. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2016 , 16, 723-724	0.2	1
266	Nanoelectronic COupled problems solutions - nanoCOPS: modelling, multirate, model order reduction, uncertainty quantification, fast fault simulation. <i>Journal of Mathematics in Industry</i> , 2016 , 7,	2.9	2
265	Stability preserving model reduction for linearly coupled linear time-invariant systems. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2016 , 16, 817-818	0.2	
264	Time-varying stabilization of a class of driftless systems satisfying second-order controllability conditions 2016 ,		4
263	Parametric modeling and model order reduction for (electro-)thermal analysis of nanoelectronic structures. <i>Journal of Mathematics in Industry</i> , 2016 , 6,	2.9	3
262	Semi-active damping optimization of vibrational systems using the parametric dominant pole algorithm. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2016 , 96, 604-619	1	5

261	Algorithm 961. <i>ACM Transactions on Mathematical Software</i> , 2016 , 42, 1-26	2.3	8
260	An inexact low-rank Newton-ADI method for large-scale algebraic Riccati equations. <i>Applied Numerical Mathematics</i> , 2016 , 108, 125-142	2.5	14
259	Positive operators and stable truncation. <i>Linear Algebra and Its Applications</i> , 2016 , 498, 74-87	0.9	10
258	Low-rank Newton-ADI methods for large nonsymmetric algebraic Riccati equations. <i>Journal of the Franklin Institute</i> , 2016 , 353, 1147-1167	4	7
257	Frequency-Limited Balanced Truncation with Low-Rank Approximations. <i>SIAM Journal of Scientific Computing</i> , 2016 , 38, A471-A499	2.6	27
256	Low-rank solvers for unsteady Stokes-Brinkman optimal control problem with random data. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016 , 304, 26-54	5.7	25
255	Modeling Glyphosate aerial spray drift at the Ecuador-Colombia border. <i>Applied Mathematical Modelling</i> , 2016 , 40, 373-387	4.5	3
254	On the solution of large-scale algebraic Riccati equations by using low-dimensional invariant subspaces. <i>Linear Algebra and Its Applications</i> , 2016 , 488, 430-459	0.9	20
253	Balancing based model reduction for structured index-2 unstable descriptor systems with application to flow control. <i>Numerical Algebra, Control and Optimization</i> , 2016 , 6, 1-20	1.7	15
252	Parametric and Reduced-Order Modeling for the Thermal Analysis of Nanoelectronic Structures. <i>Mathematics in Industry</i> , 2016 , 155-163	0.2	1
251	Revisiting the Gauss-Huard Algorithm for the Solution of Linear Systems on Graphics Accelerators. <i>Lecture Notes in Computer Science</i> , 2016 , 505-514	0.9	3
250	Nonlinear Model Order Reduction for Catalytic Tubular Reactors. <i>Computer Aided Chemical Engineering</i> , 2016 , 38, 2373-2378	0.6	1
249	A Parallel Multi-threaded Solver for Symmetric Positive Definite Bordered-Band Linear Systems. <i>Lecture Notes in Computer Science</i> , 2016 , 96-105	0.9	
248	Reduced Basis Modeling for Uncertainty Quantification of Electromagnetic Problems in Stochastically Varying Domains. <i>Mathematics in Industry</i> , 2016 , 215-222	0.2	
247	Tuning the Blocksize for Dense Linear Algebra Factorization Routines with the Roofline Model. <i>Lecture Notes in Computer Science</i> , 2016 , 18-29	0.9	
246	Output Error Estimates in Reduced Basis Methods for Time-Harmonic Maxwell's Equations. <i>Lecture Notes in Computational Science and Engineering</i> , 2016 , 351-358	0.3	1
245	Automatic Generation of Reduced-Order Models for Linear Parametric Systems. <i>Mathematics in Industry</i> , 2016 , 811-818	0.2	
244	Krylov subspace methods for model reduction of quadratic-bilinear systems. <i>IET Control Theory and Applications</i> , 2016 , 10, 2010-2018	2.5	15

243	Reduced-order modeling of index-1 vibrational systems using interpolatory projections 2016 ,		1
242	Local steering problem for a class of control-affine systems with application to continuous crystallization processes. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2016 , 16, 831-832	0.2	2
241	A reduced basis approach for calculation of the Bethe-Balpeter excitation energies by using low-rank tensor factorisations** Dedicated to Prof. Andreas Savin on occasion of his 65th birthday.View all notes. <i>Molecular Physics</i> , 2016 , 114, 1148-1161	1.7	11
240	Computation of thermo-elastic deformations on machine tools a study of numerical methods. <i>Production Engineering</i> , 2016 , 10, 253-263	1.9	5
239	Block-Diagonal Preconditioning for Optimal Control Problems Constrained by PDEs with Uncertain Inputs. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2016 , 37, 491-518	1.5	15
238	Structure preserving model order reduction of large sparse second-order index-1 systems and application to a mechatronics model. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2016 , 22, 509-523	1	12
237	Multipoint interpolation of Volterra series and H2-model reduction for a family of bilinear descriptor systems. <i>Systems and Control Letters</i> , 2016 , 97, 1-11	2.4	9
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