

The Scaling and Squaring Method for the Matrix Exponential

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Citation Report

#	ARTICLE	IF	CITATIONS
1	ANN bandpass filters for electro-optical implementation. , 0, , .		4
3	Optimal Control of Robotic Grasping. , 1992, , .		12
4	Programmable processor for on-line computing of inverse Haar transform. Electronics Letters, 2001, 37, 1050.	0.5	3
5	Efficient algorithms for the matrix cosine and sine. Numerical Algorithms, 2005, 40, 383-400.	1.1	37
6	Assessment of the tyre footprint shape. , 2005, , .		0
7	Discretization of Nonlinear systems with Delayed Multi-Input via Taylor Series and Scaling and Squaring Technique. , 2006, , .		2
8	Analysis of Projection Methods for Rational Function Approximation to the Matrix Exponential. SIAM Journal on Numerical Analysis, 2006, 44, 613-635.	1.1	62
9	Real-time soft shadows in dynamic scenes using spherical harmonic exponentiation. ACM Transactions on Graphics, 2006, 25, 977-986.	4.9	74
10	Unidirectional magnetic-field gradients and geometric-phase errors during Fourier encoding using orthogonal ac fields. Physical Review B, 2006, 74, .	1.1	11
11	JOINT DISTRIBUTIONS OF PORTFOLIO LOSSES AND EXOTIC PORTFOLIO PRODUCTS. International Journal of Theoretical and Applied Finance, 2007, 10, 733-748.	0.2	7
12	Numerical Integration for Future Vehicle Path Prediction. Proceedings of the American Control Conference, 2007, , .	0.0	8
13	A two-dimensional inverse parabolic potential within the Lindblad theory for application in nuclear reactions. Journal of Physics G: Nuclear and Particle Physics, 2007, 34, 441-450.	1.4	7
14	JOINT DISTRIBUTIONS OF PORTFOLIO LOSSES AND EXOTIC PORTFOLIO PRODUCTS. , 2007, , 141-156.		1
15	Geometric Means in a Novel Vector Space Structure on Symmetric Positiveâ€œDefinite Matrices. SIAM Journal on Matrix Analysis and Applications, 2007, 29, 328-347.	0.7	573
16	Stochastic Path Prediction using the Unscented Transform with Numerical Integration. , 2007, , .		10
17	Multi-sensor data transmission based on CPLD. , 2007, , .		0
18	Polynomially scaling spin dynamics simulation algorithm based on adaptive state-space restriction. Journal of Magnetic Resonance, 2007, 189, 241-250.	1.2	77
19	An efficient method for calculation of the MM fiber frequency response in the presence of mode coupling. Optical and Quantum Electronics, 2007, 38, 1195-1201.	1.5	12

#	ARTICLE	IF	CITATIONS
20	An error analysis of the modified scaling and squaring method. Computers and Mathematics With Applications, 2007, 53, 1293-1305.	1.4	11
21	Entrywise relative perturbation bounds for exponentials of essentially non-negative matrices. Numerische Mathematik, 2008, 110, 393-403.	0.9	4
22	Implementation of a restarted Krylov subspace method for the evaluation of matrix functions. Linear Algebra and Its Applications, 2008, 429, 2293-2314.	0.4	67
23	A Precise Time-Step Integration Method for Transient Analysis of Lossy Nonuniform Transmission Lines. IEEE Transactions on Electromagnetic Compatibility, 2008, 50, 166-174.	1.4	40
24	Acceleration Techniques for Approximating the Matrix Exponential Operator. SIAM Journal on Matrix Analysis and Applications, 2008, 30, 657-683.	0.7	54
25	Efficient Simulation of the Wishart Model. SSRN Electronic Journal, 0, , .	0.4	9
26	Continuously Monitored Barrier Options Under Markov Processes. SSRN Electronic Journal, 0, , .	0.4	10
27	Learning averages over the lie group of unitary matrices. , 2009, , .		0
28	A new proof of Jordan canonical forms of a square matrix. Linear and Multilinear Algebra, 2009, 57, 369-386.	0.5	2
29	Algorithm 894. ACM Transactions on Mathematical Software, 2009, 36, 1-20.	1.6	3
30	Robust control of resistive wall modes using pseudospectra. New Journal of Physics, 2009, 11, 053015.	1.2	7
31	Interpolation among reduced-order matrices to obtain parameterized models for design, optimization and probabilistic analysis. International Journal for Numerical Methods in Fluids, 2010, 63, 207-230.	0.9	51
32	A Fast and Log-Euclidean Polyaffine Framework for Locally Linear Registration. Journal of Mathematical Imaging and Vision, 2009, 33, 222-238.	0.8	93
33	The scaling and modified squaring method for matrix functions related to the exponential. Applied Numerical Mathematics, 2009, 59, 783-799.	1.2	41
34	Determination of a matrix function using the divided difference method of Newton and the interpolation technique of Hermite. Journal of Computational and Applied Mathematics, 2009, 231, 67-81.	1.1	7
35	Comparison of methods for evaluating functions of a matrix exponential. Applied Numerical Mathematics, 2009, 59, 468-486.	1.2	21
36	An Algorithm to Compute Averages on Matrix Lie Groups. IEEE Transactions on Signal Processing, 2009, 57, 4734-4743.	3.2	52
37	Error Estimates and Evaluation of Matrix Functions via the Faber Transform. SIAM Journal on Numerical Analysis, 2009, 47, 3849-3883.	1.1	107

#	ARTICLE	IF	CITATIONS
38	Computing the Fréchet Derivative of the Matrix Exponential, with an Application to Condition Number Estimation. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2009, 30, 1639-1657.	0.7	57
39	Technique for the numerical analysis of the riblet effect on temporal stability of plane flows. <i>Computational Mathematics and Mathematical Physics</i> , 2010, 50, 1055-1070.	0.2	14
40	Fast computation of optimal disturbances for duct flows with a given accuracy. <i>Computational Mathematics and Mathematical Physics</i> , 2010, 50, 1914-1924.	0.2	7
41	Magnetization dynamics in isolated Ising chains. <i>Journal of Experimental and Theoretical Physics</i> , 2010, 110, 360-365.	0.2	6
42	The complex step approximation to the Fréchet derivative of a matrix function. <i>Numerical Algorithms</i> , 2010, 53, 133-148.	1.1	41
43	Normalized natural gradient in independent component analysis. <i>Signal Processing</i> , 2010, 90, 2773-2777.	2.1	14
44	The Immersed Structural Potential Method for haemodynamic applications. <i>Journal of Computational Physics</i> , 2010, 229, 8613-8641.	1.9	47
45	Implementation of approach to compute the Lyapunov characteristic exponents for continuous dynamical systems to higher dimensions. <i>Journal of the Franklin Institute</i> , 2010, 347, 315-338.	1.9	7
46	Efficient computation of radiances for optically thin media by Padé approximants. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 1885-1899.	1.1	5
47	Matrix exponentials and parallel prefix computation in a quantum control problem. <i>Parallel Computing</i> , 2010, 36, 359-369.	1.3	9
48	Exponentials of skew-symmetric matrices and logarithms of orthogonal matrices. <i>Journal of Computational and Applied Mathematics</i> , 2010, 233, 2867-2875.	1.1	17
49	Computing matrix functions. <i>Acta Numerica</i> , 2010, 19, 159-208.	6.3	72
50	Rational approximation of the unitary exponential. <i>IMA Journal of Numerical Analysis</i> , 2010, 30, 512-524.	1.5	0
51	A New Scaling and Squaring Algorithm for the Matrix Exponential. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2010, 31, 970-989.	0.7	215
52	ACOUSTIC PROPAGATION IN AN UNCERTAIN WAVEGUIDE ENVIRONMENT USING STOCHASTIC BASIS EXPANSIONS. <i>Journal of Computational Acoustics</i> , 2010, 18, 397-441.	1.0	27
53	Solving the Matrix Differential Riccati Equation: A Lyapunov Equation Approach. <i>IEEE Transactions on Automatic Control</i> , 2010, 55, 191-194.	3.6	70
54	Shift-Invert Arnoldi Approximation to the Toeplitz Matrix Exponential. <i>SIAM Journal of Scientific Computing</i> , 2010, 32, 774-792.	1.3	45
55	Cooperative Vehicular Safety Applications. <i>IEEE Control Systems</i> , 2010, 30, 38-53.	1.0	125

#	ARTICLE	IF	CITATIONS
56	Solving the singularly perturbed matrix differential Riccati equation: A Lyapunov equation approach. , 2010, , .		0
57	Finite Horizon Optimal Control of Singularly Perturbed Systems: A Differential Lyapunov Equation Approach \$ \$. IEEE Transactions on Automatic Control, 2010, 55, 2148-2152.	3.6	12
58	Computing the Action of the Matrix Exponential, with an Application to Exponential Integrators. SIAM Journal of Scientific Computing, 2011, 33, 488-511.	1.3	321
59	A Schurâ€“PadÃ© Algorithm for Fractional Powers of a Matrix. SIAM Journal on Matrix Analysis and Applications, 2011, 32, 1056-1078.	0.7	49
60	A Low-Rank Approximation for Computing the Matrix Exponential Norm. SIAM Journal on Matrix Analysis and Applications, 2011, 32, 349-363.	0.7	21
61	QTT approximation of elliptic solution operators in higher dimensions. Russian Journal of Numerical Analysis and Mathematical Modelling, 2011, 26, .	0.2	32
62	From Efficient Symplectic Exponentiation of Matrices to Symplectic Integration of High-dimensional Hamiltonian Systems with Slowly Varying Quadratic Stiff Potentials. Applied Mathematics Research EXpress, 2011, 2011, 242-280.	1.0	9
63	Exponential locality preserving projections for small sample size problem. Neurocomputing, 2011, 74, 3654-3662.	3.5	44
64	Improved Potterâ€“Andersonâ€“Moore algorithm for the differential Riccati equation. Applied Mathematics and Computation, 2011, 218, 4641-4646.	1.4	6
65	Discrete-space time-fractional processes. Fractional Calculus and Applied Analysis, 2011, 14, 201-232.	1.2	6
66	A Fast Algorithm for Lyapunov Exponents Calculation in Piecewise Linear Systems. , 2011, , .		0
67	Accurate matrix exponential computation to solve coupled differential models in engineering. Mathematical and Computer Modelling, 2011, 54, 1835-1840.	2.0	19
68	Numerical solutions to the time-dependent Bloch equations revisited. Magnetic Resonance Imaging, 2011, 29, 126-131.	1.0	72
69	Solving differential matrix Riccati equations by a piecewise-linearized method based on diagonal PadÃ© approximants. Computer Physics Communications, 2011, 182, 669-678.	3.0	1
70	Dynamic responses of composite H-beams with different elastic couplings. Journal of Mechanical Science and Technology, 2011, 25, 2505-2517.	0.7	5
71	Shift-invert Lanczos method for the symmetric positive semidefinite Toeplitz matrix exponential. Numerical Linear Algebra With Applications, 2011, 18, 603-614.	0.9	20
72	Efficient orthogonal matrix polynomial based method for computing matrix exponential. Applied Mathematics and Computation, 2011, 217, 6451-6463.	1.4	22
73	Generalized equation for describing the magnetization in spoiled gradient-echo imaging. Magnetic Resonance Imaging, 2011, 29, 723-730.	1.0	8

#	ARTICLE	IF	CITATIONS
74	An analytical study of sound transmission through unbounded panels of functionally graded materials. <i>Journal of Sound and Vibration</i> , 2011, 330, 1153-1165.	2.1	30
75	Orthogonal polynomial expansions for the matrix exponential. <i>Linear Algebra and Its Applications</i> , 2011, 435, 537-559.	0.4	12
76	Slow dynamics of interacting antiferromagnetic nanoparticles. <i>Physical Review B</i> , 2011, 84, .	1.1	11
77	A Markov-Chain Model for the Analysis of High-Resolution Enzymatically 18O-Labeled Mass Spectra. <i>Statistical Applications in Genetics and Molecular Biology</i> , 2011, 10, Article 1.	0.2	5
78	Diffeomorphic Registration of Images with Variable Contrast Enhancement. <i>International Journal of Biomedical Imaging</i> , 2011, 2011, 1-16.	3.0	70
79	Decomposition of unitary matrices for finding quantum circuits: Application to molecular Hamiltonians. <i>Journal of Chemical Physics</i> , 2011, 134, 144112.	1.2	45
80	Low-frequency linear-mode regimes in the tokamak scrape-off layer. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	23
81	Stochastic epidemic models revisited: analysis of some continuous performance measures. <i>Journal of Biological Dynamics</i> , 2012, 6, 189-211.	0.8	14
82	Complexity reduction of stochastic master equation simulation based on Kronecker product analysis. , 2012, , .		0
83	Behavior of the magnetization in spin-locking magnetic resonance imaging using numerical solutions to the time-dependent Bloch equations. <i>Physics in Medicine and Biology</i> , 2012, 57, N481-N492.	1.6	12
84	Circuit simulation via matrix exponential method for stiffness handling and parallel processing. , 2012, , .		27
85	Hypersonic Aeroelastic Stability Boundary Computations Using Radial Basis Functions for Mesh Deformation. , 2012, , .		9
86	POWER SERIES SOLUTIONS OF SINGULAR LINEAR SYSTEMS. <i>International Journal of Mathematics</i> , 2012, 23, 1250034.	0.2	0
87	Algorithm 919. <i>ACM Transactions on Mathematical Software</i> , 2012, 38, 1-19.	1.6	138
88	Time-Domain Analysis of Large-Scale Circuits by Matrix Exponential Method With Adaptive Control. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2012, 31, 1180-1193.	1.9	31
89	Relaxation Matrix Analysis of Spin Diffusion for the NMR Structure Calculation with eNOEs. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 3483-3492.	2.3	47
90	Multiconfiguration Self-Consistent Field and Multireference Configuration Interaction Methods and Applications. <i>Chemical Reviews</i> , 2012, 112, 108-181.	23.0	559
91	Efficient mixed rational and polynomial approximation of matrix functions. <i>Applied Mathematics and Computation</i> , 2012, 218, 11938-11946.	1.4	4

#	ARTICLE	IF	CITATIONS
92	Time-domain simulation of acoustic wave propagation and interaction with flexible structures using Chebyshev collocation method. Journal of Sound and Vibration, 2012, 331, 4343-4358.	2.1	9
93	A numerical algorithm for pricing electricity derivatives for jump-diffusion processes based on continuous time lattices. European Journal of Operational Research, 2012, 222, 361-368.	3.5	13
94	An Output Stabilization Problem of Distributed Linear Systems Approaches and Simulations. Intelligent Control and Automation, 2012, 03, 159-167.	1.0	3
95	Computing the maximum amplification of the solution norm of differential-algebraic systems. Computational Mathematics and Modeling, 2012, 23, 216-227.	0.2	5
96	A new method for computing the matrix exponential operation based on vector valued rational approximations. Journal of Computational and Applied Mathematics, 2012, 236, 2306-2316.	1.1	2
97	The physics of communicability in complex networks. Physics Reports, 2012, 514, 89-119.	10.3	242
98	CONTINUOUSLY MONITORED BARRIER OPTIONS UNDER MARKOV PROCESSES. Mathematical Finance, 2013, 23, 1-38.	0.9	73
99	Deformable Medical Image Registration: A Survey. IEEE Transactions on Medical Imaging, 2013, 32, 1153-1190.	5.4	1,094
100	Process-Variation and Temperature Aware SoC Test Scheduling Technique. Journal of Electronic Testing: Theory and Applications (JETTA), 2013, 29, 499-520.	0.9	11
101	Matrix Information Geometry. , 2013, , .		49
102	The Design of Intervention Trials Involving Recurrent and Terminal Events. Statistics in Biosciences, 2013, 5, 261-285.	0.6	4
103	Aerothermoelastic and Aeroelastic Studies of Hypersonic Vehicles using CFD. , 2013, , .		2
104	Chaos and Complex Systems. , 2013, , .		2
105	Control of hybrid nan positioning systems for trajectory-tracking applications. Mechatronics, 2013, 23, 617-629.	2.0	10
106	A modal precise integration method for the calculation of footbridge vibration response. Computers and Structures, 2013, 128, 116-127.	2.4	15
107	Stochastic Model Simulation Using Kronecker Product Analysis and Zassenhaus Formula Approximation. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2013, 10, 1125-1136.	1.9	2
108	Exponential Local Discriminant Embedding and Its Application to Face Recognition. IEEE Transactions on Cybernetics, 2013, 43, 921-934.	6.2	60
109	Computing matrix functions arising in engineering models with orthogonal matrix polynomials. Mathematical and Computer Modelling, 2013, 57, 1738-1743.	2.0	11

#	ARTICLE	IF	CITATIONS
110	Forecasting exact scores in National Football League games. <i>International Journal of Forecasting</i> , 2013, 29, 122-130.	3.9	27
111	Ranking hubs and authorities using matrix functions. <i>Linear Algebra and Its Applications</i> , 2013, 438, 2447-2474.	0.4	106
112	Calculation of intake retention functions for intake of activated dusts in the fusion reactors. <i>Fusion Engineering and Design</i> , 2013, 88, 2714-2718.	1.0	1
113	Efficient computation of the matrix cosine. <i>Applied Mathematics and Computation</i> , 2013, 219, 7575-7585.	1.4	13
114	Numerical solution to time-dependent 4D inviscid Burgers' equations. <i>Engineering Analysis With Boundary Elements</i> , 2013, 37, 637-645.	2.0	16
115	Lie-group interpolation and variational recovery for internal variables. <i>Computational Mechanics</i> , 2013, 52, 1281-1299.	2.2	34
116	The solution of two-dimensional advection-diffusion equations via operational matrices. <i>Applied Numerical Mathematics</i> , 2013, 72, 172-187.	1.2	15
117	Exponential Taylor methods: Analysis and implementation. <i>Computers and Mathematics With Applications</i> , 2013, 65, 487-499.	1.4	14
118	Comparative performance of exponential, implicit, and explicit integrators for stiff systems of ODEs. <i>Journal of Computational and Applied Mathematics</i> , 2013, 241, 45-67.	1.1	65
119	Local Linearization-Runge-Kutta methods: A class of A-stable explicit integrators for dynamical systems. <i>Mathematical and Computer Modelling</i> , 2013, 57, 720-740.	2.0	13
120	Computing exponentials of essentially non-negative matrices entrywise to high relative accuracy. <i>Mathematics of Computation</i> , 2013, 82, 1577-1596.	1.1	5
121	CodonPhyML: Fast Maximum Likelihood Phylogeny Estimation under Codon Substitution Models. <i>Molecular Biology and Evolution</i> , 2013, 30, 1270-1280.	3.5	99
122	Some aspects in estimating warranty and post-warranty repair demands. <i>Naval Research Logistics</i> , 2013, 60, 499-511.	1.4	23
124	Reducing the influence of tiny normwise relative errors on performance profiles. <i>ACM Transactions on Mathematical Software</i> , 2013, 39, 1-11.	1.6	9
125	AN UNCONDITIONAL STABLE 1D-FDTD METHOD FOR MODELING TRANSMISSION LINES BASED ON PRECISE SPLIT-STEP SCHEME. <i>Progress in Electromagnetics Research</i> , 2013, 135, 245-260.	1.6	19
126	Fast Model Predictive Control Method for Large-Scale Structural Dynamic Systems: Computational Aspects. <i>Shock and Vibration</i> , 2014, 2014, 1-13.	0.3	7
127	Nonlinear Evolution Equations: Analysis and Numerics. <i>Oberwolfach Reports</i> , 2014, 11, 781-868.	0.0	0
128	Validation of an Improved "Diffeomorphic Demons" Algorithm for Deformable Image Registration in Image-Guided Radiation Therapy. <i>Bio-Medical Materials and Engineering</i> , 2014, 24, 373-382.	0.4	2

#	ARTICLE	IF	CITATIONS
129	Semi-supervised Domain Adaptation on Manifolds. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 2240-2249.	7.2	54
130	Thermal transport through ac-driven transparent Josephson weak links. Physical Review B, 2014, 90, .	1.1	4
131	Semi-discrete numeric solution for the non-stationary heat equation using mimetic techniques. European Journal of Physics, 2014, 35, 065013.	0.3	1
132	Role of centrality for the identification of influential spreaders in complex networks. Physical Review E, 2014, 90, 032812.	0.8	119
133	Implementation of Parallel Adaptive-Krylov Exponential Solvers for Stiff Problems. SIAM Journal of Scientific Computing, 2014, 36, C591-C616.	1.3	9
134	A physically and geometrically nonlinear scaledâ€‘boundaryâ€‘based finite element formulation for fracture in elastomers. International Journal for Numerical Methods in Engineering, 2014, 99, 966-999.	1.5	36
135	A Moment-Matching Arnoldi Iteration for Linear Combinations of φ Functions. SIAM Journal on Matrix Analysis and Applications, 2014, 35, 1344-1363.	0.7	1
136	Uncertainty in MR tracer kinetic parameters and water exchange rates estimated from T_1 -weighted dynamic contrast enhanced MRI. Magnetic Resonance in Medicine, 2014, 72, 534-545.	1.9	13
137	A new class of split exponential propagation iterative methods of Rungeâ€‘Kutta type (sEPIRK) for semilinear systems of ODEs. Journal of Computational Physics, 2014, 269, 40-60.	1.9	25
138	Stacked-Bloch-wave electron diffraction simulations using GPU acceleration. Ultramicroscopy, 2014, 141, 32-37.	0.8	21
139	On the stability of some algorithms for computing the action of the matrix exponential. Linear Algebra and Its Applications, 2014, 443, 1-20.	0.4	9
140	Accurate and efficient matrix exponential computation. International Journal of Computer Mathematics, 2014, 91, 97-112.	1.0	13
141	Product approximations for a class of quantum anharmonic oscillators. Zeitschrift Fur Angewandte Mathematik Und Physik, 2014, 65, 613-643.	0.7	0
142	The Matrix Unwinding Function, with an Application to Computing the Matrix Exponential. SIAM Journal on Matrix Analysis and Applications, 2014, 35, 88-109.	0.7	13
143	Efficient full Newtonâ€‘Raphson technique for the solution of molecular integral equations â€‘ example of the SPC/E water-like system. Molecular Physics, 2014, 112, 1246-1256.	0.8	15
144	Locally Linearized Runge Kutta method of Dormand and Prince. Applied Mathematics and Computation, 2014, 247, 589-606.	1.4	6
145	Exponential-Krylov methods for ordinary differential equations. Journal of Computational Physics, 2014, 278, 31-46.	1.9	12
146	A higher order steelâ€‘concrete composite beam model. Engineering Structures, 2014, 80, 260-273.	2.6	10

#	ARTICLE	IF	CITATIONS
147	A reduced-order matrices fitting scheme with Log-Euclidean metrics for fast approximation of dynamic response of parametric structural systems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014, 269, 1-19.	3.4	2
148	Hypersonic Aeroelastic and Aerothermoelastic Studies Using Computational Fluid Dynamics. <i>AIAA Journal</i> , 2014, 52, 2062-2078.	1.5	41
149	Implementing state-space methods for multizone contaminant transport. <i>Building and Environment</i> , 2014, 71, 131-139.	3.0	12
150	Cutting the Wires: Modularization of Cellular Networks for Experimental Design. <i>Biophysical Journal</i> , 2014, 106, 321-331.	0.2	6
151	Translation and integration of numerical atomic orbitals in linear molecules. <i>Journal of Chemical Physics</i> , 2014, 140, 064112.	1.2	0
152	Markov chain approximations for transition densities of Lévy processes. <i>Electronic Journal of Probability</i> , 2014, 19, .	0.5	4
153	Maximum Likelihood Estimation of LTI Continuous-Time Grey-box Models. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 3739-3744.	0.4	4
154	Nonlinear Model Predictive Control of Dimethyl Ether Combustion in a Jet Stirred Reactor. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 3080-3085.	0.4	0
155	Time-domain simulation for active noise control in a two dimensional duct. <i>Noise Control Engineering Journal</i> , 2015, 63, 59-71.	0.2	2
156	Universal quantum simulation with prethreshold superconducting qubits: Single-excitation subspace method. <i>Physical Review A</i> , 2015, 91, .	1.0	19
157	Quantum lattice algorithms: similarities and connections to some classic finite difference algorithms. <i>ESAIM Proceedings and Surveys</i> , 2015, 52, 76-104.	0.5	1
158	Matrix Functions: A Short Course. <i>Series in Contemporary Applied Mathematics</i> , 2015, , 1-27.	0.8	1
159	Computer-Oriented Stability Analysis Based on Recurrent Transformation of Difference Solutions of Ordinary Differential Equations. <i>Cybernetics and Systems Analysis</i> , 2015, 51, 416-431.	0.4	3
160	A Swarm-Based Approach to Learning Phase-Type Distributions for Continuous Time Bayesian Networks. , 2015, , .		1
161	Generating patient specific pseudo-CT of the head from MR using atlas-based regression. <i>Physics in Medicine and Biology</i> , 2015, 60, 825-839.	1.6	119
162	Monte Carlo for Estimating Exponential Convolution. <i>Communications in Statistics Part B: Simulation and Computation</i> , 2015, 44, 2696-2704.	0.6	6
163	Nonlinear pulse combining and pulse compression in multi-core fibers. <i>Optics Letters</i> , 2015, 40, 721.	1.7	53
164	A WENO-solver combined with adaptive momentum discretization for the Wigner transport equation and its application to resonant tunneling diodes. <i>Journal of Computational Physics</i> , 2015, 284, 95-116.	1.9	27

#	ARTICLE	IF	CITATIONS
165	Componentwise accurate fluid queue computations using doubling algorithms. <i>Numerische Mathematik</i> , 2015, 130, 763-792.	0.9	10
166	Discrete-Time Solutions to the Continuous-Time Differential Lyapunov Equation With Applications to Kalman Filtering. <i>IEEE Transactions on Automatic Control</i> , 2015, 60, 632-643.	3.6	44
167	Investigation of performance improvements for active reflection control system through 2D time-domain simulation. <i>Building and Environment</i> , 2015, 94, 867-872.	3.0	0
168	The Scaling, Splitting, and Squaring Method for the Exponential of Perturbed Matrices. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2015, 36, 594-614.	0.7	6
169	New Algorithms for Computing the Matrix Sine and Cosine Separately or Simultaneously. <i>SIAM Journal of Scientific Computing</i> , 2015, 37, A456-A487.	1.3	27
170	New Scaling-Squaring Taylor Algorithms for Computing the Matrix Exponential. <i>SIAM Journal of Scientific Computing</i> , 2015, 37, A439-A455.	1.3	24
171	Simplified formulas for the mean and variance of linear stochastic differential equations. <i>Applied Mathematics Letters</i> , 2015, 49, 12-19.	1.5	8
172	Numerical simulations of time-dependent partial differential equations. <i>Journal of Computational and Applied Mathematics</i> , 2016, 295, 175-184.	1.1	4
173	A matrix exponential decomposition-based time-domain method for band structure calculation of one-dimensional periodic structures. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2016, 29, 773-791.	1.2	1
174	Numerical methods for stochastic differential equations in the Stiefel manifold made simple. , 2016, , .		8
175	Geometric Euler-Maruyama Schemes for Stochastic Differential Equations in $SO(n)$ and $SE(n)$. <i>SIAM Journal on Numerical Analysis</i> , 2016, 54, 2490-2516.	1.1	14
176	Nonlinear combining and compression in multicore fibers. <i>Physical Review A</i> , 2016, 94, .	1.0	26
177	Absorption and Fluorescence Lineshape Theory for Polynomial Potentials. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 5979-5989.	2.3	27
178	Representing 3D cloud radiation effects in two-stream schemes: 2. Matrix formulation and broadband evaluation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 8583-8599.	1.2	39
179	Tests of non linear Gaussian term structure models. <i>Journal of International Financial Markets, Institutions and Money</i> , 2016, 44, 128-147.	2.1	2
180	Krylov subspace exponential time domain solution of Maxwell's equations in photonic crystal modeling. <i>Journal of Computational and Applied Mathematics</i> , 2016, 293, 20-34.	1.1	28
181	Solving engineering models using hyperbolic matrix functions. <i>Applied Mathematical Modelling</i> , 2016, 40, 2837-2844.	2.2	9
182	Transient analysis of Cosserat rod with inextensibility and unshearability constraints using the least-squares finite element model. <i>International Journal of Non-Linear Mechanics</i> , 2016, 79, 38-47.	1.4	9

#	ARTICLE	IF	CITATIONS
183	Testing Matrix Function Algorithms Using Identities. <i>ACM Transactions on Mathematical Software</i> , 2016, 42, 1-15.	1.6	4
184	Thermodynamics, morphology, and kinetics of early-stage self-assembly of β -conjugated oligopeptides. <i>Molecular Simulation</i> , 2016, 42, 955-975.	0.9	29
185	Parallel GPU implementation of PWR reactor burnup. <i>Annals of Nuclear Energy</i> , 2016, 91, 135-141.	0.9	11
186	A high-order time-parallel scheme for solving wave propagation problems via the direct construction of an approximate time-evolution operator. <i>IMA Journal of Numerical Analysis</i> , 2016, 36, 688-716.	1.5	19
187	High performance computing of the matrix exponential. <i>Journal of Computational and Applied Mathematics</i> , 2016, 291, 370-379.	1.1	19
188	A note on the Davison-Man method for Sylvester matrix equations. <i>Computational and Applied Mathematics</i> , 2017, 36, 561-570.	1.3	3
189	An efficient bound for the condition number of the matrix exponential. <i>Journal of Taibah University for Science</i> , 2017, 11, 280-289.	1.1	1
190	Gaussian models for Euro high grade government yields. <i>European Journal of Finance</i> , 2017, 23, 1468-1511.	1.7	4
191	Numerical approaches to simulation of multi-core fibers. <i>Journal of Computational Physics</i> , 2017, 334, 31-44.	1.9	14
192	Verified solutions of delay eigenvalue problems. <i>Applied Mathematics and Computation</i> , 2017, 303, 211-225.	1.4	3
193	A matrix-exponential decomposition based time-domain method for calculating the defect states of scalar waves in two-dimensional periodic structures. <i>Journal of Computational Physics</i> , 2017, 337, 403-420.	1.9	2
194	Spectral variational integrators for semi-discrete Hamiltonian wave equations. <i>Journal of Computational and Applied Mathematics</i> , 2017, 325, 56-73.	1.1	7
195	A high-order finite difference method for option valuation. <i>Computers and Mathematics With Applications</i> , 2017, 74, 652-670.	1.4	14
196	Noisy-free Length Discriminant Analysis with cosine hyperbolic framework for dimensionality reduction. <i>Expert Systems With Applications</i> , 2017, 81, 88-107.	4.4	2
197	Computing humps of the matrix exponential. <i>Journal of Computational and Applied Mathematics</i> , 2017, 319, 87-96.	1.1	9
198	BATS Codes: Theory and Practice. <i>Synthesis Lectures on Communication Networks</i> , 2017, 10, 1-226.	6.3	15
199	A Partial Fourier Transform Method for a Class of Hypoelliptic Kolmogorov Equations. <i>SIAM Journal on Numerical Analysis</i> , 2017, 55, 1867-1891.	1.1	0
200	Green's matrices for the BVP for the system of ODE of the first order: applications to the beam theories. <i>Archive of Applied Mechanics</i> , 2017, 87, 1605-1627.	1.2	2

#	ARTICLE	IF	CITATIONS
201	Space-time parallel computation for time-domain Maxwell's equations. , 2017, , .		0
202	Computation of Lyapunov Characteristic Exponents Using Parallel Computing. , 2017, , .		1
203	Analysis of Markov Chain Approximation for Option Pricing and Hedging: Grid Design and Convergence Behavior. SSRN Electronic Journal, 2017, , .	0.4	4
204	Computational Krylov-based methods for large-scale differential Sylvester matrix problems. Numerical Linear Algebra With Applications, 2018, 25, e2187.	0.9	6
205	A new Krylov subspace method based on rational approximation to solve stiff burnup equation. Annals of Nuclear Energy, 2018, 118, 99-106.	0.9	5
206	International Roughness Index and a New Solution for Its Calculation. Journal of Transportation Engineering Part B: Pavements, 2018, 144, 06018002.	0.8	9
207	Numerical solution of stochastic quantum master equations using stochastic interacting wave functions. Journal of Computational Physics, 2018, 367, 28-48.	1.9	2
208	Finite-Length Analysis of BATS Codes. IEEE Transactions on Information Theory, 2018, 64, 322-348.	1.5	20
209	3D transient electromagnetic modeling using a shift-and-invert Krylov subspace method. Journal of Geophysics and Engineering, 2018, 15, 1341-1349.	0.7	19
210	A backward Monte Carlo approach to exotic option pricing. European Journal of Applied Mathematics, 2018, 29, 146-187.	1.4	18
211	Application of finite difference method of lines on the heat equation. Numerical Methods for Partial Differential Equations, 2018, 34, 626-660.	2.0	16
212	Error analysis of finite difference and Markov chain approximations for option pricing. Mathematical Finance, 2018, 28, 877-919.	0.9	44
213	Numerical solutions to large-scale differential Lyapunov matrix equations. Numerical Algorithms, 2018, 79, 741-757.	1.1	14
214	A new efficient and accurate spline algorithm for the matrix exponential computation. Journal of Computational and Applied Mathematics, 2018, 337, 354-365.	1.1	6
215	Solving Bateman Equation for Xenon Transient Analysis Using Numerical Methods. MATEC Web of Conferences, 2018, 186, 01004.	0.1	2
216	A design structure matrix approach for measuring co-change-modularity of software products. , 2018, , .		6
217	Double-shift-invert Arnoldi method for computing the matrix exponential. Japan Journal of Industrial and Applied Mathematics, 2018, 35, 727-738.	0.5	0
218	Nonlinear discrete wavefront shaping for spatiotemporal pulse compression with multicore fibers. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 2169.	0.9	4

#	ARTICLE	IF	CITATIONS
219	Study on the phase analysis of vortex electromagnetic wave. , 2018, , .		0
221	Solar Photovoltaic Powered Smart Garbage Monitoring System Using GSM/GPS. , 2018, , .		1
222	Practical pulse engineering: Gradient ascent without matrix exponentiation. <i>Frontiers of Physics</i> , 2018, 13, 1.	2.4	11
223	Fast matrix treatment of 3-D radiative transfer in vegetation canopies: SPARTACUS-Vegetation 1.1. <i>Geoscientific Model Development</i> , 2018, 11, 339-350.	1.3	17
224	Efficient Krylov-based exponential time differencing method in application to 3D advection-diffusion-reaction systems. <i>Applied Mathematics and Computation</i> , 2018, 338, 260-273.	1.4	4
225	KIOPS: A fast adaptive Krylov subspace solver for exponential integrators. <i>Journal of Computational Physics</i> , 2018, 372, 236-255.	1.9	43
226	Locally Affine Diffeomorphic Surface Registration and Its Application to Surgical Planning of Fronto-Orbital Advancement. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1690-1700.	5.4	21
227	Firing-rate models for neurons with a broad repertoire of spiking behaviors. <i>Journal of Computational Neuroscience</i> , 2018, 45, 103-132.	0.6	13
228	Self-averaging of random quantum dynamics. <i>Physical Review A</i> , 2018, 98, .	1.0	4
229	Essentially nonnegative matrix exponential methods for nuclide transmutation. <i>Annals of Nuclear Energy</i> , 2018, 120, 611-624.	0.9	3
230	Scabies in residential care homes: Modelling, inference and interventions for well-connected population sub-units. <i>PLoS Computational Biology</i> , 2018, 14, e1006046.	1.5	19
231	On-the-fly backward error estimate for matrix exponential approximation by Taylor algorithm. <i>Journal of Computational and Applied Mathematics</i> , 2019, 346, 532-548.	1.1	13
233	Decomposition Method for Event-Detection State Vector Simulation of Switched-Mode Power Supplies. , 2019, , .		1
234	Parallel-In-Time Magnus Integrators. <i>SIAM Journal of Scientific Computing</i> , 2019, 41, A2999-A3020.	1.3	1
235	An Arbitrary Precision Scaling and Squaring Algorithm for the Matrix Exponential. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2019, 40, 1233-1256.	0.7	13
236	Improved numerical solution of multi-asset option pricing problem: A localized RBF-FD approach. <i>Chaos, Solitons and Fractals</i> , 2019, 119, 298-309.	2.5	24
237	Analysis of Markov Chain Approximation for Diffusion Models with Non-Smooth Coefficients. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2
238	A rational Krylov subspace method for 3D modeling of grounded electrical source airborne time-domain electromagnetic data. <i>Journal of Geophysics and Engineering</i> , 2019, 16, 451-462.	0.7	10

#	ARTICLE	IF	CITATIONS
239	Discrete-Time Large-Signal Modeling and Numerical Methods for Flyback Converters. , 2019, , .		2
240	Link prediction based on linear dynamical response. Physica A: Statistical Mechanics and Its Applications, 2019, 527, 121397.	1.2	6
241	Swing angle estimation for multicopter slung load applications. Aerospace Science and Technology, 2019, 89, 264-274.	2.5	26
242	Analysis of Markov Chain Approximation for Option Pricing and Hedging: Grid Design and Convergence Behavior. Operations Research, 2019, , .	1.2	12
243	Optimality of the Patersonâ€™Stockmeyer method for evaluating matrix polynomials and rational matrix functions. Linear Algebra and Its Applications, 2019, 574, 182-200.	0.4	9
244	An Exponential Integrator with Schurâ€™Krylov Approximation to accelerate combustion chemistry computation. Combustion and Flame, 2019, 203, 180-189.	2.8	4
245	Dynamic Task Offloading in Multi-Agent Mobile Edge Computing Networks. , 2019, , .		21
248	The Effects of Random Error on the Measurement Results of Wide-Swath Interferometric Imaging Radar Altimeter. , 2019, , .		0
249	Prediction of Next Sensor Event and its Time of Occurrence using Transfer Learning across Homes. , 2019, , .		3
250	TriP: Misbehavior Detection for Dynamic Platoons using Trust. , 2019, , .		8
252	Basic Directions of Increase of Power System Fault Tolerance. , 2019, , .		0
253	Inter-Satellite Integrated Laser Communication/Ranging Link with Feedback-Homodyne Detection and Fractional Symbol Ranging. , 2019, , .		3
255	Research on Quality Evaluation Method of Digital Teaching Resources Design Capability Based on Cloud Computing. , 2019, , .		0
256	Piezoelectric Ultra-Stretchable Strain Sensor with Excellent Linearity and Unique Self-Healing Ability. , 2019, , .		1
257	Machine Learning for Detecting Anomalies in SAR Data. , 2019, , .		1
258	Thermal Modes of Reflux-Vapor Modeling and Control of the Rectification Process. , 2019, , .		2
259	Monitoring Lake Ice in Northern Alaska with Backscattering and Interferometric Approaches Using Sentinel-1 Sar Data. , 2019, , .		3
260	Cost function evaluation for optimizing design and actuation of an active exoskeleton to ergonomically assist lifting motions. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
261	A Modified Power Control Algorithm for Coordinating CLI in Massive MIMO System. , 2019, , .		1
262	Audiovisual Analysis for Recognising Frustration during Game-Play: Introducing the Multimodal Game Frustration Database. , 2019, , .		15
264	Based on Public Health Service in Smart Medical Comprehensive Service Platform. , 2019, , .		4
265	Design and Application of Multichannel Radiosonde Receiver. , 2019, , .		0
266	Harnessing Sub-Wavelength and Symmetry Engineering for the Implementation of High-Performance Silicon Bragg Grating Filters. , 2019, , .		0
267	Research on Industrial Integration and Upgrading of Artificial Intelligence and Real Economy. , 2019, , .		1
268	Computing the Matrix Exponential with an Optimized Taylor Polynomial Approximation. Mathematics, 2019, 7, 1174.	1.1	21
269	A Framework for Enhancing the Agriculture yield using Cloud Clusters. , 2019, , .		1
270	View Selection in Knot Deformation. , 2019, , .		0
271	Promoting Theatre Methodology for Expressive Robot Movement and Behavior. , 2019, , .		1
272	Manipulation of the Perceived Direction of Wind by Cross-modal Effects of Wind and Three-dimensional Sound. , 2019, , .		5
273	IEEE Journal of Selected Topics in Quantum Electronics. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, C2-C2.	1.9	1
274	Cybersecurity through Inoculation. , 2019, , .		1
275	Fuzzy Tuner Based Modified Cascade Control for Electromagnetic Levitation System. , 2019, , .		1
276	Temporal resolution enhancement of dynamic MRI sequences within a motion-based framework. , 2019, 2019, 4004-4007.		2
277	Boosting the computation of the matrix exponential. Applied Mathematics and Computation, 2019, 340, 206-220.	1.4	16
278	On matrix exponentials and their approximations related to optimization on the Stiefel manifold. Optimization Letters, 2019, 13, 1069-1083.	0.9	3
279	Semi-analytical solution for time-fractional diffusion equation based on finite difference method of lines (MOL). Engineering With Computers, 2019, 35, 229-241.	3.5	18

#	ARTICLE	IF	CITATIONS
280	Beyond Riemannian geometry. , 2020, , 169-229.		16
281	Global extended Krylov subspace methods for large-scale differential Sylvester matrix equations. Journal of Applied Mathematics and Computing, 2020, 62, 157-177.	1.2	10
282	Numerical methods for differential linear matrix equations via Krylov subspace methods. Journal of Computational and Applied Mathematics, 2020, 370, 112674.	1.1	2
283	Numerical Methods for Event-Detection State Vector Simulation of Switched-Mode Power Supplies. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2285-2292.	3.7	1
284	Deuteron Quadrupolar Chemical Exchange Saturation Transfer (Q-CEST) Solid-State NMR for Static Powder Samples: Approach and Applications to Amyloid β^2 Fibrils. ChemPhysChem, 2020, 21, 220-231.	1.0	11
285	Kernel density estimation with linked boundary conditions. Studies in Applied Mathematics, 2020, 145, 357-396.	1.1	9
286	A General Matrix Function Dimensionality Reduction Framework and Extension for Manifold Learning. IEEE Transactions on Cybernetics, 2022, 52, 2137-2148.	6.2	13
287	Space-time adaptive ADER discontinuous Galerkin schemes for nonlinear hyperelasticity with material failure. Journal of Computational Physics, 2020, 422, 109758.	1.9	20
288	Calculating the divided differences of the exponential function by addition and removal of inputs. Computer Physics Communications, 2020, 254, 107385.	3.0	8
289	Well-scaled, a-posteriori error estimation for model order reduction of large second-order mechanical systems. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2020, 100, e201900186.	0.9	1
290	Solving Burnup Equations by Numerical Inversion of the Laplace Transform Using Pad \acute{e} Rational Approximation. Nuclear Science and Engineering, 2020, 194, 1143-1161.	0.5	1
292	Computing Enclosures for the Matrix Exponential. SIAM Journal on Matrix Analysis and Applications, 2020, 41, 1674-1703.	0.7	3
293	Approximation of the matrix exponential for matrices with a skinny field of values. BIT Numerical Mathematics, 2020, 60, 1113-1131.	1.0	5
294	Uniform shallow trenches termination design for high-voltage VDMOS transistor. Electronics Letters, 2020, 56, 104-105.	0.5	3
295	Performance evaluation of RQ non-parametric CFAR detector in multiple target and non-uniform clutter. IET Radar, Sonar and Navigation, 2020, 14, 415-424.	0.9	3
296	Incentive-Based Integrated Demand Response for Multiple Energy Carriers Considering Behavioral Coupling Effect of Consumers. IEEE Transactions on Smart Grid, 2020, 11, 3231-3245.	6.2	72
297	Detection of integrity loss in networked control systems using an interval finite memory observer. International Journal of Control, 2021, 94, 2640-2649.	1.2	1
298	On automated ear-based authentication. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
299	Optimal Continuous-Discrete Linear Filter and Moment Equations for Nonlinear Diffusions. IEEE Transactions on Automatic Control, 2020, 65, 3961-3976.	3.6	4
300	Dissolved Gases Analysis of canola-based ester oil under creepage discharge. , 2020, , .		2
301	Provenance Tracking in the LHCb Software. Computing in Science and Engineering, 2020, 22, 88-94.	1.2	0
302	Droplet Interactions and Spray Processes. Fluid Mechanics and Its Applications, 2020, , .	0.1	4
303	Impact-Based Feature Extraction Utilizing Differential Signals of Phase-Sensitive OTDR. Journal of Lightwave Technology, 2020, 38, 2539-2546.	2.7	9
304	Efficient implementation of partitioned stiff exponential Runge-Kutta methods. Applied Numerical Mathematics, 2020, 152, 141-158.	1.2	3
305	Investigation on Thermal Stability of Quasi-Isotropic Superconducting Strand Stacked by 2 mm Wide REBCO Tapes and Cu Tapes. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-6.	1.1	13
306	Security Analysis of QKD Protocols: Simulation & Comparison. , 2020, , .		2
307	Exponential time differencing for the tracer equations appearing in primitive equation ocean models. Computer Methods in Applied Mechanics and Engineering, 2020, 365, 113002.	3.4	5
308	A DPG-based time-marching scheme for linear hyperbolic problems. Computer Methods in Applied Mechanics and Engineering, 2021, 373, 113539.	3.4	9
309	Inexact rational Krylov method for evolution equations. BIT Numerical Mathematics, 2021, 61, 473-502.	1.0	0
310	Statistical Analysis of Organsâ€™ Shapes and Deformations: The Riemannian and the Affine Settings in Computational Anatomy. Human-computer Interaction Series, 2021, , 159-183.	0.4	0
311	Performance Analysis and Optimal Design of Time-Delay Directed Consensus Networks. IEEE Transactions on Control of Network Systems, 2022, 9, 197-209.	2.4	2
312	Deep Unsupervised 4-D Seismic 3-D Time-Shift Estimation With Convolutional Neural Networks. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	3
313	Optimal Perturbations of Systems with Delayed Independent Variables for Control of Dynamics of Infectious Diseases Based on Multicomponent Actions. Journal of Mathematical Sciences, 2021, 253, 618-641.	0.1	5
314	2Dâ€™HARECXs analysis of dopant and oxygen vacancy sites in Alâ€™doped yttrium titanate. Journal of the American Ceramic Society, 2021, 104, 3760-3769.	1.9	3
316	Connections Between the Meshfree Peridynamics Discretization and Graph Laplacian for Transient Diffusion Problems. Journal of Peridynamics and Nonlocal Modeling, 2021, 3, 307-326.	1.4	5
317	Numerical methods for solving large-scale systems of differential equations. Ricerche Di Matematica, 2023, 72, 785-802.	0.6	4

#	ARTICLE	IF	CITATIONS
318	Why Improving the Accuracy of Exponential Integrators Can Decrease Their Computational Cost?. Mathematics, 2021, 9, 1008.	1.1	0
319	Markov chain approximation of one-dimensional sticky diffusions. Advances in Applied Probability, 2021, 53, 335-369.	0.4	10
320	An intra-host SARS-CoV-2 dynamics model to assess testing and quarantine strategies for incoming travelers, contact management, and de-isolation. Patterns, 2021, 2, 100262.	3.1	15
321	A Numerical Approach for Evaluating the Time-Dependent Distribution of a Quasi Birth-Death Process. Methodology and Computing in Applied Probability, 2022, 24, 1693-1715.	0.7	3
322	Inventory systems with stochastic and batch demand: computational approaches. Annals of Operations Research, 2022, 309, 163-187.	2.6	3
323	Deuteron Chemical Exchange Saturation Transfer for the Detection of Slow Motions in Rotating Solids. Frontiers in Molecular Biosciences, 2021, 8, 705572.	1.6	3
324	Accuracy and performance analysis for Bloch and Bloch-McConnell simulation methods. Journal of Magnetic Resonance, 2021, 329, 107011.	1.2	6
325	Fast estimation of matrix exponential spatial models. Journal of Spatial Econometrics, 2021, 2, 1.	0.2	2
326	Accurate Torque Control for Induction Motors by Utilizing a Globally Optimized Flux Observer. IEEE Transactions on Power Electronics, 2021, 36, 13261-13274.	5.4	15
327	Parallel exponential time differencing methods for geophysical flow simulations. Computer Methods in Applied Mechanics and Engineering, 2021, 387, 114151.	3.4	1
328	EI-NK: A Robust Exponential Integrator Method With Singularity Removal and Newton-Raphson Iterations for Transient Nonlinear Circuit Simulation. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2022, 41, 1693-1703.	1.9	3
329	Secure multiparty computations in floating-point arithmetic. Information and Inference, 0, , .	0.9	2
331	A Log-Euclidean Framework for Statistics on Diffeomorphisms. Lecture Notes in Computer Science, 2006, 9, 924-931.	1.0	255
332	An As-Invariant-As-Possible $\text{SE}(3)$ -Based Statistical Shape Model. Lecture Notes in Computer Science, 2019, , 219-228.	1.0	3
333	A Solver for Stiff Finite-Rate Relaxation in Baer-Nunziato Two-Phase Flow Models. Fluid Mechanics and Its Applications, 2020, , 31-44.	0.1	6
334	Collected Matrix Derivative Results for Forward and Reverse Mode Algorithmic Differentiation. Lecture Notes in Computational Science and Engineering, 2008, , 35-44.	0.1	62
335	Matrix Functions. Mathematics in Industry, 2008, , 275-303.	0.1	30
336	Exponential Barycenters of the Canonical Cartan Connection and Invariant Means on Lie Groups. , 2013, , 123-166.		16

#	ARTICLE	IF	CITATIONS
337	Lie Bodies: A Manifold Representation of 3D Human Shape. Lecture Notes in Computer Science, 2012, , 1-14.	1.0	53
338	A Piecewise Linear Approximation Method for the Evaluation of Lyapunov Exponents of Polynomial Nonlinear Systems. , 2013, , 439-447.		1
339	Hierarchical Bayesian continuous time dynamic modeling.. Psychological Methods, 2018, 23, 774-799.	2.7	76
340	Differentiable scattering matrix for optimization of photonic structures. Optics Express, 2020, 28, 37773.	1.7	4
341	Prices Expansion in the Wishart Model. SSRN Electronic Journal, 0, , .	0.4	4
342	A Krylov Subspace Method for Option Pricing. SSRN Electronic Journal, 0, , .	0.4	3
343	A Backward Monte Carlo Approach to Exotic Option Pricing. SSRN Electronic Journal, 0, , .	0.4	4
344	Approximating Hamiltonian dynamics with the Nyström method. Quantum - the Open Journal for Quantum Science, 0, 4, 234.	0.0	6
346	Krylov implicit integration factor method for a class of stiff reaction-diffusion systems with moving boundaries. Discrete and Continuous Dynamical Systems - Series B, 2020, 25, 141-159.	0.5	2
347	Solving Stiff Reaction-Diffusion Equations Using Exponential Time Differences Methods. American Journal of Computational Mathematics, 2018, 08, 55-67.	0.2	3
348	Matrix Padé-Type Method for Computing the Matrix Exponential. Applied Mathematics, 2011, 02, 247-253.	0.1	5
349	Numerical Analysis of the Magnetization Behavior in Magnetic Resonance Imaging in the Presence of Multiple Chemical Exchange Pools. Open Journal of Applied Sciences, 2017, 07, 1-14.	0.2	2
350	The impact of weight matrices on parameter estimation and inference: A case study of binary response using land-use data. Journal of Transport and Land Use, 2013, 6, 75-85.	0.7	18
351	Correlators of Polynomial Processes. SIAM Journal on Financial Mathematics, 2021, 12, 1374-1415.	0.7	2
352	Estimation of Kinetic Parameters in Stochastic Biomedical Models Using Estimation Theory. , 2021, , .		0
353	Subdomain-based exponential integrators for quantum Liouville-type equations. Journal of Computational Electronics, 2021, 20, 2070-2090.	1.3	7
354	Quasi-Exact Approximation of Hidden Markov Chain Filters. SSRN Electronic Journal, 0, , .	0.4	0
355	Quasi-exact approximation of hidden Markov chain filters. Communications on Stochastic Analysis, 2010, 4, .	0.1	1

#	ARTICLE	IF	CITATIONS
356	Fpga-based control of piezoelectric actuators. Serbian Journal of Electrical Engineering, 2011, 8, 181-201.	0.2	1
357	Smooth Conditional Transition Paths in Dynamical Gaussian Networks. Lecture Notes in Computer Science, 2011, , 204-215.	1.0	0
358	Exponential Rosenbrock Integrators for Accurate Simulation of Environmental Flows. , 2012, , .		0
359	Parameter Comparison Between Fast-Water-Exchange-Limit-Constrained Standard and Water-Exchange-Modified Dual-Input Tracer Kinetic Models for DCE-MRI in Advanced Hepatocellular Carcinoma. Lecture Notes in Computer Science, 2014, , 33-47.	1.0	0
360	Ganhos econÃmicos da volatilidade realizada no mercado Brasileiro de aÃsÃes. Revista Brasileira De FinanÃsas, 2014, 12, .	0.1	0
361	Matrix Eigenvalue Problems. Texts in Applied Mathematics, 2015, , 431-612.	0.4	0
362	Perprof-py: A Python Package for Performance Profile of Mathematical Optimization Software. Journal of Open Research Software, 2016, 4, 12.	2.7	10
363	APPROXIMATION OF THE LINEAR COMBINATION OF $\langle i \rangle \dagger \langle /i \rangle$ -FUNCTIONS USING THE BLOCK SHIFT-AND-INVERT KRYLOV SUBSPACE METHOD. Journal of Applied Analysis and Computation, 2017, 7, 1402-1416.	0.2	0
364	The matrix of matrices exponential and application. International Journal of Mathematical Analysis, 2019, 13, 81-97.	0.3	0
365	Output-Feedback Model Predictive Control of Non-Ideal-Gas Heat Exchangers. , 2019, , .		1
366	Arbitrary-Order Sensitivity Analysis in Phononic Metamaterials Using the Multicomplex Taylor Series Expansion Method Coupled with Bloch's Theorem. Journal of Applied Mechanics, Transactions ASME, 0, , 1-43.	1.1	2
367	Sparsity Preserving Discretization With Error Bounds. IFAC-PapersOnLine, 2020, 53, 3204-3209.	0.5	0
368	Vector Fields, Lie Derivatives, Integral Curves, and Flows. Geometry and Computing, 2020, , 293-323.	0.1	0
369	All-electron real-time and imaginary-time time-dependent density functional theory within a numeric atom-centered basis function framework. Journal of Chemical Physics, 2021, 155, 154801.	1.2	14
370	Quantum circuit design methodology for multiple linear regression. IET Quantum Communication, 2020, 1, 55-61.	2.2	7
371	Optical vortices in waveguides with discrete and continuous rotational symmetry. Journal of the European Optical Society-Rapid Publications, 2021, 17, .	0.9	11
372	Practical computation of the diffusion MRI signal based on Laplace eigenfunctions: permeable interfaces. NMR in Biomedicine, 2022, 35, e4646.	1.6	2
373	Quantum fluctuations in multiphoton Compton scattering. Physical Review A, 2022, 105, .	1.0	1

#	ARTICLE	IF	CITATIONS
374	An efficient algorithm to compute the exponential of skew-Hermitian matrices for the time integration of the Schrödinger equation. <i>Mathematics and Computers in Simulation</i> , 2022, 194, 383-400.	2.4	4
375	Efficient and accurate computation for the φ -functions arising from exponential integrators. <i>Calcolo</i> , 2022, 59, 1.	0.6	3
376	Simple and Robust Locality Preserving Projections Based on Maximum Difference Criterion. <i>Neural Processing Letters</i> , 2022, 54, 1783-1804.	2.0	3
377	Exponential Multi-Modal Discriminant Feature Fusion for Small Sample Size. <i>IEEE Access</i> , 2022, 10, 14507-14517.	2.6	0
378	A study on the solution of the spatial kinetics equations in the neutron diffusion theory. <i>Progress in Nuclear Energy</i> , 2022, 145, 104113.	1.3	2
379	Image Stitching with Manifold Optimization. <i>IEEE Transactions on Multimedia</i> , 2022, , 1-1.	5.2	3
380	Computing Semigroups with Error Control. <i>SIAM Journal on Numerical Analysis</i> , 2022, 60, 396-422.	1.1	9
381	<i>Recipro</i> : free and open-source multipurpose crystallographic software integrating a crystal model database and viewer, diffraction and microscopy simulators, and diffraction data analysis tools. <i>Journal of Applied Crystallography</i> , 2022, 55, 397-410.	1.9	42
382	Constant upper bounds on the matrix exponential norm. <i>Russian Journal of Numerical Analysis and Mathematical Modelling</i> , 2022, 37, 15-23.	0.2	0
383	3D full-time anisotropic TEM modelling using a mixed BDF2/SAI method. <i>Journal of Geophysics and Engineering</i> , 2021, 18, 995-1006.	0.7	3
384	Exponential Time Differencing Schemes for Fuel Depletion and Transport in Molten Salt Reactors: Theory and Implementation. <i>Nuclear Science and Engineering</i> , 2022, 196, 497-525.	0.5	1
385	A Technique for Improving the Computation of Functions of Triangular Matrices. <i>International Journal of Computer Mathematics</i> , 0, , 1-0.	1.0	0
386	Exponential integration for efficient and accurate multibody simulation with stiff viscoelastic contacts. <i>Multibody System Dynamics</i> , 2022, 54, 443-460.	1.7	5
387	Parallel transport, a central tool in geometric statistics for computational anatomy: Application to cardiac motion modeling. <i>Handbook of Statistics</i> , 2022, , 285-326.	0.4	1
388	Efficient Diffeomorphic Image Registration using Multi-Scale Dual-Phased Learning. , 2022, , .		1
389	Near-linear convergence of the Random Osborne algorithm for Matrix Balancing. <i>Mathematical Programming</i> , 2023, 198, 363-397.	1.6	2
390	Gaussian Process Subspace Prediction for Model Reduction. <i>SIAM Journal of Scientific Computing</i> , 2022, 44, A1428-A1449.	1.3	3
391	Geodesic Normal Coordinate-Based Manifold Filtering for Target Detection. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-15.	2.7	10

#	ARTICLE	IF	CITATIONS
417	Back-Scaling Based Exponential Integrator Method with Multi-Process Parallel Processing for Transient Power/Ground Network Analysis. , 2023, , .		0
423	Pure Shift NMR. Springer Theses, 2024, , 35-93.	0.0	0