Citation Report
List of articles citing

Nineteen Dubious Ways to Compute the Exponential of a Matrix, Twenty-Five Years Later

DOI: 10.1137/s00361445024180
SIAM Review, 2003, 45, 3-49.

Source: https://exaly.com/paper-pdf/35350563/citation-report.pdf
Version: 2024-04-25

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
1592	Time domain electromagnetic field computation with a semi-discrete scheme as an alternative to implicit FDTD methods.		
1591	Trajectory reconstruction for self-localization and map building.		3
1590	A Schur-Parlett Algorithm for Computing Matrix Functions. **2003**, 25, 464-485		93
1589	Implicit purification for temperature-dependent density matrices. *Physical Review B*, **2003**, 68,	3.3	30
1588	Robust method for estimating the Lindblad operators of a dissipative quantum process from measurements of the density operator at multiple time points. *Physical Review A*, **2003**, 67,	2.6	57
1587	Computing the Decay of a Simple Reversible Sub-Markov Semigroup. **2004**, 7, 1-20		1
1586	On the exponentials of some structured matrices. **2004**, 37, 11613-11627		7
1585	Nonequilibrium electron transport using the density matrix renormalization group method. *Physical Review B*, **2004**, 70,	3.3	187
1584	Exact effective Hamiltonian theory. II. Polynomial expansion of matrix functions and entangled unitary exponential operators. **2004**, 120, 51-66		16
1583	A nucleotide substitution model with nearest-neighbour interactions. **2004**, 20 Suppl 1, i216-23		56
1582	The stability of the Keller-Segel model. **2004**, 39, 973-979		
1581	Recursive geometric integrators for wave propagation in a functionally graded multilayered elastic medium. **2004**, 52, 2473-2506		47
1580	Bounding hermite matrix polynomials. **2004**, 40, 117-125		7
1579	Interpolating discrete advection□iffusion propagators at Leja sequences. *Journal of Computational and Applied Mathematics*, **2004**, 172, 79-99	2.4	41
1578	Split-step spline method for modeling optical fiber communications systems. **2004**, 16, 1304-1306		5
1577	Propagators for the time-dependent Kohn-Sham equations. **2004**, 121, 3425-33		403
1576	PyEvolve: a toolkit for statistical modelling of molecular evolution. **2004**, 5, 1		195

1575 A multi-step transversal linearization (MTL) method in non-linear structural dynamics. **2005**, 287, 203-226 11

1574 Fast algorithms for spectral collocation with non-periodic boundary conditions. **2005**, 207, 173-191 6

1573 A discrete Fourier method for numerical solution of strongly coupled mixed parabolic systems. **2005**, 49, 611-624

1572 Evaluation of power-logarithmic singularities, T-stresses and higher order terms of in-plane singular stress fields at cracks and multi-material corners. **2005**, 72, 1498-1530 87

1571 Evaluating failure time probabilities for a Markovian wear process. **2005**, 32, 1131-1145 4

1570 Computing estimates of continuous time macroeconometric models on the basis of discrete data. **2005**, 49, 397-416 7

1569 The Scaling and Squaring Method for the Matrix Exponential Revisited. **2005**, 26, 1179-1193 331

1568 SIMQUADNMR: a program for simulation and interpretation of multiple quantum-filtered NMR spectra of quadrupolar nuclei. *Journal of Magnetic Resonance*, **2005**, 172, 142-51 3

1567 Functions of matrices. **2005**, 406, 285-300 17

1566 A novel stochastic locally transversal linearization (LTL) technique for engineering dynamical systems: Strong solutions. **2005**, 29, 913-937 8

1565 Numerical Evaluation of the Evans Function by Magnus Integration. **2005**, 45, 219-258 11

1564 Discussion on Vibration Analysis of Non-Classically Damped Linear Systems **2005**, 127, 101-102

1563 Approximation Algorithms for Semidefinite Packing Problems with Applications to Maxcut and Graph Coloring. **2005**, 152-166 5

1562 Simple models of antibiotic cycling. **2005**, 22, 187-208 26

1561 Different versions of the Dayhoff rate matrix. **2005**, 22, 193-9 102

1560 Stochastic models of neuronal dynamics. **2005**, 360, 1075-91 55

1559 Protein-mediated DNA loops: effects of protein bridge size and kinks. **2005**, 72, 061902 25

1558 Optimization under Unitary Matrix Constraint using Approximate Matrix Exponential. 1

1557	Time-dependent Density-Matrix Renormalization-Group Methods. **2005**, 74, 246-255	21
1556	Approximating Matrix-Exponential Distributions by Global Randomization. **2005**, 21, 669-693	6
1555	Formulation and integration of learning differential equations on the stiefel manifold. **2005**, 16, 1697-701	14
1554	Integer Programming and Combinatorial Optimization. **2005**,	2
1553	Deriving sufficient conditions for global asymptotic stability of delayed neural networks via nonsmooth analysis--II. **2005**, 16, 1701-6	16
1552	. **2005**, 50, 1123-1134	14
1551	Statistical analysis of stable FDLCP systems by parametric transfer matrices. **2005**, 78, 747-761	10
1550	Numerical simulation of nonuniformly time-sampled pulse propagation in nonlinear fiber. **2005**, 23, 2434-2442	3
1549	Explicit Exponential Runge--Kutta Methods for Semilinear Parabolic Problems. **2005**, 43, 1069-1090	221
1548	Back Matter. **2005**, 441-481	
1547	Scattering of ultrasonic waves by defective adhesion interfaces in submerged laminated plates. **2005**, 118, 2154-2166	25
1546	Application of Coulomb wave function discrete variable representation to atomic systems in strong laser fields. **2006**, 125, 154311	54
1545	Second-order M□ller-Plesset perturbation energy obtained from divide-and-conquer Hartree-Fock density matrix. **2006**, 125, 204106	64
1544	Reachability analysis of nonlinear systems using trajectory piecewise linearized models. **2006**,	7
1543	Analysis of Projection Methods for Rational Function Approximation to the Matrix Exponential. **2006**, 44, 613-635	59
1542	Optimizing Talbot□ Contours for the Inversion of the Laplace Transform. **2006**, 44, 2342-2362	54
1541	A fourth-order commutator-free exponential integrator for nonautonomous differential equations. **2006**, 44, 851-864	22
1540	Modeling mass transfer processes using random walk particle tracking. **2006**, 42,	76

1539	Reduction and solution of the chemical master equation using time scale separation and finite state projection. **2006**, 125, 204104		85
1538	Comparison between failure detection test signals for continuous systems and sampled-data systems. **2006**,		1
1537	Preconditioning Lanczos Approximations to the Matrix Exponential. **2006**, 27, 1438-1457		136
1536	Multivariate Realized Stock Market Volatility. *SSRN Electronic Journal*, **2006**,	1	5
1535	Analog Monte Carlo Methods for Simulating Isotopic Inventories in Complex Systems. *Nuclear Science and Engineering*, **2006**, 152, 243-255	1.2	2
1534	MODEL WEIGHT ESTIMATION FOR FDI USING CONVEX FAULT MODELS. **2006**, 39, 795-800		3
1533	Characterisation of multiple interior noise metrics and translation of the voice of the customer. **2006**, 2, 341		5
1532	A semi-analytical time integration for numerical solution of Boussinesq equation. **2006**, 29, 1953-1968		7
1531	Computing Lyapunov exponents based on the solution expression of the variational system. *Applied Mathematics and Computation*, **2006**, 174, 982-996	2.7	22
1530	Laguerre matrix polynomial series expansion: Theory and computer applications. **2006**, 44, 1025-1043		8
1529	Efficient integration of large stiff systems of ODEs with exponential propagation iterative (EPI) methods. **2006**, 213, 748-776		97
1528	Efficient semi-implicit schemes for stiff systems. **2006**, 214, 521-537		80
1527	Matrix exponential GARCH. **2006**, 134, 95-128		48
1526	H2-optimal digital control of continuous plants with multiple delays. **2006**, 45, 933-942		
1525	Talbot quadratures and rational approximations. **2006**, 46, 653-670		122
1524	Preserving geometric properties of the exponential matrix by block Krylov subspace methods. **2006**, 46, 813-830		24
1523	Performance analysis of timer-based burst assembly with slotted scheduling for optical burst switching networks. **2006**, 63, 1016-1031		7
1522	Time evolution of Matrix Product States. **2006**, 8, 305-305		101

1521	Model Postulates and Simulation. **2006**, 59-78		
1520	Reachability Analysis of Large-Scale Affine Systems Using Low-Dimensional Polytopes. **2006**, 287-301		32
1519	The finite state projection algorithm for the solution of the chemical master equation. **2006**, 124, 044104		446
1518	Parallel solver for the time-dependent linear and nonlinear Schr□dinger equation. **2006**, 73, 036708		96
1517	Techniques of Matrix Exponential Function Derivative for Electrical Engineering Simulations. **2006**,		2
1516	A Restarted Krylov Subspace Method for the Evaluation of Matrix Functions. **2006**, 44, 2481-2504		84
1515	LIMITS ON THE POWER OF SOME MODELS OF QUANTUM COMPUTATION. **2006**, 20, 5122-5131		
1514	JOINT DISTRIBUTIONS OF PORTFOLIO LOSSES AND EXOTIC PORTFOLIO PRODUCTS. **2007**, 10, 733-748		5
1513	Failure Modes and Models for Integrated GPS/INS Systems. **2007**, 60, 327-348		41
1512	Analysis of sequence conservation at nucleotide resolution. **2007**, 3, e254		55
1511	The solution of s exp(s) = a is not always the lambert w function of a. **2007**,		7
1510	Analytische Berechnung der laplacetransformierten Transitionsmatrix (Analytic Form of the Laplace-Transformed Transition Matrix). **2007**, 55, 201-202		
1509	Semianalytical Time Integration for Transient Groundwater Flow in Confined Aquifers. **2007**, 12, 73-82		5
1508	A Direct Formulation for Sparse PCA Using Semidefinite Programming. *SIAM Review*, **2007**, 49, 434-448	7.4	393
1507	EXPINT---A MATLAB package for exponential integrators. **2007**, 33, 4		79
1506	Linear quadratic control of plane Poiseuille flow□he transient behaviour. **2007**, 80, 1912-1930		15
1505	JOINT DISTRIBUTIONS OF PORTFOLIO LOSSES AND EXOTIC PORTFOLIO PRODUCTS. **2007**, 141-156		1
1504	Camera Keyframing using Linear Interpolation of Matrices. **2007**, 12, 55-69		3

1503	Diffusion-based spatial priors for imaging. **2007**, 38, 677-95		60
1502	Inexact Uniformization Method for Computing Transient Distributions of Markov Chains. **2007**, 29, 2562-2580		41
1501	Predicting Parking Lot Occupancy in Vehicular Ad Hoc Networks. **2007**,		80
1500	Graph-Based Representations in Pattern Recognition. **2007**,		1
1499	A Modified Uniformization Method for the Chemical Master Equation. **2007**,		5
1498	Closed form expressions for linear MIMO system responses and solutions of the Lyapunov equation. **2007**,		1
1497	Reachability analysis of linear systems with uncertain parameters and inputs. **2007**,		48
1496	Kernelised Relaxation Labelling using Fokker-Planck Diffusion. **2007**,		
1495	Evaluation of the adsorption free energy of light guest molecules in nanoporous host structures. **2007**, 9, 2697-705		11
1494	A Fast and Simplified Method to Calculate Exponential of Burnup Matrix. **2007**, 44, 1379-1384		
1493	Numerical Solution of Stiff Burnup Equation with Short Half Lived Nuclides by the Krylov Subspace Method. **2007**, 44, 147-154		34
1492	Probabilistic Relaxation Labeling by Fokker-Planck Diffusion on a Graph. **2007**, 204-214		1
1491	A fast diffeomorphic image registration algorithm. **2007**, 38, 95-113		5328
1490	Non-linear Registration. **2007**, 63-80		8
1489	TRANSIENT ANALYSIS OF LOSSY NONUNIFORM TRANSMISSION LINES USING A TIME-STEP INTEGRATION METHOD. **2007**, 69, 257-266		19
1488	Pricing kth-to-Default Swaps Under Default Contagion: The Matrix-Analytic Approach. *SSRN Electronic Journal*, **2007**,	1	4
1487	Comparison of linear and classical velocity update rules in particle swarm optimization: notes on scale and frame invariance. **2007**, 70, 985-1008		37
1486	Multi-step tangential versus transversal linearizations in non-linear dynamics. **2007**, 72, 582-605		2

1485	New numerical integrators based on solvability and splitting. *Journal of Computational and Applied Mathematics*, **2007**, 205, 802-813	2.4	
1484	Transient probability functions of finite birth–death processes with catastrophes. **2007**, 137, 1530-1543		11
1483	An implementation of the exponential time differencing scheme to the magnetohydrodynamic equations in a spherical shell. **2007**, 220, 824-838		10
1482	Numerical simulation of nonlinear dynamical systems driven by commutative noise. **2007**, 226, 1219-1233		8
1481	A Krylov-subspace based solver for the linear and nonlinear Maxwell equations. **2007**, 244, 3479-3496		13
1480	Precise integration method without inverse matrix calculation for structural dynamic equations. **2007**, 6, 57-64		4
1479	On linear matrix differential equations. **2007**, 39, 329-344		8
1478	An error analysis of the modified scaling and squaring method. **2007**, 53, 1293-1305		10
1477	Liouville–Green asymptotic approximation for a class of matrix differential equations and semi-discretized partial differential equations. **2007**, 325, 69-89		7
1476	Computation of functions of Hamiltonian and skew-symmetric matrices. **2008**, 79, 1284-1297		10
1475	Lurch avoidance strategy and its implementation in AMT vehicles. **2008**, 18, 289-300		48
1474	Exponential time integration and Chebychev discretisation schemes for fast pricing of options. **2008**, 58, 1309-1319		36
1473	Probabilistic relaxation labelling using the Fokker–Planck equation. **2008**, 41, 3393-3411		13
1472	Entrywise relative perturbation bounds for exponentials of essentially non-negative matrices. **2008**, 110, 393-403		3
1471	Insights into homonuclear decoupling from efficient numerical simulation: techniques and examples. *Journal of Magnetic Resonance*, **2008**, 192, 183-96	3	23
1470	Polynomially scaling spin dynamics II: further state-space compression using Krylov subspace techniques and zero track elimination. *Journal of Magnetic Resonance*, **2008**, 195, 45-51	3	47
1469	A multistep transversal linearization (MTL) method in non-linear dynamics through a Magnus characterization. *Applied Mathematics and Computation*, **2008**, 198, 799-823	2.7	
1468	On the class of high order time stepping schemes based on Padé approximations for the numerical solution of Burgers' equation. *Applied Mathematics and Computation*, **2008**, 205, 442-453	2.7	6

1467	Finite element formulation for modeling nonlinear viscoelastic elastomers. **2008**, 197, 4702-4717		47
1466	Computing multiple integrals involving matrix exponentials. *Journal of Computational and Applied Mathematics*, **2008**, 213, 300-305	2.4	25
1465	Bounds and approximations for continuous-time Markovian transition probabilities and large systems. **2008**, 185, 216-234		1
1464	Evaluation of dynamic stress intensity factors and T-stress using the scaled boundary finite-element method. **2008**, 75, 1960-1980		53
1463	Graph spectral image smoothing using the heat kernel. **2008**, 41, 3328-3342		127
1462	Numerical spectral analysis of temporal stability of laminar duct flows with constant cross sections. **2008**, 48, 1699-1714		14
1461	Extended Poisson process modelling of dilution series data. **2008**, 57, 461-471		3
1460	A Precise Time-Step Integration Method for Transient Analysis of Lossy Nonuniform Transmission Lines. **2008**, 50, 166-174		25
1459	Pathological rate matrices: from primates to pathogens. **2008**, 9, 550		6
1458	H2-OPTIMAL SAMPLED-DATA CONTROL FOR PLANTS WITH MULTIPLE INPUT AND OUTPUT DELAYS. **2008**, 8, 107-116		8
1457	Steepest Descent Algorithms for Optimization Under Unitary Matrix Constraint. **2008**, 56, 1134-1147		97
1456	Input-Output Analysis and Control Applied to Spatially Developing Shear Flows. **2008**,		
1455	Computational Methods for Nanoscale Applications. **2008**,		11
1454	Model Order Reduction: Theory, Research Aspects and Applications. **2008**,		246
1453	Diffusion-based spatial priors for functional magnetic resonance images. **2008**, 41, 408-23		34
1452	Graph-partitioned spatial priors for functional magnetic resonance images. **2008**, 43, 694-707		13
1451	Smooth Optimization with Approximate Gradient. **2008**, 19, 1171-1183		58
1450	Fast Switching Analysis of Linear Switched Systems Using Exponential Splitting. **2008**, 47, 2582-2597		25

1449	Multiscale Modeling of Chemical Kinetics via the Master Equation. **2008**, 6, 1146-1168		79
1448	Efficient Strong Integrators for Linear Stochastic Systems. **2008**, 46, 2892-2919		13
1447	Sharp Interface and Voltage Conservation in the Phase Field Method: Application to Cardiac Electrophysiology. **2008**, 30, 837-854		9
1446	Algebraic approach to electronic spectroscopy and dynamics. **2008**, 128, 164103		21
1445	Adaptive aggregation method for the chemical master equation. **2008**,		
1444	Wagner and Dollo: a stochastic duet by composing two parsimonious solos. **2008**, 57, 772-84		63
1443	Markov Aging Process and Phase-Type Law of Mortality, X. Sheldon Lin and Xiaoming Liu, October 2007. **2008**, 12, 90-94		
1442	Free axisymmetric vibrations of FGM circular plates. **2008**,		0
1441	Recent Advances in the Parallel Solution in Time of ODEs. **2008**,		
1440	A note on the Pulay force at finite electronic temperatures. **2008**, 129, 244107		27
1439	Probabilistic phylogenetic inference with insertions and deletions. **2008**, 4, e1000172		46
1438	Back Matter. **2008**, 415-453		
1437	Spin dynamics in a double quantum dot: Exact diagonalization study. *Physical Review B*, **2008**, 77,	3.3	12
1436	Closed form solutions of the Sylvester and the Lyapunov equations - closed form Gramians. **2008**,		1
1435	Acceleration Techniques for Approximating the Matrix Exponential Operator. **2008**, 30, 657-683		50
1434	A smooth script-l1-norm sparseness function for orbital based linear scaling total energy minimization. **2008**, 128, 064107		13
1433	Fast Step-response Evaluation of Linear Continuous-time Systems With Time Delay in the Feedback Loop. **2008**, 41, 2631-2636		1
1432	Cooperative Task Assignment Using Dynamic Ranking. **2008**, 41, 5712-5717		2

1431	Transfer Function Modeling of Distributed Piezoelectric Vibration Energy Harvesters. **2009**,	2
1430	Matrix exponential-based closures for the turbulent subgrid-scale stress tensor. **2009**, 79, 016305	21
1429	. **2009**,	7
1428	Stark broadening of hydrogen lines in low-density magnetized plasmas. **2009**, 79, 046408	45
1427	Optimal piecewise-constant signal design for active fault detection. **2009**, 82, 130-146	11
1426	Newton geodesic optimization on special linear group. **2009**,	1
1425	Discretization of Linear Fractional Representations of LPV systems. **2009**,	5
1424	A High-Precision Integration Scheme for the Spectral-Element Time-Domain Method in Electromagnetic Simulation. **2009**, 57, 3223-3231	10
1423	A new proof of Jordan canonical forms of a square matrix. **2009**, 57, 369-386	2
1422	Integrated study of copy number states and genotype calls using high-density SNP arrays. **2009**, 37, 5365-77	93
1421	Algorithm 894. **2009**, 36, 1-20	3
1420	General methods to control right-invariant systems on compact Lie groups and multilevel quantum systems. **2009**, 42, 395301	5
1419	Dynamics of photon transport through quantum impurities in dispersion-engineered one-dimensional systems. **2009**, 11, 114009	31
1418	A pseudo-dynamical systems approach to a class of inverse problems in engineering. **2009**, 465, 1561-1579	17
1417	Exponential time integration using Krylov subspaces. **2009**, 60, 591-609	24
1416	Free axisymmetric vibration of FGM circular plates. **2009**, 30, 1077-1082	20
1415	Precise Hsu method for analyzing the stability of periodic solutions of multi-degrees-of-freedom systems with cubic nonlinearity. **2009**, 87, 1624-1630	19
1414	A Fourier spectral method for the Navier–Stokes equations with volume penalization for moving solid obstacles. **2009**, 228, 5687-5709	90

1413	Krylov and steady-state techniques for the solution of the chemical master equation for the mitogen-activated protein kinase cascade. **2009**, 51, 281-307		7
1412	Adaptive decomposition finite difference methods for solving singular problems□A review. **2009**, 4, 599-626		21
1411	Wave atoms and time upscaling of wave equations. **2009**, 113, 1-71		21
1410	Numerical solution methods for large, difficult kinetic master equations. **2009**, 124, 303-317		13
1409	The Magnus expansion and some of its applications. **2009**, 470, 151-238		675
1408	Stochastic modelling of prey depletion processes. **2009**, 259, 523-32		1
1407	Modelling of combined direct-contact condensation and reactive absorption in packed columns. **2009**, 146, 362-369		12
1406	Magnus□expansion for time-periodic systems: Parameter-dependent approximations. **2009**, 14, 4226-4245		9
1405	On the precise integration methods based on Pad□approximations. **2009**, 87, 380-390		21
1404	Solving Initial Value Problems for Ordinary Differential Equations by two approaches: BDF and piecewise-linearized methods. **2009**, 180, 712-723		7
1403	The scaling and modified squaring method for matrix functions related to the exponential. **2009**, 59, 783-799		37
1402	Wave propagation in a sandwich structure. **2009**, 46, 3290-3300		47
1401	Smoothing schemes for reaction-diffusion systems with nonsmooth data. *Journal of Computational and Applied Mathematics*, **2009**, 223, 374-386	2.4	56
1400	Exponential time integration for fast finite element solutions of some financial engineering problems. *Journal of Computational and Applied Mathematics*, **2009**, 224, 668-678	2.4	28
1399	Comparison of methods for evaluating functions of a matrix exponential. **2009**, 59, 468-486		20
1398	The Scaling and Squaring Method for the Matrix Exponential Revisited. *SIAM Review*, **2009**, 51, 747-764	7.4	114
1397	Thermal motion of a holographically trapped SPM-like probe. **2009**, 20, 395710		21
1396	Time-Domain Simulations of the Nonlinear Maxwell Equations Using Operator-Exponential Methods. **2009**, 57, 475-483		16

1395	Accurate image rotation using hermite expansions. **2009**, 18, 1988-2003		14
1394	Derivatives of spin dynamics simulations. **2009**, 131, 234108		22
1393	Krylov implementation of the hybridization expansion impurity solver and application to 5-orbital models. *Physical Review B*, **2009**, 80,	3.3	42
1392	A systematic approach in defining readmission. **2009**,		1
1391	Error Estimates and Evaluation of Matrix Functions via the Faber Transform. **2009**, 47, 3849-3883		95
1390	ANALYSIS OF HEPATITIS C VIRUS INFECTION MODELS WITH HEPATOCYTE HOMEOSTASIS. **2009**, 69, 999-1023		39
1389	Computing the Fr□het Derivative of the Matrix Exponential, with an Application to Condition Number Estimation. **2009**, 30, 1639-1657		47
1388	State□Space Models for Bayesian Processing. **2009**, 95-146		
1387	Projected Predictor-Corrector Method for Lattice Physics Burnup Calculations. *Nuclear Science and Engineering*, **2009**, 163, 144-151	1.2	10
1386	State and parameter estimation via discrete-time exponential forgetting factor observer. **2009**, 42, 1370-1374		7
1385	A stochastic representation of the local structure of turbulence. **2010**, 89, 54002		27
1384	Phase-Type Distribution. **2010**,		
1383	Computing the Matrix Exponential in Burnup Calculations. *Nuclear Science and Engineering*, **2010**, 164, 140-150	1.2	120
1382	Two-level finite difference scheme of improved accuracy order for time-dependent problems of mathematical physics. **2010**, 50, 112-123		7
1381	Fast computation of optimal disturbances for duct flows with a given accuracy. **2010**, 50, 1914-1924		7
1380	Exponential integrators. **2010**, 19, 209-286		583
1379	Tensor operators: Constructions and applications for long-range interaction systems. *Physical Review A*, **2010**, 81,	2.6	48
1378	Characterizing transportation of indoor gaseous contaminant using the state space method. **2010**, 45, 2148-2159		7

1377	A modified uniformization method for the solution of the chemical master equation. **2010**, 59, 573-584		11
1376	Efficient design of exponential-Krylov integrators for large scale computing. **2010**, 1, 229-237		15
1375	Finite strain plasticity, the stress condition and a complete shell model. **2010**, 45, 189-209		26
1374	High order local linearization methods: An approach for constructing A-stable explicit schemes for stochastic differential equations with additive noise. **2010**, 50, 509-539		14
1373	Generalizing Inverse Compositional and ESM Image Alignment. **2010**, 87, 191-212		9
1372	Clustering and feature selection using sparse principal component analysis. **2010**, 11, 145-157		26
1371	Numerical Modelling in Geo-Electromagnetics: Advances and Challenges. **2010**, 31, 225-245		91
1370	Self-regularized pseudo time-marching schemes for structural system identification with static measurements. **2010**, 82, 896-916		5
1369	On polytopic inclusions as a modeling framework for systems with time-varying delays. **2010**, 46, 615-619		79
1368	Normalized natural gradient in independent component analysis. **2010**, 90, 2773-2777		8
1367	An exponential integrator for advection-dominated reactive transport in heterogeneous porous media. **2010**, 229, 3957-3969		26
1366	Implementation of approach to compute the Lyapunov characteristic exponents for continuous dynamical systems to higher dimensions. **2010**, 347, 315-338		2
1365	Efficient computation of radiances for optically thin media by Pad□approximants. **2010**, 111, 1885-1899		4
1364	Elucidation of T cell signalling models. **2010**, 262, 452-70		10
1363	Exact solution to the Bloch equations and application to the Hahn echo. *Journal of Magnetic Resonance*, **2010**, 206, 227-40	3	19
1362	Matrix exponentials and parallel prefix computation in a quantum control problem. **2010**, 36, 359-369		9
1361	Implicit Euler numerical scheme and chattering-free implementation of sliding mode systems. **2010**, 59, 284-293		112
1360	Three-dimensional solution of axisymmetric bending of functionally graded circular plates. **2010**, 92, 1683-1693		60

1359	Exponentials of skew-symmetric matrices and logarithms of orthogonal matrices. *Journal of Computational and Applied Mathematics*, **2010**, 233, 2867-2875	2.4	13
1358	A definition and evaluation procedure of generalized stress intensity factors at cracks and multi-material wedges. **2010**, 77, 2316-2336		89
1357	New computational approaches for wrinkled and slack membranes. **2010**, 47, 2476-2486		17
1356	Bayesian Markov Random Field analysis for protein function prediction based on network data. **2010**, 5, e9293		73
1355	Applying Climate Derivatives to Flood Risk Management. *SSRN Electronic Journal*, **2010**,	1	2
1354	Computational Queuing Analysis: An Application to Traffic Flow Analysis of the NAS. **2010**,		1
1353	Markov chains with block-structured state-dependent events. **2010**,		2
1352	Bayesian Reliability, Availability, and Maintainability Analysis for Hardware Systems Described Through Continuous Time Markov Chains. **2010**, 52, 324-334		6
1351	Dry Clutch Control for Automotive Applications. **2010**,		21
1350	ZIPF AND LERCH LIMIT OF BIRTH AND DEATH PROCESSES. **2010**, 24, 129-144		5
1349	Computing matrix functions. **2010**, 19, 159-208		57
1348	Time Ordering Effects on Hydrogen Zeeman-Stark Line Profiles in Low-Density Magnetized Plasmas. **2010**, 2010, 1-5		1
1347	Cooperative path planning and task assignment for unmanned air vehicles. **2010**, 224, 121-131		6
1346	Thermal averaging of the indirect nuclear spin-spin coupling constants of ammonia: the importance of the large amplitude inversion mode. **2010**, 132, 114305		28
1345	An energy basin finding algorithm for kinetic Monte Carlo acceleration. **2010**, 132, 134104		69
1344	Computing the stochastic dynamics of phosphorylation networks. **2010**, 17, 189-99		1
1343	On Analysis of Projection Methods for Rational Function Approximation to the Matrix Exponential. **2010**, 48, 191-197		5
1342	Rapid likelihood analysis on large phylogenies using partial sampling of substitution histories. **2010**, 27, 249-65		21

1341	Recursions for the MMPP Score Vector and Observed Information Matrix. **2010**, 26, 649-665	3
1340	A multi-resolution approach to heat kernels on discrete surfaces. **2010**, 29, 1-10	43
1339	QIP = PSPACE. **2010**,	10
1338	Modelling of passive spectroscopy in the ITER divertor: the first hydrogen Balmer lines. **2010**, 43, 144024	18
1337	Putzer's Algorithm for eAt via the Laplace Transform. **2010**, 83, 267-275	1
1336	Explicit expressions for the H2 norm of time-delay systems based on the delay Lyapunov equation. **2010**,	
1335	Probabilistic models of chromosome number evolution and the inference of polyploidy. **2010**, 59, 132-44	148
1334	Shift-Invert Arnoldi Approximation to the Toeplitz Matrix Exponential. **2010**, 32, 774-792	37
1333	Stochastic Modeling of Naïve T Cell Homeostasis for Competing Clonotypes via the Master Equation. **2010**, 8, 1325-1347	6
1332	A Bayesian spatiotemporal model for very large data sets. **2010**, 50, 1126-41	21
1331	Reduced-order method for computing critical eigenvalues in ultra large-scale power systems. **2010**, 4, 836	6
1330	Computer Performance Engineering. **2010**,	
1329	Diversity and Frame Invariance Characteristics in PSO With and Without Digital Pheromones. **2010**,	
1328	On infinity norms as Lyapunov functions: Alternative necessary and sufficient conditions. **2010**,	25
1327	Modeling Progressive Failure of Bonded Joints Using a Single Joint Finite Element. **2011**, 49, 1740-1749	12
1326	On modeling network congestion using continuous-time bivariate Markov chains. **2011**,	2
1325	Circuit simulation using matrix exponential method. **2011**,	3
1324	Using analog circuit behavior to generate SystemC events for an acceleration of mixed-signal simulation. **2011**,	3

1323	On Full-Connectivity Properties of Locally Connected Oscillatory Networks. **2011**, 58, 1063-1075		3
1322	Extended Lagrangian free energy molecular dynamics. **2011**, 135, 164111		17
1321	Numerical simulation of continuous-time stochastic dynamical systems with noisy measurements and their discrete-time equivalents. **2011**,		2
1320	The RMT method for many-electron atomic systems in intense short-pulse laser light. **2011**, 58, 1132-1140		69
1319	Hedging default risks of CDOs in Markovian contagion models. **2011**, 11, 1773-1791		22
1318	Parameter Estimation for Differential Equations and Continuous Time Processes. **2011**, 379-408		
1317	Mathematical Models of Linear Dynamic Systems and Stochastic Signals. **2011**, 33-74		2
1316	Community detection based on network communicability. **2011**, 21, 016103		25
1315	Mathematical Models and Immune Cell Biology. **2011**,		12
1314	Discrete Symbol Calculus. *SIAM Review*, **2011**, 53, 71-104	7.4	18
1313	Dimensional Reductions for the Computation of Time□Dependent Quantum Expectations. **2011**, 33, 2024-2038		2
1312	Fast approximations of bond option prices under CKLS models. **2011**, 8, 206-212		5
1311	A Contour Integral Method for the Black□Scholes and Heston Equations. **2011**, 33, 763-785		18
1310	Markovian and non-Markovian protein sequence evolution: aggregated Markov process models. **2011**, 411, 910-23		16
1309	Computing the Action of the Matrix Exponential, with an Application to Exponential Integrators. **2011**, 33, 488-511		238
1308	Characterizing and Computing the ${cal H}_{2}$ Norm of Time-Delay Systems by Solving the Delay Lyapunov Equation. **2011**, 56, 814-825		64
1307	Computing $f(A)b$ via Least Squares Polynomial Approximations. **2011**, 33, 195-222		26
1306	Global Linear Instability. **2011**, 43, 319-352		377

1305	A Low-Rank Approximation for Computing the Matrix Exponential Norm. **2011**, 32, 349-363		15
1304	QTT approximation of elliptic solution operators in higher dimensions. **2011**, 26,		26
1303	Summary Statistics for Endpoint-Conditioned Continuous-Time Markov Chains. **2011**, 48, 911-924		4
1302	Coupling time-stepping numerical methods and standard aerodynamics codes for instabilitiy analysis of flows in complex geometries. **2011**,		5
1301	From Efficient Symplectic Exponentiation of Matrices to Symplectic Integration of High-dimensional Hamiltonian Systems with Slowly Varying Quadratic Stiff Potentials. **2011**, 2011, 242-280		8
1300	Availability in Stochastic Models. **2011**,		
1299	Stochastic Hazard Process. **2011**,		
1298	Newton's method and secant methods: A longstanding relationship from vectors to matrices. **2011**, 431-475		2
1297	Summary Statistics for Endpoint-Conditioned Continuous-Time Markov Chains. **2011**, 48, 911-924		11
1296	Explicit Time Integration Scheme Using Krylov Subspace Method for Reactor Kinetics Equation. **2011**, 48, 243-255		8
1295	A geometric comparison of entanglement and quantum nonlocality in discrete systems. **2011**, 44, 065304		13
1294	Differential Wheel Speed Sensor Integration with GPS/INS for Land Vehicle Navigation. **2011**,		2
1293	Rational Approximations to the Matrix Exponential in Burnup Calculations. *Nuclear Science and Engineering*, **2011**, 169, 155-167	1.2	82
1292	Spatial regularization of SVM for the detection of diffusion alterations associated with stroke outcome. **2011**, 15, 729-37		50
1291	Exponential locality preserving projections for small sample size problem. **2011**, 74, 3654-3662		37
1290	A new class of exponential propagation iterative methods of Runge–Kutta type (EPIRK). **2011**, 230, 8762-8778		37
1289	Liouvillians in NMR: the direct method revisited. **2011**, 59, 223-44		34
1288	Graphical simulation environments for modelling and simulation of integrative physiology. **2011**, 102, 295-304		8

1287 Product Form Approximation of Transient Probabilities in Stochastic Reaction Networks. **2011**, 277, 3-14 4

1286 Frequency-truncated system norms. **2011**, 47, 1842-1845 5

1285 Continuous-time Monte Carlo methods for quantum impurity models. **2011**, 83, 349-404 944

1284 Discrete-space time-fractional processes. **2011**, 14, 4

1283 Analysis of the Toolkit Method for the Time-Dependent Schrdinger Equation. **2011**, 49, 111-136 1

1282 Computing the maximum transient energy growth. **2011**, 51, 447-457 14

1281 Extremes of Markov-additive Processes with One-sided Jumps, with Queueing Applications. **2011**, 13, 221-267 13

1280 Testing the nullspace property using semidefinite programming. **2011**, 127, 123-144 27

1279 Continuous-discrete state-space modeling of panel data with nonlinear filter algorithms. **2011**, 95, 375-413 12

1278 Accurate matrix exponential computation to solve coupled differential models in engineering. **2011**, 54, 1835-1840 15

1277 Solving differential matrix Riccati equations by a piecewise-linearized method based on diagonal Pad approximants. **2011**, 182, 669-678 1

1276 Forced obliquities and moments of inertia of Ceres and Vesta. **2011**, 213, 496-509 22

1275 Krylov implicit integration factor methods for spatial discretization on high dimensional unstructured meshes: Application to discontinuous Galerkin methods. **2011**, 230, 4336-4352 40

1274 State-space methods for calculating concentration dynamics in multizone buildings. **2011**, 46, 1567-1577 21

1273 Generalized exponential time differencing methods for fractional order problems. **2011**, 62, 876-890 47

1272 Applying Climate Derivatives to Flood Risk Management. **2011**, 2011, 88-103 4

1271 Bibliography. **2011**, 579-597

1270 Shift-invert Lanczos method for the symmetric positive semidefinite Toeplitz matrix exponential. **2011**, 18, 603-614 15

1269	Semi-implicit spectral collocation methods for reaction-diffusion equations on annuli. **2011**, 27, 1113-1129		5
1268	Reduced-order precise integration methods for structural dynamic equations. **2011**, 27, 1569-1582		8
1267	On the use of phase-type distributions for inventory management with supply disruptions. **2011**, 27, 660-675		3
1266	Finite element implementation of nearly-incompressible rheological models based on multiplicative decompositions. **2011**, 89, 411-421		21
1265	Efficient wavefunction propagation by minimizing accumulated action. **2011**, 182, 935-939		2
1264	Efficient orthogonal matrix polynomial based method for computing matrix exponential. *Applied Mathematics and Computation*, **2011**, 217, 6451-6463	2.7	18
1263	Explicit formulas for the exponentials of some special matrices. **2011**, 24, 642-647		3
1262	Comparison of depletion algorithms for large systems of nuclides. **2011**, 38, 261-268		57
1261	Spinach--a software library for simulation of spin dynamics in large spin systems. *Journal of Magnetic Resonance*, **2011**, 208, 179-94	3	263
1260	Functions of a matrix and Krylov matrices. **2011**, 434, 185-200		2
1259	Orthogonal polynomial expansions for the matrix exponential. **2011**, 435, 537-559		7
1258	Improvement on the bound of Hermite matrix polynomials. **2011**, 434, 1910-1919		4
1257	High-order commutator-free exponential time-propagation of driven quantum systems. **2011**, 230, 5930-5956		71
1256	A contribution to the real-time simulation of coupled finite element models of machine tools A numerical comparison. **2011**, 19, 1627-1639		8
1255	QIP = PSPACE. **2011**, 58, 1-27		23
1254	Preconditioned Low-Rank Methods for High-Dimensional Elliptic PDE Eigenvalue Problems. **2011**, 11, 363-381		46
1253	Optimal control methods for rapidly time-varying Hamiltonians. *Physical Review A*, **2011**, 84,	2.6	53
1252	Comparing, optimizing, and benchmarking quantum-control algorithms in a unifying programming framework. *Physical Review A*, **2011**, 84,	2.6	137

1251	Few-photon transport in low-dimensional systems. *Physical Review A*, **2011**, 83,	2.6	70
1250	Preservation of piecewise-linear Lyapunov function under Pad discretization. **2011**,		
1249	A fast and stable explicit integration method by matrix exponential operator for large scale circuit simulation. **2011**,		3
1248	Using Approximate Bayesian Computation to Estimate Transmission Rates of Nosocomial Pathogens. **2011**, 3,		7
1247	On computing the coalescence time density in an isolation-with-migration model with few samples. **2011**, 187, 1241-3		29
1246	Topics in structure-preserving discretization*. **2011**, 20, 1-119		73
1245	Solving a positive definite system of linear equations via the matrix exponential. **2011**,		
1244	Time and Laplace-domain methods for MTL transient and sensitivity analysis. **2011**, 30, 1205-1223		8
1243	Accuracy of impact broadening models in low-density magnetized hydrogen plasmas. **2012**, 45, 165701		12
1242	Stochastic epidemic models revisited: analysis of some continuous performance measures. **2012**, 6, 189-211		11
1241	SEM Modeling with Singular Moment Matrices Part II: ML-Estimation of Sampled Stochastic Differential Equations. **2012**, 36, 22-43		26
1240	Complexity reduction of stochastic master equation simulation based on Kronecker product analysis. **2012**,		
1239	On the relaxation toward equilibrium in an isolated strongly correlated one-dimensional Bose gas. **2012**, T151, 014059		
1238	Krylov-space approach to the equilibrium and nonequilibrium single-particle Green's function. **2012** , 24, 035603		26
1237	Time-Triggered Implementations of Dynamic Controllers. **2012**, 11, 1-24		6
1236	Dispersion-free component of non-covalent interaction via mutual polarization of fragment densities. **2012**, 136, 204109		8
1235	Predicting Directed Links Using Nondiagonal Matrix Decompositions. **2012**,		7
1234	Parallelizing the Hamiltonian Computation in DQMC Simulations: Checkerboard Method for Sparse Matrix Exponentials on Multicore and GPU. **2012**,		0

1233	Doublon dynamics in the extended Fermi-Hubbard model. *Physical Review B*, **2012**, 85,	3.3	32
1232	. **2012**, 61, 769-778		12
1231	Accelerating block checkerboard method on GPU for performance enhancement of 2D and 3D Quantum Monte Carlo simulations. **2012**,		
1230	POWER SERIES SOLUTIONS OF SINGULAR LINEAR SYSTEMS. **2012**, 23, 1250034		
1229	Algorithm 919. **2012**, 38, 1-19		102
1228	New Adaptive Exponential Propagation Iterative Methods of Runge--Kutta Type. **2012**, 34, A2650-A2669		21
1227	Explicit Forward Recursive Estimators for Markov Modulated Markov Processes. **2012**, 28, 359-387		4
1226	Matrix Exponentiation and the Frank-Kamenetskii Equation. **2012**, 2012, 1-14		1
1225	DC-DC Converters Modelling Approach Using Spectral Decomposition Theorem. **2012**, 45, 548-553		0
1224	Bivariate Markov Processes and Their Estimation. **2012**, 6, 1-95		14
1223	Time-Domain Analysis of Large-Scale Circuits by Matrix Exponential Method With Adaptive Control. **2012**, 31, 1180-1193		20
1222	Integration of large chemical kinetic mechanisms via exponential methods with Krylov approximations to Jacobian matrix functions. **2012**, 16, 387-418		19
1221	Multiconfiguration self-consistent field and multireference configuration interaction methods and applications. **2012**, 112, 108-81		462
1220	On the Discretization of Linear Fractional Representations of LPV Systems. **2012**, 20, 1473-1489		23
1219	A phylogenetic comparative method for studying multivariate adaptation. **2012**, 314, 204-15		93
1218	Further properties of random orthogonal matrix simulation. **2012**, 83, 56-79		4
1217	SlimCodeML: An Optimized Version of CodeML for the Branch-Site Model. **2012**,		7
1216	Numerical Method for Reliability Analysis of Phased-Mission System Using Markov Chains. **2012**, 41, 3960-3973		23

1215 Parametric non-rigid registration using a stationary velocity field. **2012**, 21

1214 Effectiveness of an interval computation approach to the dynamic simulation of a MacPherson Suspension system. **2012**, 1

1213 Temporal coherence of acoustic rays and modes using the path integral approach. **2012**, 131, 4450-60 1

1212 Globally stable, highly parallelizable fast transient circuit simulation via faber series. **2012**,

1211 Efficient mixed rational and polynomial approximation of matrix functions. *Applied Mathematics and Computation*, **2012**, 218, 11938-11946 2.7 3

1210 Positivity preserving discretization of time dependent semiconductor drift□diffusion equations. **2012**, 62, 1289-1301 7

1209 Exponential peer methods. **2012**, 62, 1335-1348 2

1208 Time-domain simulation of acoustic wave propagation and interaction with flexible structures using Chebyshev collocation method. **2012**, 331, 4343-4358 6

1207 A numerical algorithm for pricing electricity derivatives for jump-diffusion processes based on continuous time lattices. **2012**, 222, 361-368 12

1206 Minimum grid digital simulation of chronoamperometry at a disk electrode. **2012**, 78, 365-376 18

1205 New evolution equations for the joint response-excitation probability density function of stochastic solutions to first-order nonlinear PDEs. **2012**, 231, 7450-7474 17

1204 Convergence analysis of an iterative algorithm for a class of constrained dynamic problems. *Applied Mathematics and Computation*, **2012**, 219, 1200-1221 2.7

1203 Discussion of the dynamic stability of a multi-degree-of-freedom rotor system affected by a transverse crack. **2012**, 58, 82-100 23

1202 The numerical approximation of nonlinear Black□Scholes model for exotic path-dependent American options with transaction cost. *International Journal of Computer Mathematics*, **2012**, 89, 1239-1254 1.2 29

1201 Transactions on Computational Systems Biology XIV. **2012**,

1200 Automatic design of synthetic gene circuits through mixed integer non-linear programming. **2012**, 7, e35529 18

1199 Continuous Time Markov Chains and Extensions. **2012**, 82-104

1198 . **2012**, 39

1197	. **2012**,		
1196	Constant Proportion Portfolio Insurance Under Regime Switching Exponential L evy Process. *SSRN Electronic Journal*, **2012**,	1	
1195	Pricing Climate Derivatives With Nonlinear Models. **2012**, 2012, 46-59		1
1194	Exponential time integrators for stochastic partial differential equations in 3D reservoir simulation. **2012**, 16, 323-334		17
1193	Computing the maximum amplification of the solution norm of differential-algebraic systems. **2012** , 23, 216-227		5
1192	Convergence of rational multistep methods of Adams-Pad type. **2012**, 52, 3-20		1
1191	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	2.4	1
1190	Magnus integrators for solving linear-quadratic differential games. *Journal of Computational and Applied Mathematics*, **2012**, 236, 3394-3408	2.4	6
1189	Dempster Shafer evidential theory for the automated selection of parameters for Talbot s method contours and application to matrix exponentiation. **2012**, 63, 1519-1535		4
1188	Time-averaging and exponential integrators for non-homogeneous linear IVPs and BVPs. **2012**, 62, 875-894		11
1187	The physics of communicability in complex networks. **2012**, 514, 89-119		181
1186	Fast continuous-discrete DAF-filters. **2012**, 33, 193-210		4
1185	Fast exponential time integration scheme for option pricing with jumps. **2012**, 19, 87-101		13
1184	The Complexity of Relating Quantum Channels to Master Equations. **2012**, 310, 383-418		24
1183	An Efficient High-Order Time Integration Method for Spectral-Element Discontinuous Galerkin Simulations in Electromagnetics. **2013**, 57, 582-603		4
1182	Deformable medical image registration: a survey. **2013**, 32, 1153-90		818
1181	Constant proportion portfolio insurance under a regime switching exponential L y process. **2013**, 52, 508-521		8
1180	Subspace fluid re-simulation. **2013**, 32, 1-9		44

1179	The Design of Intervention Trials Involving Recurrent and Terminal Events. **2013**, 5, 261-285	1
1178	An efficient algorithm for computing the dynamic responses of one-dimensional periodic structures and periodic structures with defects. **2013**, 52, 525-534	7
1177	An efficient ETD method for pricing American options under stochastic volatility with nonsmooth payoffs. **2013**, 29, n/a-n/a	0
1176	Stochastic epidemic models with random environment: quasi-stationarity, extinction and final size. **2013**, 67, 799-831	19
1175	Markovian dynamics on complex reaction networks. **2013**, 529, 199-264	82
1174	Solution of the quasi-one-dimensional linearized Euler equations using flow invariants and the Magnus expansion. **2013**, 723, 190-231	92
1173	A modal precise integration method for the calculation of footbridge vibration response. **2013**, 128, 116-127	13
1172	Matrix-Analytic Methods in Stochastic Models. **2013**,	4
1171	A matrix approach for partial differential equations with Riesz space fractional derivatives. **2013**, 222, 1975-1985	15
1170	Exponential integrators for time-fractional partial differential equations. **2013**, 222, 1915-1927	16
1169	Heat diffusion kernel and distance on surface meshes and point sets. **2013**, 37, 676-686	17
1168	Complete description of the interactions of a quadrupolar nucleus with a radiofrequency field. Implications for data fitting. **2013**, 53, 20-6	3
1167	Two-Level QTT-Tucker Format for Optimized Tensor Calculus. **2013**, 34, 593-623	25
1166	Modeling of DC-DC converters based on Fibonacci-Horner theorem. **2013**,	1
1165	Stochastic model simulation using Kronecker product analysis and Zassenhaus formula approximation. **2013**, 10, 1125-36	2
1164	Minimal Split Checkerboard Method for Exponentiating Sparse Matrices and Its Applications in Quantum Statistical Mechanics. **2013**, 35, C143-C171	0
1163	On Adaptive Control With Closed-Loop Reference Models: Transients, Oscillations, and Peaking. **2013**, 1, 703-717	89
1162	Integrating generic sensor fusion algorithms with sound state representations through encapsulation of manifolds. **2013**, 14, 57-77	108

1161	Exponential local discriminant embedding and its application to face recognition. **2013**, 43, 921-34		48
1160	Development of the point-depletion code DEPTH. **2013**, 258, 235-240		23
1159	Biot-JKD model: Simulation of 1D transient poroelastic waves with fractional derivatives. **2013**, 237, 1-20		26
1158	Computing matrix functions arising in engineering models with orthogonal matrix polynomials. **2013**, 57, 1738-1743		8
1157	Krylov implicit integration factor WENO methods for semilinear and fully nonlinear advection–diffusion–reaction equations. **2013**, 253, 368-388		28
1156	Efficient computation of the matrix cosine. *Applied Mathematics and Computation*, **2013**, 219, 7575-7585	2.7	10
1155	Matrix-algebra-based calculations of the time evolution of the binary spin-bath model for magnetization transfer. *Journal of Magnetic Resonance*, **2013**, 230, 88-97	3	10
1154	Markovian Trees Subject to Catastrophes: Would They Survive Forever?. **2013**, 87-106		1
1153	Efficient simulation of geothermal processes in heterogeneous porous media based on the exponential Rosenbrock–Euler and Rosenbrock-type methods. **2013**, 53, 250-262		25
1152	Observability for Switched Linear Systems: Characterization and Observer Design. **2013**, 58, 891-904		107
1151	wFEM heat kernel: Discretization and applications to shape analysis and retrieval. **2013**, 30, 276-295		18
1150	PARAEXP: A Parallel Integrator for Linear Initial-Value Problems. **2013**, 35, C123-C142		55
1149	Statistically testing the validity of analytical and computational approximations to the chemical master equation. **2013**, 138, 204108		2
1148	The solution of two-dimensional advection–diffusion equations via operational matrices. **2013**, 72, 172-187		12
1147	An EM algorithm for continuous-time bivariate Markov chains. **2013**, 57, 504-517		9
1146	Computation of matrix functions with deflated restarting. *Journal of Computational and Applied Mathematics*, **2013**, 237, 223-233	2.4	2
1145	Comparative performance of exponential, implicit, and explicit integrators for stiff systems of ODEs. *Journal of Computational and Applied Mathematics*, **2013**, 241, 45-67	2.4	50
1144	Stabilization of linear impulsive systems through a nearly-periodic reset. **2013**, 7, 4-15		53

1143 . **2013**, 7, 681-699 7

1142 Improved precise integration method for differential Riccati equation. **2013**, 34, 1-14 14

1141 Efficient and accurate depletion calculations via two-block decomposition of nuclide concentration vector. **2013**, 53, 147-157 1

1140 Parallel Implementation of Exact Matrix Computation Using Multiple P-adic Arithmetic. **2013**, 0

1139 Exponential almost Runge-Kutta methods for semilinear problems. **2013**, 53, 567-594 1

1138 Fast reaching in clutter while regulating forces using model predictive control. **2013**, 6

1137 Study on Improvement of Analytic Depletion Calculation Method. **2013**,

1136 Small-angle rotation method for star tracker orientation. **2013**, 7, 073479 1

1135 Resilient synchronization in robust networked multi-agent systems. **2013**, 6

1134 Mathematical description of motion and deformation. **2013**, 5

1133 Profile Arthur S. BlandHigh performance at Oak Ridge laboratory. **2013**, 19, 62-62

1132 CodonPhyML: fast maximum likelihood phylogeny estimation under codon substitution models. **2013**, 30, 1270-80 77

1131 Error Bounds for the Lanczos Methods for Approximating Matrix Exponentials. **2013**, 51, 68-87 14

1130 Precise Integration Method for Solving Noncooperative LQ Differential Game. **2013**, 2013, 1-9

1129 On the dynamics of the FermiBose model. **2013**, 46, 015005

1128 Symbolic Solution to Complete Ordinary Differential Equations with Constant Coefficients. **2013**, 2013, 1-15

1127 On the use of exponential time integration methods in atmospheric models. **2013**, 65, 20898 30

1126 A Parameter-Uniform Tailored Finite Point Method for Singularly Perturbed Linear ODE Systems. **2013**, 31, 422-438 5

1125	Stochastic exponential integrators for the finite element discretization of SPDEs for multiplicative and additive noise. **2013**, 33, 515-543		48
1124	NEW ICA ALGORITHMS BASED ON SPECIAL LINEAR GROUP. **2013**, 04, 1250028		
1123	MAXIMUM POPULATION SIZES IN HOSTPARASITOID MODELS. **2013**, 06, 1350002		3
1122	gyre: an open-source stellar oscillation code based on a new Magnus Multiple Shooting scheme. **2013**, 435, 3406-3418		216
1121	A mathematical approach for evaluating Markov models in continuous time without discrete-event simulation. **2013**, 33, 767-79		13
1120	Defect corrected averaging for parabolic PDEs. **2013**, 13, 509-510		3
1119	Balanced Splitting and Rebalanced Splitting. **2013**, 51, 3084-3105		23
1118	Residual, Restarting, and Richardson Iteration for the Matrix Exponential. **2013**, 35, A1376-A1397		45
1117	A time-domain numerical modeling of two-dimensional wave propagation in porous media with frequency-dependent dynamic permeability. **2013**, 134, 4610		19
1116	Control system design of robotic manipulator for testing of shifting system. **2013**,		1
1115	Relaxation towards negative temperatures in bosonic systems: Generalized Gibbs ensembles and beyond integrability. *Physical Review A*, **2013**, 88,	2.6	4
1114	. **2013**,		12
1113	Attitude Representation and Kinematic Propagation for Low-Cost UAVs. **2013**,		3
1112	Matrix function. **2013**, 19, 66-67		
1111	A fractional Burgers equation arising in nonlinear acoustics: theory and numerics. **2013**, 46, 406-411		9
1110	On the numerical integration of a random integral equation arising in the simulation of stochastic transport equations. **2013**,		
1109	Using Generalized Laguerre Polynomials to Compute the Matrix Exponential in Burnup Equations. *Nuclear Science and Engineering*, **2013**, 175, 259-265	1.2	6
1108	A Tractable Framework for Zero-Lower-Bound Gaussian Term Structure Models. *SSRN Electronic Journal*, **2013**,	1	41

1107 . **2013**, 31

1106 Bibliography. **2013**, 387-393

1105 Three-Dimensional Exact Free Vibration Analysis of Spherical, Cylindrical, and Flat One-Layered Panels. **2014**, 2014, 1-29 20

1104 Fast Model Predictive Control Method for Large-Scale Structural Dynamic Systems: Computational Aspects. **2014**, 2014, 1-13 5

1103 Investigation of Building Passive Thermal Storage for Optimal Heating System Design. **2014**,

1102 . **2014**, 26

1101 Modeling CD40-based molecular communications in blood vessels. *IEEE Transactions on Nanobioscience*, **2014**, 13, 230-43 3.4 40

1100 Transfer matrix of the sixth order. **2014**, 0

1099 Toward efficiency in heterogeneous multispecies reactive transport modeling: A particle-tracking solution for first-order network reactions. **2014**, 50, 7206-7230 40

1098 Taylor-like bifurcations for a compressible isotropic elastic tube. **2014**, 19, 966-987 5

1097 Mathematical Tools for Shape Analysis and Description. **2014**, 6, 1-138 10

1096 On the discretisation of sparse linear systems. **2014**, 1

1095 Models of nucleotide substitution. **2014**, 1-34 1

1094 Efficient Bayesian inference under the structured coalescent. **2014**, 30, 2272-9 78

1093 Fully-implicit log-conformation formulation of constitutive laws. **2014**, 214, 78-87 25

1092 A Primer for Spatial Econometrics. **2014**, 42

1091 Alternative Model Specifications for Big Datasets. **2014**, 167-201

1090 Heat kernel based community detection. **2014**, 79

1089	An introduction to Ricci flow and volumetric approximation with applications to shape modeling. **2014**,		1
1088	Dynamics of entanglement entropy and entanglement spectrum crossing a quantum phase transition. *Physical Review B*, **2014**, 89,	3.3	45
1087	Optimal control of a quantum measurement. *Physical Review A*, **2014**, 90,	2.6	8
1086	Implementation of Parallel Adaptive-Krylov Exponential Solvers for Stiff Problems. **2014**, 36, C591-C616		6
1085	Path factorization approach to stochastic simulations. **2014**, 113, 230601		32
1084	Theory of dynamical electron channeling contrast images of near-surface crystal defects. **2014**, 146, 71-8		35
1083	Aggressively Truncated Taylor Series Method for Accurate Computation of Exponentials of Essentially Nonnegative Matrices. **2014**, 35, 317-338		5
1082	Explicit Causal Recursive Estimators for Continuous-Time Bivariate Markov Chains. **2014**, 62, 2709-2718		8
1081	Self-consistent field theory based molecular dynamics with linear system-size scaling. **2014**, 140, 134109		16
1080	A physically and geometrically nonlinear scaled-boundary-based finite element formulation for fracture in elastomers. **2014**, 99, 966-999		27
1079	A Stochastic Smoothing Algorithm for Semidefinite Programming. **2014**, 24, 1138-1177		3
1078	Implementation Methods. **2014**, 281-365		
1077	An interesting method for the exponentials for some special matrices. **2014**, 2, 2-6		1
1076	Semigroup Methods for Evolution Equations on Networks. **2014**,		72
1075	Geometric numerical integrators based on the Magnus expansion in bifurcation problems for non-linear elastic solids. **2014**, 8, 128-138		
1074	Stacked-Bloch-wave electron diffraction simulations using GPU acceleration. **2014**, 141, 32-7		17
1073	On the stability of some algorithms for computing the action of the matrix exponential. **2014**, 443, 1-20		7
1072	Accurate and efficient matrix exponential computation. *International Journal of Computer Mathematics*, **2014**, 91, 97-112	1.2	9

1071	A fast elementary algorithm for computing the determinant of Toeplitz matrices. *Journal of Computational and Applied Mathematics*, **2014**, 255, 353-361	2.4	12
1070	Product approximations for a class of quantum anharmonic oscillators. **2014**, 65, 613-643		
1069	Multivariate Tensor-Based Morphometry with a Right-Invariant Riemannian Distance on GL+(n). **2014**, 50, 18-31		9
1068	A General Exponential Framework for Dimensionality Reduction. **2014**, 23, 920-30		54
1067	Time-dependent multiconfiguration methods for the numerical simulation of photoionization processes of many-electron atoms. **2014**, 223, 177-336		46
1066	Lamb waves in anisotropic plates (review). **2014**, 60, 95-103		52
1065	Online Use of Physically Based Plasticity Models for Steady State Cold Rolling Processes. **2014**, 23, 391-401		
1064	Comparison of software for computing the action of the matrix exponential. **2014**, 54, 113-128		32
1063	Fission yield covariance generation and uncertainty propagation through fission pulse decay heat calculation. **2014**, 69, 331-343		19
1062	Computational Modeling and Least-Squares Fittingof EPR Spectra. **2014**, 69-138		8
1061	A Limiting Property of the Matrix Exponential. **2014**, 59, 1105-1110		
1060	Tuning and terminating methods. **2014**, 230-249		
1059	A residual based error estimate for Leja interpolation of matrix functions. **2014**, 456, 157-173		4
1058	On the contact treatment of non-convex particles in the granular element method. **2014**, 1, 257-275		20
1057	Numerical modeling of nonlinear acoustic waves in a tube connected with Helmholtz resonators. **2014**, 259, 421-443		15
1056	Dynamic reliability modelling Applications in gas industry. **2014**,		
1055	Left-Invariant Riemannian Geodesics on Spatial Transformation Groups. **2014**, 7, 1503-1557		12
1054	The Matrix Unwinding Function, with an Application to Computing the Matrix Exponential. **2014**, 35, 88-109		11

1053	Locally Linearized Runge Kutta method of Dormand and Prince. *Applied Mathematics and Computation*, **2014**, 247, 589-606	2.7	5
1052	A Framework for the Automation of Generalized Stability Theory. **2014**, 36, C25-C48		3
1051	Mathematical Basics of Motion and Deformation in Computer Graphics. **2014**, 6, 1-83		7
1050	A functional approach to pricing complex barrier options. **2014**, 20, 399-418		3
1049	Numerical Methods and Optimization. **2014**,		5
1048	Statistical analysis and simulation of random shocks in stochastic Burgers equation. **2014**, 470, 20140080		9
1047	Model selection in historical biogeography reveals that founder-event speciation is a crucial process in Island Clades. **2014**, 63, 951-70		658
1046	Wave simulation in 2D heterogeneous transversely isotropic porous media with fractional attenuation: A Cartesian grid approach. **2014**, 275, 118-142		8
1045	Computer-intensive simulation of solid-state NMR experiments using SIMPSON. *Journal of Magnetic Resonance*, **2014**, 246, 79-93	3	109
1044	Compensation of geometrical deviations via model based-observers. **2014**, 73, 989-998		7
1043	Exponential versus IMEX high-order time integrators for thermal convection in rotating spherical shells. **2014**, 264, 41-54		20
1042	Iterative across-time solution of linear differential equations: Krylov subspace versus waveform relaxation. **2014**, 67, 2088-2098		6
1041	Measurement and optimization of supply chain responsiveness. **2014**, 46, 1-22		18
1040	Energy conserving discontinuous Galerkin spectral element method for the VlasovPoisson system. **2014**, 279, 261-288		14
1039	Reliability analysis of shock-based deterioration using phase-type distributions. **2014**, 38, 88-101		22
1038	Modeling hydrogen transport in large disordered systems. **2014**, T159, 014058		2
1037	Implementing state-space methods for multizone contaminant transport. **2014**, 71, 131-139		11
1036	Closed-form matrix exponential and its application in finite-strain plasticity. **2014**, 98, 960-987		41

1035	Exponential integrators for stiff elastodynamic problems. **2014**, 33, 1-20		25
1034	Higher order exponential time differencing scheme for system of coupled nonlinear Schrödinger equations. *Applied Mathematics and Computation*, **2014**, 228, 271-291	2.7	17
1033	Array-representation Integration Factor Method for High-dimensional Systems. **2014**, 258,		21
1032	Program for quantum wave-packet dynamics with time-dependent potentials. **2014**, 185, 407-414		18
1031	Simulation of coherence selection by pulsed field gradients in liquid-state NMR using an auxiliary matrix formalism. *Journal of Magnetic Resonance*, **2014**, 240, 95-101	3	2
1030	Wave propagation in a fractional viscoelastic Andrade medium: Diffusive approximation and numerical modeling. **2014**, 51, 994-1010		10
1029	Maximum queue lengths during a fixed time interval in the M/M/c retrial queue. *Applied Mathematics and Computation*, **2014**, 235, 124-136	2.7	5
1028	Spectral decomposition based approach for DC–DC converters modeling. **2014**, 61, 288-297		2
1027	Modeling of a Multilevel Voltage Source Converter Using the Fast Time-Domain Method. **2014**, 2, 1117-1126		5
1026	Exponential integrators for coupled self-adjoint non-autonomous partial differential systems. *Applied Mathematics and Computation*, **2014**, 243, 1-11	2.7	
1025	Optimal preconditioners for functions of matrices. **2014**, 457, 224-243		3
1024	Laplacian spectral distances and kernels on 3D shapes. **2014**, 47, 102-110		9
1023	Stabilized explicit Runge–Kutta methods for multi-asset American options. **2014**, 67, 1293-1308		29
1022	Markov chain approximations for transition densities of Lévy processes. **2014**, 19,		2
1021	Large deviations in continuous-time linear single-input control systems. **2014**, 47, 5586-5591		1
1020	Maximum Likelihood Estimation of LTI Continuous-Time Grey-box Models. **2014**, 47, 3739-3744		3
1019	Encyclopedia of Applied and Computational Mathematics. **2015**, 10-17		
1018	Mori-Zwanzig Approach to Uncertainty Quantification. **2015**, 1-36		1

1017	Sublinear Column-wise Actions of the Matrix Exponential on Social Networks. **2015**, 11, 352-384		6
1016	Encyclopedia of Applied and Computational Mathematics. **2015**, 17-23		1
1015	Band structure calculation of one-dimensional periodic structures by a time-domain method based on matrix-exponential decomposition technique. **2015**,		
1014	Laser-nucleus interactions: The quasi-adiabatic regime. **2015**, 92,		6
1013	High-precision evaluation of Wigner's d matrix by exact diagonalization. **2015**, 92, 043307		17
1012	Fock space, symbolic algebra, and analytical solutions for small stochastic systems. **2015**, 92, 062714		4
1011	Chebyshev matrix product state approach for time evolution. *Physical Review B*, **2015**, 92,	3.3	15
1010	General transient solution of the one-step master equation in one dimension. **2015**, 91, 062119		16
1009	Auxiliary matrix formalism for interaction representation transformations, optimal control, and spin relaxation theories. **2015**, 143, 084113		26
1008	A Fast Computation of 3 ℝ Matrix Exponentials and its Application in CG. **2015**, 23, 171-175		
1007	References. 825-846		
1006	A reduced-scaling density matrix-based method for the computation of the vibrational Hessian matrix at the self-consistent field level. **2015**, 142, 094101		16
1005	Superoptimal Preconditioners for Functions of Matrices. **2015**, 8, 515-529		2
1004	Minimax vs Pade approximation of matrix exponential for normal and nonnegative matrices. **2015**,		1
1003	Matrix Functions: A Short Course. **2015**, 1-27		
1002	Continuous Matching via Vector Field Flow. **2015**, 34, 129-139		16
1001	Encyclopedia of Applied and Computational Mathematics. **2015**, 87-89		
1000	An inexact shift-and-invert Arnoldi algorithm for Toeplitz matrix exponential. **2015**, 22, 777-792		7

999	Analysis of transtheoretical model of health behavioral changes in a nutrition intervention study--a continuous time Markov chain model with Bayesian approach. **2015**, 34, 3577-89		5
998	A joint model for interval-censored functional decline trajectories under informative observation. **2015**, 34, 3929-48		
997	Bibliography. **2015**, 487-490		
996	Ice Accretion and Icing Technology. **2015**,		
995	Bayesian Inference of Markov Processes. **2015**, 1-15		0
994	A finite-time convergent observer with robustness to piecewise-constant measurement noise. **2015**, 57, 222-230		16
993	Riemannian optimization in complex-valued ICA. **2015**, 83-94		1
992	Molecular Dynamics. **2015**,		25
991	Discrete Derivatives of Vector Fields on Surfaces -- An Operator Approach. **2015**, 34, 1-13		33
990	A feasible filter method for the nearest low-rank correlation matrix problem. **2015**, 69, 763-784		5
989	. **2015**, 7, 1-13		10
988	Encyclopedia of Applied and Computational Mathematics. **2015**, 38-43		
987	Theoretical approaches to control spin dynamics in solid-state nuclear magnetic resonance. **2015**, 127, 2081-2109		0
986	A Swarm-Based Approach to Learning Phase-Type Distributions for Continuous Time Bayesian Networks. **2015**,		0
985	Encyclopedia of Applied and Computational Mathematics. **2015**, 5-10		
984	Encyclopedia of Applied and Computational Mathematics. **2015**, 1-5		
983	Pricing American options under multi-state regime switching with an efficient L- stable method. *International Journal of Computer Mathematics*, **2015**, 92, 2530-2550	1.2	16
982	Analyzing Real Time Linear Control Systems Using Software Verification. **2015**,		12

981	Hybrid Systems Biology. **2015**,		
980	Encyclopedia of Applied and Computational Mathematics. **2015**, 67-72		
979	Encyclopedia of Applied and Computational Mathematics. **2015**, 58-67		2
978	A multiple iterative splitting method for higher order differential equations. **2015**, 424, 1447-1470		2
977	A Gautschi time-stepping approach to optimal control of the wave equation. **2015**, 90, 55-76		1
976	Discrete-Time Solutions to the Continuous-Time Differential Lyapunov Equation With Applications to Kalman Filtering. **2015**, 60, 632-643		32
975	An analytical solution for one-dimensional advective–dispersive solute equation in multilayered finite porous media. **2015**, 107, 657-666		7
974	Symbolic mathematics-based simulation of cylinder spaces for regenerative gas cycles. **2015**, 6, 157-164		
973	Accurate dense output formula for exponential integrators using the scaling and squaring method. **2015**, 43, 101-107		6
972	Analysis of thick and orthotropic rectangular laminated composite plates using a state-space-based generalised RKP-FSM. **2015**, 133, 691-706		8
971	The Scaling, Splitting, and Squaring Method for the Exponential of Perturbed Matrices. **2015**, 36, 594-614		6
970	A state space augmented generalised RKPM for three-dimensional analysis of thick and laminated composite plates. **2015**, 158, 225-239		9
969	Numerical solution of matrix exponential in burn-up equation using mini-max polynomial approximation. **2015**, 80, 219-224		20
968	Large deviations in linear control systems with nonzero initial conditions. **2015**, 76, 957-976		23
967	New Scaling-Squaring Taylor Algorithms for Computing the Matrix Exponential. **2015**, 37, A439-A455		15
966	Simplified formulas for the mean and variance of linear stochastic differential equations. **2015**, 49, 12-19		5
965	Defect corrected averaging for highly oscillatory problems. *Applied Mathematics and Computation*, **2015**, 261, 90-103	2.7	2
964	Application of a simplified thermal network model for real-time thermal load estimation. **2015**, 96, 309-318		23

963 Analysis of pumped heat electricity storage process using exponential matrix solutions. **2015**, 84, 34-44 29

962 Modeling Methods Based on the Rigorous Theory of the Interaction of a Plane Monochromatic Wave with an Ideal Stratified Medium. Eigenwave (EW) Methods. EW Jones Matrix Method. **2015**, 251-329

961 Lamb waves in a clamped and a partially clamped elastic layer. **2015**, 50, 81-95

960 A Theoretical Foundation for the Nelson–Siegel Class of Yield Curve Models. **2015**, 30, 97-118 14

959 Ancestral population genomics using coalescence hidden Markov models and heuristic optimisation algorithms. **2015**, 57, 80-92 2

958 The Representation and Parametrization of Orthogonal Matrices. **2015**, 119, 7924-39 7

957 A random walk solution for modeling solute transport with network reactions and multi-rate mass transfer in heterogeneous systems: Impact of biofilms. **2015**, 86, 119-132 16

956 A table of Balmer line shapes for the diagnostic of magnetic fusion plasmas. **2015**, 165, 102-107 6

955 Automatic differentiation method for numerical construction of the rotational-vibrational Hamiltonian as a power series in the curvilinear internal coordinates using the Eckart frame. **2015**, 143, 014105 57

954 Reconstruction of Genome Ancestry Blocks in Multiparental Populations. **2015**, 200, 1073-87 34

953 Interplay of soundcone and supersonic propagation in lattice models with power law interactions. **2015**, 17, 063021 27

952 Magnetization Dynamics from Time-Dependent Noncollinear Spin Density Functional Theory Calculations. **2015**, 11, 3661-8 22

951 Rational Chebyshev spectral transform for the dynamics of broad-area laser diodes. **2015**, 298, 801-815

950 Frame field generation through metric customization. **2015**, 34, 1-11 27

949 Using Distributed Transfer Function Method (DTFM) for Autonomous Health Monitoring of Interplanetary Drills. **2015**, 1

948 A physically based approach to the accurate simulation of stiff fibers and stiff fiber meshes. **2015**, 53, 136-146 17

947 A semi-analytical approach to molecular dynamics. **2015**, 303, 336-354 8

946 Exponential time-differencing with embedded Runge–Kutta adaptive step control. **2015**, 280, 579-601 10

945	Estimating the condition number of f(A)b. **2015**, 70, 287-308		5
944	Convergence rate of weak Local Linearization schemes for stochastic differential equations with additive noise. *Journal of Computational and Applied Mathematics*, **2015**, 279, 106-122	2.4	7
943	Some computational aspects of Gaussian CARMA modelling. **2015**, 25, 375-387		14
942	Estimation and assessment of markov multistate models with intermittent observations on individuals. **2015**, 21, 160-79		10
941	pyCTQW: A continuous-time quantum walk simulator on distributed memory computers. **2015**, 186, 81-92		15
940	High order structure preserving explicit methods for solving linear-quadratic optimal control problems. **2015**, 69, 271-290		2
939	Modeling supercritical heat transfer in compressible fluids. **2015**, 88, 267-278		6
938	A resilient buffer allocation scheme in active queue management: a stochastic cooperative game theoretic approach. **2015**, 28, 1080-1099		7
937	Finite-time state-dependent Riccati equation for time-varying nonaffine systems: rigid and flexible joint manipulator control. **2015**, 54, 125-44		68
936	Controllability and Observability for a Linear Time Varying System with Piecewise Constant Delay. **2015**, 136, 193-216		8
935	Solving the time-fractional Schr□dinger equation by Krylov projection methods. **2015**, 293, 115-134		46
934	Numerical simulations of time-dependent partial differential equations. *Journal of Computational and Applied Mathematics*, **2016**, 295, 175-184	2.4	4
933	STAR - Laplacian Spectral Kernels and Distances for Geometry Processing and Shape Analysis. **2016**, 35, 599-624		15
932	From Circuit Theory, Simulation to SPICEDiego: A Matrix Exponential Approach for Time-Domain Analysis of Large-Scale Circuits. **2016**, 16, 16-34		10
931	An Accurate and Efficient Method for Dynamic Analysis of Two-Dimensional Periodic Structures. **2016**, 08, 1650013		3
930	On fractional matrix exponentials and their explicit calculation. **2016**, 261, 4223-4243		5
929	A matrix-exponential decomposition-based time-domain method for band structure calculation of one-dimensional periodic structures. **2016**, 29, 773-791		1
928	Propagation on Molecular Interaction Networks: Prediction of Effective Drug Combinations and Biomarkers in Cancer Treatment. **2017**, 23, 5-28		1

927	The Probabilistic Model Checking Landscape. **2016**,		63
926	Modeling of multi-band drift in nanowires using a full band Monte Carlo simulation. **2016**, 120, 044307		2
925	Finite state projection based bounds to compare chemical master equation models using single-cell data. **2016**, 145, 074101		24
924	High-frame-rate region-based visual tracking on CPU: An implementation perspective. **2016**,		3
923	Extreme-Scale Phase Field Simulations of Coarsening Dynamics on the Sunway TaihuLight Supercomputer. **2016**,		26
922	A STOCHASTIC APPROXIMATION ALGORITHM FOR STOCHASTIC SEMIDEFINITE PROGRAMMING. **2016**, 30, 431-454		2
921	Near-optimal sensor scheduling for batch state estimation: Complexity, algorithms, and limits. **2016** ,		17
920	Accurate Small Deformation Exponential Approximant to Integrate Large Velocity Fields: Application to Image Registration. **2016**,		
919	Efficient numerical integration of neutrino oscillations in matter. **2016**, 94,		3
918	Challenges and constraints of dynamically emerged source and sink in atomtronic circuits: From closed-system to open-system approaches. *Scientific Reports*, **2016**, 6, 37256	4.9	13
917	Mapping of Continuous-Time Models to Discrete-Time Models. **2016**, 207-234		
916	On the Relaxation Time Scales of the Classical Thermodynamic Model for Heat Transfer in Quiescent Compressible Fluids. **2016**, 138,		1
915	Statistical Inference in the Wright-Fisher Model Using Allele Frequency Data. **2017**, 66, e30-e46		25
914	Automatic implementation of material laws: Jacobian calculation in a finite element code with TAPENADE. **2016**, 72, 2808-2822		1
913	MATRIX Blockset for REX Control System. **2016**, 49, 442-447		2
912	Appendix: A Mathematical Aide-Mémoire. 585-606		
911	A novel extended precise integration method based on Fourier series expansion for the H2-norm of linear time-varying periodic systems. **2016**, 89, 2083-2095		1
910	Analytical evaluation of impedances and kinematic response of inclined piles. **2016**, 117, 384-396		15

909	Parallel matrix function evaluation via initial value ODE modeling. **2016**, 72, 76-91		1
908	Approximate and sampled-data predictors for control of nonlinear delay systems. **2016**, 41, 2-12		5
907	A real distinct poles Exponential Time Differencing scheme for reaction□diffusion systems. *Journal of Computational and Applied Mathematics*, **2016**, 299, 24-34	2.4	12
906	Fluid and borehole wall temperature profiles in vertical geothermal boreholes with multiple U-tubes. **2016**, 96, 137-147		11
905	Few-photon scattering in dispersive waveguides with multiple qubits. **2016**, 41, 2533-6		9
904	Electron dynamics with real-time time-dependent density functional theory. **2016**, 116, 739-749		79
903	Rayleigh wave on the half-space with a gradient piezoelectric layer and imperfect interface. **2016**, 40, 8326-8337		14
902	An efficient algorithm for time propagation as applied to linearized augmented plane wave method. **2016**, 209, 92-95		30
901	Logarithmic Spin, Logarithmic Rate and Material Frame-Indifferent Generalized Plasticity. **2016**, 08, 1650060		2
900	Geometric Euler--Maruyama Schemes for Stochastic Differential Equations in SO(n) and SE(n). **2016**, 54, 2490-2516		9
899	Diffusive Approximation of a Time-Fractional Burger's Equation in Nonlinear Acoustics. **2016**, 76, 1765-1791		12
898	Large deviations for non-zero initial conditions in linear systems. **2016**, 74, 297-307		16
897	Fokker-Planck formalism in magnetic resonance simulations. *Journal of Magnetic Resonance*, **2016**, 270, 124-135	3	30
896	Energy-efficient stochastic matrix function estimator for graph analytics on FPGA. **2016**,		1
895	Calculating Floquet states of large quantum systems: A parallelization strategy and its cluster implementation. **2016**, 201, 85-94		9
894	Scaled and Squared Subdiagonal Pad□Approximation for the Matrix Exponential. **2016**, 37, 145-170		4
893	An efficient exponential time integration method for the numerical solution of the shallow water equations on the sphere. **2016**, 322, 827-848		29
892	Modeling of a Gas Turbine Using Distributed Networks with Smart Nodes and Multiple Time Delays. **2016**,		2

891	The Leja Method Revisited: Backward Error Analysis for the Matrix Exponential. **2016**, 38, A1639-A1661		35
890	State-Space Models for Bayesian Processing. **2016**, 98-149		
889	Krylov Integration Factor Method on Sparse Grids for High Spatial Dimension Convection-Diffusion Equations. **2016**, 69, 736-763		9
888	The Legacy of ADI and LOD Methods and an Operator Splitting Algorithm for Solving Highly Oscillatory Wave Problems. **2016**, 215-230		1
887	Fast-Scale Bifurcation Analysis in One-Cycle Controlled H-Bridge Inverter. **2016**, 26, 1650199		4
886	Using Nonequilibrium Dynamics to Probe Competing Orders in a Mott-Peierls System. **2016**, 116, 086401		12
885	GPU Accelerated Algorithms for Computing Matrix Function Vector Products with Applications to Exponential Integrators and Fractional Diffusion. **2016**, 38, C127-C149		10
884	Block Krylov subspace methods for approximating the linear combination of Functions arising in exponential integrators. **2016**, 72, 846-855		3
883	Splitting sequential Monte Carlo for efficient unreliability estimation of highly reliable networks. **2016**, 63, 1-10		6
882	Accelerating Real-Time Time-Dependent Density Functional Theory with a Nonrecursive Chebyshev Expansion of the Quantum Propagator. **2016**, 12, 5333-5338		12
881	Exact and Approximate Bayesian Inference for Low Integer-Valued Time Series Models with Intractable Likelihoods. **2016**, 11,		9
880	Observer-based output feedback control of sampled-data system under stochastic sampling. **2016**,		1
879	Direct numerical solution of optimal control problems. **2016**,		1
878	Absorption and Fluorescence Lineshape Theory for Polynomial Potentials. **2016**, 12, 5979-5989		19
877	Scaling and modified squaring method for the matrix exponential. **2016**, 8, 65-68		2
876	Improving the Accuracy of the Chebyshev Rational Approximation Method Using Substeps. *Nuclear Science and Engineering*, **2016**, 183, 65-77	1.2	13
875	Prediction of the Average Value of State Variables for Modulated Power Converters Considering the Modulation and Measuring Method. **2016**, 63, 5209-5220		5
874	Efficient computation of the quasi likelihood function for discretely observed diffusion processes. **2016**, 103, 426-437		2

873	Model predictive control for fast reaching in clutter. **2016**, 40, 537-560		20
872	Mean and dispersion of stress tensors using Euclidean and Riemannian approaches. **2016**, 85, 165-173		18
871	The multivariate Wright-Fisher process with mutation: Moment-based analysis and inference using a hierarchical Beta model. **2016**, 108, 36-50		4
870	A compact fourth-order L-stable scheme for reaction–diffusion systems with nonsmooth data. *Journal of Computational and Applied Mathematics*, **2016**, 299, 176-193	2.4	7
869	Generalization of the Davydov Ansatz by squeezing. **2016**, 481, 99-107		9
868	A framework of the harmonic Arnoldi method for evaluating φ-functions with applications to exponential integrators. **2016**, 42, 505-541		3
867	Counting and Generating Permutations in Regular Classes. **2016**, 76, 989-1034		1
866	Wave Propagation in Anisotropic Viscoelasticity. **2016**, 122, 231-254		4
865	Piecewise smooth dynamical systems modeling based on Putzer and Fibonacci-Horner theorems: DC-DC converters case. **2016**, 13, 246-258		2
864	Recent Trends, Applications, and Perspectives in 3D Shape Similarity Assessment. **2016**, 35, 87-119		62
863	Portfolio credit risk with predetermined default orders. **2016**, 16, 131-149		
862	Krylov subspace exponential time domain solution of Maxwell's equations in photonic crystal modeling. *Journal of Computational and Applied Mathematics*, **2016**, 293, 20-34	2.4	21
861	Krylov single-step implicit integration factor WENO methods for advection–diffusion–reaction equations. **2016**, 311, 22-44		17
860	Throughput Analysis of Hybrid-ARQ: A Matrix Exponential Distribution Approach. **2016**, 64, 416-428		18
859	Analysis of passive thermal storage opportunities for heating system design. **2016**, 22, 266-280		2
858	Semi-spectral method for the Wigner equation. **2016**, 305, 1015-1036		6
857	Stabilization for sampled-data systems under noisy sampling interval. **2016**, 63, 162-166		73
856	Multiphase until formulas over Markov reward models: An algebraic approach. **2016**, 611, 116-135		3

855	Uncertain and negative evidence in continuous time Bayesian networks. **2016**, 70, 99-122		4
854	Saddlepoint approximations to option price in a regime-switching model. **2016**, 12, 55-69		4
853	Parallel GPU implementation of PWR reactor burnup. **2016**, 91, 135-141		9
852	A high order finite element scheme for pricing options under regime switching jump diffusion processes. *Journal of Computational and Applied Mathematics*, **2016**, 300, 83-96	2.4	17
851	An Efficient Transient Electro-Thermal Simulation Framework for Power Integrated Circuits. **2016**, 35, 832-843		9
850	A New Polytopic Approximation Method for Networked Systems With Time-Varying Delay. **2016**, 63, 843-847		5
849	Modelling a Bathtub-Shaped Failure Rate by a Coxian Distribution. **2016**, 65, 878-885		5
848	Higher-order probabilistic sensitivity calculations using the multicomplex score function method. **2016**, 45, 1-12		3
847	Quantum switch in coupled-resonator array: Controlling single-photon transport by the state of two-level system. **2016**, 30, 1550262		0
846	Improvements to the Transmutation Trajectory Analysis of depletion evaluation. **2016**, 87, 637-647		20
845	Closed-form representation of matrix functions in the formulation of nonlinear material models. **2016**, 111, 19-32		17
844	Block-tridiagonal state-space realization of Chemical Master Equations: A tool to compute explicit solutions. *Journal of Computational and Applied Mathematics*, **2016**, 296, 410-426	2.4	8
843	On the Floquet–Magnus expansion: Applications in solid-state nuclear magnetic resonance and physics. **2016**, 609, 1-49		21
842	Fourth-order compact schemes for the numerical simulation of coupled Burgers' equation. **2016**, 200, 117-138		44
841	Conceptual basis for an integrated system for the management of a protected area. Examples from its application in a mediterranean area. **2016**, 166, 237-49		1
840	Modeling dynamical electron scattering with Bethe potentials and the scattering matrix. **2016**, 160, 35-43		7
839	A codon model of nucleotide substitution with selection on synonymous codon usage. **2016**, 94, 290-7		9
838	Flexible exponential integration methods for large systems of differential equations. **2016**, 51, 545-567		

837	Efficient numerical integration of Nth-order non-autonomous linear differential equations. *Journal of Computational and Applied Mathematics*, **2016**, 291, 380-390	2.4	3
836	On Stochastic Confidence of Information Spread in Opportunistic Networks. **2016**, 15, 909-923		2
835	High performance computing of the matrix exponential. *Journal of Computational and Applied Mathematics*, **2016**, 291, 370-379	2.4	17
834	Geometric integration of non-autonomous linear Hamiltonian problems. **2016**, 42, 313-332		2
833	Computation of a function of a matrix with close eigenvalues by means of the Newton interpolating polynomial. **2016**, 64, 111-122		2
832	Exponential Krylov peer integrators. **2016**, 56, 375-393		1
831	A note on the Davison–Man method for Sylvester matrix equations. **2017**, 36, 561-570		3
830	Efficient computation of the joint sample frequency spectra for multiple populations. *Journal of Computational and Graphical Statistics*, **2017**, 26, 182-194	1.4	40
829	Particle Swarm Optimization for Single Objective Continuous Space Problems: A Review. **2017**, 25, 1-54		311
828	A novel fast model predictive control for large-scale structures. **2017**, 23, 2190-2205		11
827	Local SAR, global SAR, and power-constrained large-flip-angle pulses with optimal control and virtual observation points. **2017**, 77, 374-384		12
826	An Elementary, First Principles Approach to the Indefinite Spin Groups. **2017**, 27, 1283-1311		
825	Approximation of functions of large matrices with Kronecker structure. **2017**, 135, 1-26		18
824	Locally Linearized methods for the simulation of stochastic oscillators driven by random forces. **2017**, 57, 123-151		18
823	Trigonometric spline and spectral bounds for the solution of linear time-periodic systems. **2017**, 54, 127-157		1
822	Efficient and accurate algorithms for computing matrix trigonometric functions. *Journal of Computational and Applied Mathematics*, **2017**, 309, 325-332	2.4	8
821	Accurate and Efficient Computation of Laplacian Spectral Distances and Kernels. **2017**, 36, 184-196		8
820	Transformations Based on Continuous Piecewise-Affine Velocity Fields. **2017**, 39, 2496-2509		10

819 Delay Network Tomography Using a Partially Observable Bivariate Markov Chain. **2017**, 25, 126-138 7

818 Stall Recovery Guidance Using Fast Model Predictive Control. **2017**, 6

817 Numerical approaches to simulation of multi-core fibers. **2017**, 334, 31-44 9

816 Explicit Large Time Stepping with A Second-Order Exponential Time Integrator Scheme for Unsteady and Steady Flows. **2017**, 7

815 A novel extended precise integration method based on Fourier series expansion for periodic Riccati differential equations. **2017**, 38, 896-907 2

814 An efficient and accurate method for transient heat conduction in 1D periodic structures. **2017**, 108, 1535-1550 8

813 Approximations for Time-Dependent Distributions in Markovian Fluid Models. **2017**, 19, 285-309 2

812 Error Bounds for the Krylov Subspace Methods for Computations of Matrix Exponentials. **2017**, 38, 155-187 9

811 Temperature cycles affect colonization potential of calanoid copepods. **2017**, 419, 77-89 3

810 Dimensional Expanding Precise Time Integration (DE-PTI) for Transient Heat Transfer Analysis of Thermal Protection Systems. **2017**, 1

809 A matrix-exponential decomposition based time-domain method for calculating the defect states of scalar waves in two-dimensional periodic structures. **2017**, 337, 403-420 1

808 An alternating maximization method for approximating the hump of the matrix exponential. **2017**, 57, 609-628 1

807 A Procedure for Deriving Formulas to Convert Transition Rates to Probabilities for Multistate Markov Models. **2017**, 37, 779-789 10

806 Stark broadening of hydrogen lines in magnetic fusion plasmas. **2017**,

805 Second-Order Switching Time Optimization for Switched Dynamical Systems. **2017**, 62, 5407-5414 23

804 Mathematical Basics of Motion and Deformation in Computer Graphics: Second Edition. **2017**, 9, 1-95

803 Symplectic Analysis for Wrinkles: A Case Study of Layered Neo-Hookean Structures. **2017**, 84, 10

802 Energy diffusion in the ergodic phase of a many body localizable spin chain. **2017**, 2017, 053101 27

801	Analysis of the optimal sampling rate for state estimation in sensor networks with delays. **2017**, 68, 293-301		2
800	On the performance of exponential integrators for problems in magnetohydrodynamics. **2017**, 330, 550-565		8
799	The ergodic side of the many-body localization transition. **2017**, 529, 1600350		148
798	Bounds for the remainders of uncertain matrix exponential and sampled-data control of polytopic linear systems. **2017**, 82, 202-208		4
797	A high-order finite difference method for option valuation. **2017**, 74, 652-670		9
796	Dynamic Evaluation of Free-Form Curves and Surfaces. **2017**, 39, B424-B441		3
795	On the algorithm by Al-Mohy and Higham for computing the action of the matrix exponential: A posteriori roundoff error estimation. **2017**, 531, 141-168		4
794	Practical techniques for large-scale Monte Carlo reactor depletion calculatons. **2017**, 101, 409-423		6
793	Analysis of panel data under hidden mover-stayer models. **2017**, 36, 3231-3243		1
792	Quantized/Saturated Control for Sampled-Data Systems Under Noisy Sampling Intervals: A Confluent Vandermonde Matrix Approach. **2017**, 62, 4753-4759		72
791	Testing the association of phenotypes with polyploidy: An example using herbaceous and woody eudicots. **2017**, 71, 1138-1148		16
790	Master equations and the theory of stochastic path integrals. **2017**, 80, 046601		42
789	Closed form solution for the equations of motion for constrained linear mechanical systems and generalizations: An algebraic approach. **2017**, 354, 1421-1445		12
788	Approximation and inference methods for stochastic biochemical kinetics□ tutorial review. **2017**, 50, 093001		180
787	Computing humps of the matrix exponential. *Journal of Computational and Applied Mathematics*, **2017**, 319, 87-96	2.4	8
786	Efficient and Stable Exponential Runge-Kutta Methods for Parabolic Equations. **2017**, 9, 157-172		1
785	Recent developments on the stability of systems with aperiodic sampling: An overview. **2017**, 76, 309-335		194
784	Factorized Schemes of Second-Order Accuracy for Numerically Solving Unsteady Problems. **2017**, 17, 323-335		

783	Semi-analytical solution of land-derived solute transport under tidal fluctuation in a confined aquifer. **2017**, 554, 517-531		8
782	Development and validation of burnup-transport code system OMCB for accelerator driven system. **2017**, 324, 360-371		14
781	Measurement of ionization, attachment, detachment and charge transfer rate coefficients in dry air around the critical electric field. **2017**, 50, 485207		16
780	Stable unitary integrators for the numerical implementation of continuous unitary transformations. *Physical Review B*, **2017**, 96,	3.3	8
779	Algorithm 982. **2017**, 44, 1-4		2
778	ACTYS-1-GO: A faster and accurate algorithm for multipoint nuclear activation calculations. **2017**, 122, 154-162		6
777	Matrices and Matrix Operations. **2017**, 1-68		
776	CONTROL ENERGY AND CONTROLLABILITY OF MULTILAYER NETWORKS. **2017**, 20, 1750008		4
775	BATS Codes: Theory and Practice. **2017**, 10, 1-226		9
774	Determinants. **2017**, 69-120		
773	Euclidean Vector Spaces. **2017**, 121-158		
772	General Vector Spaces. **2017**, 159-198		
771	Linear Transformations. **2017**, 199-225		
770	Linear Transformations and Matrices. **2017**, 227-268		
769	Eigenvalues and Eigenvectors. **2017**, 269-321		
768	Orthogonal Matrices and Quadratic Forms. **2017**, 323-376		
767	Toward an Open-Source Neutronics Code for Circulating-Fuel Reactors. **2017**,		1
766	High order methods for the integration of the Bateman equations and other problems of the form of y?=F(y,t)y. **2017**, 350, 296-313		7

765	Characterizing regions of attraction for piecewise affine systems by continuity of discrete transition functions. **2017**, 90, 2093-2110		5
764	Braiding errors in interacting Majorana quantum wires. *Physical Review B*, **2017**, 96,	3.3	14
763	An introduction to laplacian spectral distances and kernels. **2017**,		6
762	Robust Control of Turbine Engines Using Distributed Networks with Multiple Time Delays. **2017**, 40, 2771-2781		3
761	A hybrid Krylov-subspace-exponential and finite-difference time integration approach for multiscale electromagnetic simulations. **2017**, 36, 1623-1641		
760	Heterometallic Zn Ln Ensembles Containing (□CO) Ligand and Triangular Disposition of Ln ions: Analysis of Single-Molecule Toroic (SMT) and Single-Molecule Magnet (SMM) Behavior. **2017**, 23, 16621-16636		32
759	Mobile Health. **2017**,		11
758	Direct numerical solution of stiff ODE systems in optimal control. **2017**,		1
757	Speedup for quantum optimal control from automatic differentiation based on graphics processing units. *Physical Review A*, **2017**, 95,	2.6	42
756	A 1D radiative transfer benchmark with polarization via doubling and adding. **2017**, 201, 236-250		3
755	ABURN: A material activation calculation code based on CRAM method. **2017**, 125, 659-663		2
754	High-order commutator-free quasi-Magnus exponential integrators for non-autonomous linear evolution equations. **2017**, 220, 243-262		25
753	Line shape models for magnetized hydrogen plasmas. **2017**, 810, 012011		
752	Automatic Smoothness Detection of the Resolvent Krylov Subspace Method for the Approximation of C_0-Semigroups. **2017**, 55, 1483-1504		2
751	Relativistic calculations of differential ionization cross sections: Application to antiproton-hydrogen collisions. *Physical Review A*, **2017**, 95,	2.6	5
750	The effect of communication topology on scalar field estimation by large networks with partially accessible measurements. **2017**,		4
749	A stiffly accurate integrator for elastodynamic problems. **2017**, 36, 1-14		17
748	Computation of the asymptotic states of modulated open quantum systems with a numerically exact realization of the quantum trajectory method. **2017**, 96, 053313		9

747	Computational Complexity Study on Krylov Integration Factor WENO Method for High Spatial Dimension Convection□Diffusion Problems. **2017**, 73, 980-1027		6
746	Green□ matrices for the BVP for the system of ODE of the first order: applications to the beam theories. **2017**, 87, 1605-1627		1
745	Scheme for Detection of Single-Molecule Radical Pair Reaction Using Spin in Diamond. **2017**, 118, 200402		11
744	An effective recursive formula for the Frobenius covariants in matrix functions. **2017**, 5, 113-122		
743	The algebra of complex 2 □2 matrices and a general closed Baker□Campbell□Hausdorff formula. **2017**, 50, 305204		5
742	An Introduction to Laplacian Spectral Distances and Kernels: Theory, Computation, and Applications. **2017**, 9, 1-139		1
741	Development and validation of ACTYS, an activation analysis code. **2017**, 107, 71-81		7
740	Theoretical Aspects of Applying Lamb Waves in Nondestructive Testing of Anisotropic Media. **2017**, 53, 243-259		7
739	Secular obliquity variations of Ceres and Pallas. **2017**, 284, 59-69		10
738	An input-based triggering approach to leader-following problems. **2017**, 75, 221-228		126
737	. **2017**, 32, 1913-1926		11
736	Wave propagation through an inhomogeneous slab sandwiched by the piezoelectric and the piezomagnetic half spaces. **2017**, 73, 22-33		11
735	A weak Local Linearization scheme for stochastic differential equations with multiplicative noise. *Journal of Computational and Applied Mathematics*, **2017**, 313, 202-217	2.4	4
734	Development of a set of benchmark problems to verify numerical methods for solving burnup equations. **2017**, 99, 266-271		4
733	A multi-item approach to repairable stocking and expediting in a fluctuating demand environment. **2017**, 256, 102-115		14
732	Synchronization Control for Large-Scale Network Systems. **2017**,		3
731	Inexact implementation using Krylov subspace methods for large scale exponential discriminant analysis with applications to high dimensionality reduction problems. **2017**, 66, 328-341		11
730	On The Design and Application of Thermal Isolation Servers. **2017**, 16, 1-19		1

729	Computation of Lyapunov Characteristic Exponents Using Parallel Computing. **2017**,		0
728	Calculation of the transformation kernels for the functional transformation method. **2017**,		2
727	Producing coherent excitations in pumped Mott antiferromagnetic insulators. *Physical Review B*, **2017**, 96,	3.3	22
726	Conversion of elastic waves as a result of diffraction in anisotropic layer. **2017**, 208, 012003		1
725	On the Stability of Kalman--Bucy Diffusion Processes. **2017**, 55, 4015-4047		21
724	Gramian-based actuator placement with spillover reduction for active damping of adaptive structures. **2017**,		11
723	Design of quasi-optimal regulators for quadratically-cubic control objects using generalized work criterion. **2017**,		1
722	Global least squares solution for LTI system response. **2017**,		0
721	A New Family of Exponential-Based High-Order DGTD Methods for Modeling 3-D Transient Multiscale Electromagnetic Problems. **2017**, 65, 5960-5974		10
720	. **2017**,		0
719	A Parallel Method for the Computation of Matrix Exponential Based on Truncated Neumann Series. **2017**,		2
718	Convergence Investigation for the Exponential Matrix and Mathematical Layers in the Static Analysis of Multilayered Composite Structures. **2017**, 1, 19		6
717	Krylov Implicit Integration Factor Methods for Semilinear Fourth-Order Equations. **2017**, 5, 63		
716	Scientific Computing. **2017**,		
715	Exploring the exponential integrators with Krylov subspace algorithms for nonlinear circuit simulation. **2017**,		3
714	Observer-based output feedback control for sampled-data system with Markovian packet losses and stochastic sampling. **2017**,		0
713	A Term-Structure Model for Dividends and Interest Rates. *SSRN Electronic Journal*, **2017**,	1	1
712	References. **2017**, 841-846		

711	Numerical solution of systems of partial integral differential equations with application to pricing options. **2018**, 34, 1033-1052		2
710	Drawing Conclusions from Cross-Lagged Relationships: Re-Considering the Role of the Time-Interval. **2018**, 25, 809-823		61
709	Switching Stochastic Nonlinear Systems With Application to an Automotive Throttle. **2018**, 63, 3098-3104		6
708	SEM Based CARMA Time Series Modeling for Arbitrary N. **2018**, 53, 36-56		5
707	Rotation relaxation splitting for optimizing parallel RF excitation pulses with T- and T-relaxations in MRI. *Journal of Magnetic Resonance*, **2018**, 288, 43-57	3	1
706	Computational Krylov-based methods for large-scale differential Sylvester matrix problems. **2018**, 25, e2187		4
705	Numerical analysis of a water wave model with a nonlocal viscous dispersive term using the diffusive approach. **2018**, 41, 4810-4826		2
704	A new Krylov subspace method based on rational approximation to solve stiff burnup equation. **2018**, 118, 99-106		2
703	Improving the Efficiency of Fully Bayesian Optimal Design of Experiments Using Randomised Quasi-Monte Carlo. **2018**, 13,		9
702	chromploid: An R package for chromosome number evolution across the plant tree of life. **2018**, 6, e1037		12
701	Fast and accurate GPU PWR depletion calculation. **2018**, 117, 165-174		5
700	Numerical solution of stochastic quantum master equations using stochastic interacting wave functions. **2018**, 367, 28-48		1
699	Sampling-free Bayesian inversion with adaptive hierarchical tensor representations. **2018**, 34, 035010		6
698	Solving complex PIDE systems for pricing American option under multi-state regime switching jump□diffusion model. **2018**, 75, 2989-3001		7
697	Exponential Rosenbrock-Euler Integrators for Elastodynamic Simulation. **2018**, 24, 2702-2713		10
696	Efficient and accurate method for 2D periodic structures based on the physical features of the transient heat conduction. **2018**, 127, 213-231		6
695	Fourth-Order Time-Stepping For Stiff PDEs On The Sphere. **2018**, 40, A421-A451		2
694	Transfer Function Analysis of Constrained, Distributed Piezoelectric Vibration Energy Harvesting Beam Systems. **2018**, 140,		4

693	A second-order efficient L-stable numerical method for space fractional reaction–diffusion equations. *International Journal of Computer Mathematics*, **2018**, 95, 1408-1422	1.2	1
692	Flexible multistate models for interval-censored data: Specification, estimation, and an application to ageing research. **2018**, 37, 1636-1649		0
691	A shifted block FOM algorithm with deflated restarting for matrix exponential computations. **2018**, 127, 306-323		1
690	Exponential Krylov time integration for modeling multi-frequency optical response with monochromatic sources. *Journal of Computational and Applied Mathematics*, **2018**, 340, 474-485	2.4	5
689	An Unsplit Monte-Carlo solver for the resolution of the linear Boltzmann equation coupled to (stiff) Bateman equations. **2018**, 354, 211-241		5
688	Ranking in Dynamic Graphs Using Exponential Centrality. **2018**, 378-389		
687	Comprehensive solutions to the Bloch equations and dynamical models for open two-level systems. *Physical Review A*, **2018**, 97,	2.6	4
686	Open source Matrix Product States: Opening ways to simulate entangled many-body quantum systems in one dimension. **2018**, 225, 59-91		29
685	Estimating animal utilization densities using continuous-time Markov chain models. **2018**, 9, 1232-1240		14
684	Fast Time Integration of Navier-Stokes Equations with an Exponential-Integrator Scheme. **2018**,		6
683	(H,[]-induced dynamics and large time behaviors. **2018**, 505, 355-373		17
682	On the stability and the uniform propagation of chaos properties of Ensemble Kalman–Bucy filters. **2018**, 28,		24
681	An Exponential Time Integrator for the Incompressible Navier--Stokes Equation. **2018**, 40, B684-B705		6
680	How likely am I to find parking? – A practical model-based framework for predicting parking availability. **2018**, 112, 19-39		33
679	Exponential integrator methods for systems of non-linear space-fractional models with super-diffusion processes in pattern formation. **2018**, 75, 3719-3736		4
678	Continuous inventory control with stochastic and non-stationary Markovian demand. **2018**, 270, 198-217		7
677	A Markov-Chain-Based Method to Characterize Anomalous Diffusion Phenomenon in Unconventional Reservoir. **2018**,		6
676	Finite-Length Analysis of BATS Codes. **2018**, 64, 322-348		9

675	Optimal control of linear systems with fractional derivatives. **2018**, 21, 134-150		11
674	The Dynamics of a Five-level (Double Λ-type Atom Interacting with Two-mode Field in a Cross Kerr-like Medium. **2018**, 57, 1210-1223		2
673	3D transient electromagnetic modeling using a shift-and-invert Krylov subspace method. **2018**, 15, 1341-1349		13
672	Continuous time Markov chain approaches for analyzing transtheoretical models of health behavioral change: A case study and comparison of model estimations. **2018**, 27, 593-607		6
671	Explicit expression-based practical model predictive control implementation for large-scale structures with multi-input delays. **2018**, 24, 2605-2620		5
670	Robust stability bounds for multi-delay networked control systems. **2018**, 91, 755-769		2
669	Love waves on a half-space with a gradient piezoelectric layer by the geometric integration method. **2018**, 25, 847-854		3
668	A modified precise integration method for transient dynamic analysis in structural systems with multiple damping models. *Mechanical Systems and Signal Processing*, **2018**, 98, 613-633	7.8	24
667	Birth/birth-death processes and their computable transition probabilities with biological applications. **2018**, 76, 911-944		17
666	Matrix exponential based discriminant locality preserving projections for feature extraction. **2018**, 97, 127-136		21
665	Beyond spatial scalability limitations with a massively parallel method for linear oscillatory problems. **2018**, 32, 913-933		11
664	Application of finite difference method of lines on the heat equation. **2018**, 34, 626-660		7
663	Real-time time-dependent electronic structure theory. **2018**, 8, e1341		89
662	A modal projection-based reduction method for transient dynamic responses of viscoelastic systems with multiple damping models. **2018**, 194, 60-73		13
661	Conditioning of the matrix-matrix exponentiation. **2018**, 79, 457-477		1
660	Dynamical scattering image simulations for two-phase γ′-microstructures: A theoretical model. **2018**, 185, 32-41		1
659	A new efficient and accurate spline algorithm for the matrix exponential computation. *Journal of Computational and Applied Mathematics*, **2018**, 337, 354-365	2.4	5
658	Efficient time discretization scheme for nonlinear space fractional reaction-diffusion equations. *International Journal of Computer Mathematics*, **2018**, 95, 1274-1291	1.2	5

657	Virtual microphone sensing through vibro-acoustic modelling and Kalman filtering. *Mechanical Systems and Signal Processing*, **2018**, 104, 120-133	7.8	16
656	Efficient evaluation of matrix polynomials. **2018**, 539, 229-250		13
655	Predicting measurements at unobserved locations in an electrical transmission system. **2018**, 33, 1159-1172		1
654	The linear birth-death process: an inferential retrospective. **2018**, 50, 253-269		13
653	Wave energy converter control using observed model predictive control. **2018**,		
652	Why Geometric Numerical Integration?. **2018**, 1-28		2
651	Computational Aspects of Some Exponential Identities. **2018**, 185-229		
650	Efficient calculation of (resonance) Raman spectra and excitation profiles with real-time propagation. **2018**, 149, 174108		14
649	The IICR and the non-stationary structured coalescent: towards demographic inference with arbitrary changes in population structure. **2018**, 121, 663-678		16
648	Control of the helicity of high-order harmonic radiation using bichromatic circularly polarized laser fields. *Physical Review A*, **2018**, 98,	2.6	16
647	Discrete Mechanics, Geometric Integration and Lie–Butcher Series. **2018**,		1
646	Lie Group Integrators. **2018**, 29-69		2
645	Upper Estimates of the Deviations in Linear Dynamical Systems Subjected to Uncertainty. **2018**,		1
644	Stabilization of Systems Under Stochastic Clock Offsets. **2018**,		1
643	Empirical evolution equations. **2018**, 12,		
642	CESAR5.3: Isotopic depletion for Research and Testing Reactor decommissioning. **2018**, 4, 10		2
641	New algorithms for approximating $varphi$-functions and their condition numbers for large sparse matrices. **2018**, 38, 1185-1208		1
640	Joint registration and synthesis using a probabilistic model for alignment of MRI and histological sections. **2018**, 50, 127-144		18

639	A design structure matrix approach for measuring co-change-modularity of software products. **2018**,		1
638	Stochastic Population Models. **2018**, 39, 443-480		
637	Open source matrix product states: exact diagonalization and other entanglement-accurate methods revisited in quantum systems. **2018**, 51, 465302		3
636	A Continuous-Time Approach to Intensive Longitudinal Data: What, Why, and How?. **2018**, 27-54		12
635	Continuous Time Modeling in the Behavioral and Related Sciences. **2018**,		14
634	Efficiency Improvements to Uniformization for Markovian Birth-and-Death Models. **2018**,		
633	ESTIMATING AND COMPARING CANCER PROGRESSION RISKS UNDER VARYING SURVEILLANCE PROTOCOLS. **2018**, 12, 1773-1795		3
632	Observer-based H□Control for Sampled-data System Under Stochastic Sampling. **2018**,		
631	Comparison of the Defuzzification Methods in Risk Assessment Applications. **2018**,		1
630	Development and verification of the activation analysis code AMY. **2018**, 107, 128-135		1
629	Convergence analysis of high-order commutator-free quasi-Magnus exponential integrators for nonautonomous linear evolution equations of parabolic type. **2018**, 38, 743-778		4
628	Implementation of a dislocation-density based single-crystal model into a continuum shock hydrodynamics code. **2018**,		5
627	Bibliography. **2018**, 463-473		
626	Advanced Reduced-Order Models for Moisture Diffusion in Porous Media. **2018**, 124, 965-994		5
625	Modeling of a multilevel voltage source converter using the fast time-domain method. **2018**,		1
624	Efficient Krylov-based exponential time differencing method in application to 3D advection-diffusion-reaction systems. *Applied Mathematics and Computation*, **2018**, 338, 260-273	2.7	2
623	KIOPS: A fast adaptive Krylov subspace solver for exponential integrators. **2018**, 372, 236-255		20
622	Calculation of the Six-Beam Diffraction in Layered Media Using Polynomials of Principal Minors. **2018**, 26, 1850017		2

621	D-convergence and conditional GDN-stability of exponential Runge–Kutta methods for semilinear delay differential equations. *Applied Mathematics and Computation*, **2018**, 339, 45-58	2.7	3
620	General Expressions for Carr-Purcell-Meiboom-Gill Relaxation Dispersion for N-Site Chemical Exchange. **2018**, 57, 4753-4763		11
619	NetLSD. **2018**,		33
618	Laplacian spectral basis functions. **2018**, 65, 31-47		5
617	Computation of Green's Function of the Bounded Solutions Problem. **2018**, 18, 673-685		5
616	Effects of Order of Expansion for the Exponential Matrix and Number of Mathematical Layers in the Exact 3D Static Analysis of Functionally Graded Plates and Shells. **2018**, 8, 110		7
615	Information Theoretic Approaches for Motor-Imagery BCI Systems: Review and Experimental Comparison. **2018**, 20,		15
614	Asymptotic Expansion of Risk-Neutral Pricing Density. **2018**, 6, 30		
613	Faber approximation of the Mori–Zwanzig equation. **2018**, 372, 694-718		14
612	Fast and strongly-consistent per-item resilience in key-value stores. **2018**,		12
611	Closed Form Expressions for the Matrix Exponential and Solutions to State Equations based on a Fundamental Solution. **2018**,		1
610	Simplified recursive relations for the derivatives of Bateman linear chain solution and their application to sensitivity and multi-point analysis. **2018**, 121, 479-486		4
609	Development and Application of an Exponential Method for Integrating Stiff Systems Based on the Classical Runge–Kutta Method. **2018**, 54, 889-899		1
608	Causal compatibility inequalities admitting quantum violations in the triangle structure. *Physical Review A*, **2018**, 98,	2.6	21
607	Essentially nonnegative matrix exponential methods for nuclide transmutation. **2018**, 120, 611-624		1
606	Light-Enhanced Spin Fluctuations and d-Wave Superconductivity at a Phase Boundary. **2018**, 120, 246402		21
605	Numerical solutions to a BBM-Burgers model with a nonlocal viscous term. **2018**, 34, 2279-2300		
604	Networks of infinite-server queues with multiplicative transitions. **2018**, 123-124, 35-49		3

603	Scabies in residential care homes: Modelling, inference and interventions for well-connected population sub-units. **2018**, 14, e1006046		11
602	Decay chain differential equations: Solutions through matrix analysis. **2019**, 234, 188-194		2
601	On-the-fly backward error estimate for matrix exponential approximation by Taylor algorithm. *Journal of Computational and Applied Mathematics*, **2019**, 346, 532-548	2.4	7
600	Adaptive Modal Filters Based on Artificial and Spectral Viscosity Techniques. **2019**, 78, 1132-1151		
599	Extending the intensity model with joint defaults to incorporate the lasting effects from common credit events. **2019**, 35, 681-703		
598	Linear Combination of Independent Exponential Random Variables. **2019**, 21, 253-277		2
597	Half-Explicit Exponential RungeKutta Methods for Index-1 DAEs in Helicopter Simulation. **2019**, 13, 341-365		1
596	A structure preserving flow for computing Hamiltonian matrix exponential. **2019**, 143, 555-582		
595	Electronic circular dichroism with real time time dependent density functional theory: Propagator formalism and gauge dependence. **2019**, 527, 110464		13
594	Integral Methods in Science and Engineering. **2019**,		
593	Solutions of Direct and Inverse Even-Order Sturm-Liouville Problems Using Magnus Expansion. **2019**, 7, 544		4
592	Reliability-Based Design Optimization of Load Sharing Systems Using SSI-Markov Models. **2019**, 3, 34		
591	Unsupervised learning of probabilistic diffeomorphic registration for images and surfaces. **2019**, 57, 226-236		85
590	Scalable M-Channel Critically Sampled Filter Banks for Graph Signals. **2019**, 67, 3954-3969		13
589	Nonlinear sound propagation in two-dimensional curved ducts: a multimodal approach. **2019**, 875, 411-447		1
588	Quantum mechanical MRI simulations: Solving the matrix dimension problem. **2019**, 5, eaaw8962		4
587	Optimal Control of Maximum Output Deviations of a Linear Time-Varying System on a Finite Horizon. **2019**, 80, 1783-1802		6
586	Evolutionary distances corrected for purifying selection and ancestral polymorphisms. **2019**, 483, 110004		2

585	Spectrum-adapted Polynomial Approximation for Matrix Functions. **2019**,		2
584	Time-evolution methods for matrix-product states. **2019**, 411, 167998		159
583	Directed kinetic transition network model. **2019**, 151, 144112		7
582	Helicity of harmonic generation and attosecond polarization with bichromatic circularly polarized laser fields. **2019**, 28, 103204		4
581	On the Simulation of Plasma Waves in HEMTs and the Dyakonov-Shur Instability. **2019**,		1
580	Probing the many-body localization phase transition with superconducting circuits. *Physical Review B*, **2019**, 100,	3.3	14
579	Exponential time differencing for mimetic multilayer ocean models. **2019**, 398, 108900		11
578	Quantum Chemistry in the Age of Quantum Computing. **2019**, 119, 10856-10915		288
577	Decomposition Method for Event-Detection State Vector Simulation of Switched-Mode Power Supplies. **2019**,		1
576	Extended precision rational L□approximations to the matrix exponential. **2019**,		
575	Improved Krylov Precise Time Integration Algorithm for Structural Dynamic Equations. **2019**, 57, 3548-3555		0
574	Matrix product states approaches to operator spreading in ergodic quantum systems. *Physical Review B*, **2019**, 100,	3.3	8
573	A priori parameter identifiability in models with non-rational functions. **2019**, 109, 108513		2
572	Parallel-In-Time Magnus Integrators. **2019**, 41, A2999-A3020		1
571	An Arbitrary Precision Scaling and Squaring Algorithm for the Matrix Exponential. **2019**, 40, 1233-1256		4
570	Systematische Analyse und Entwurf von Regelungseinrichtungen auf Basis von Lyapunov's direkter Methode. **2019**,		1
569	Comparison of Design Tools for Stress Analysis of Adhesively Bonded Joints. **2019**,		4
568	Optical absorption spectroscopy in hybrid systems of plasmons and excitons. **2019**, 11, 2037-2047		2

567	On parameter estimation in an in vitro compartmental model for drug-induced enzyme production in pharmacotherapy. **2019**, 64, 253-277	2
566	Optoelectronic Device Simulations Based on Macroscopic Maxwell–Bloch Equations. **2019**, 2, 1900018	12
565	Numerical verification of affine systems with up to a billion dimensions. **2019**,	11
564	Discrete-Time Large-Signal Modeling and Numerical Methods for Flyback Converters. **2019**,	2
563	Fast orthogonal recurrent neural networks employing a novel parametrisation for orthogonal matrices. **2019**, 163, 11-17	
562	A conservative numerical method for the fractional nonlinear Schrödinger equation in two dimensions. **2019**, 62, 1997-2014	6
561	A Parallel-in-Space-and-Time Method for Transient Electromagnetic Problems. **2019**, 67, 3961-3973	2
560	Using Dynamic Panel Models to Study Age-Related Differences and Time-Related Changes in Personality. **2019**, 33, 420-434	2
559	The Exit Time Finite State Projection Scheme: Bounding Exit Distributions and Occupation Measures of Continuous-Time Markov Chains. **2019**, 41, A748-A769	4
558	A review of automatic differentiation and its efficient implementation. **2019**, 9, e1305	30
557	Exponential integrators with parallel-in-time rational approximations for the shallow-water equations on the rotating sphere. **2019**, 85, 56-65	10
556	IUTAM Symposium on Recent Advances in Moving Boundary Problems in Mechanics. **2019**,	2
555	Simulating transient wave phenomena in acoustic metamaterials using auxiliary fields. **2019**, 86, 175-194	16
554	State-Space Models for Identification. **2019**, 69-106	
553	Analyzing the positivity preservation of numerical methods for the Liouville-von Neumann equation. **2019**, 390, 290-296	5
552	Reliability of semi-Markov missions. **2019**, 35, 63-88	4
551	A Tensor Decomposition Algorithm for Large ODEs with Conservation Laws. **2019**, 19, 23-38	12
550	FEM with Floquet Theory for Non-slender Elastic Columns Subject to Harmonic Applied Axial Force Using 2D and 3D Solid Elements. **2019**, 267-282	

549	Matrix exponential in C/C++ version of vector radiative transfer code IPOL. **2019**, 227, 106-110		10
548	Practical design and implementation methods for Kalman filtering for mission critical applications. **2019**, 66, 239-249		2
547	Performance of the time-dependent variational principle for matrix product states in the long-time evolution of a pure state. *Physical Review B*, **2019**, 99,	3.3	18
546	Modeling effects of banking regulations and supervisory practices on capital adequacy state transition in developing countries. **2019**, 28, 130-159		
545	On the Inverse of the Caputo Matrix Exponential. **2019**, 7, 1137		
544	Parallelization of Pad Approximation of Matrix Exponential with CUDA-Aware MPI. **2019**,		
543	Back Matter. **2019**, 329-364		
542	A Control Strategy for Voltage Unbalance Mitigation in an Islanded Microgrid Considering Demand Side Management Capability. **2019**,		1
541	State of the Art of Researches and Applications of MVDC Distribution Systems in Power Grid. **2019**,		4
540	. **2019**,		0
539	The Method for Parameters Determination of the Air Pollution Nonlinear Integral Criterion. **2019**,		
538	A Hybrid Two-Stage 3D Object Recognition from Orthogonal Projections. **2019**,		
537	Challenges and Opportunities: Quantum Computing in Machine Learning. **2019**,		1
536	Intelligent Application of Consumer Wireless Technologies for Industry. **2019**,		
535	A Data-Sharing Aware and Scalable Cache Miss Rates Model for Multi-Core Processors with Multi-Level Cache Hierarchies. **2019**,		2
534	References. **2019**, 563-575		
533	Dynamic Evaluation of Exponential Polynomial Curves and Surfaces via Basis Transformation. **2019**, 41, A3401-A3420		0
532	Abnormal Behavior Detection: A Comparative Study of Machine Learning Algorithms Using Feature Extraction and a Fully Labeled Dataset. **2019**,		

531 Effect of New Voltage Stabilizers on Electrical Tree Initiation in Polyethylene Blends. **2019**,

530 Computing the Matrix Exponential with an Optimized Taylor Polynomial Approximation. **2019**, 7, 1174 10

529 Research on Reliability Workflow of CNC Machine Tool Design Process. **2019**,

528 Power Divider with Sequential Phase for X-Band Array Antenna Feeding Network Application. **2019**, 0

527 A Blahut-Arimoto Type Algorithm for Computing Classical-Quantum Channel Capacity. **2019**, 4

526 Mobile Service Continuity for Edge Train Networks. **2019**,

525 Fluid-solid Coupling Simulation of Open Jet Angular Velocity Sensor. **2019**,

524 The Advances of OTP Memory for Embedded Applications in HKMG Generation and Beyond. **2019**,

523 Features of Application of Frequency Measurement Technique Based on Spectral Analysis for Real Electrical Power Networks. **2019**, 2

522 Aphonic Voice: A Hand Gesture Based Approach to Convert Sign Language to Speech. **2019**,

521 Distribution System State Estimation with Real-Time Pseudo-Measurements. **2019**, 1

520 Challenges in multimodal notifications for monitoring cyberphysical systems. **2019**, 0

519 Exponential Integration of the Linear Assignment Flow. **2019**, 19, e201900434 1

518 Bounding inferences for large-scale continuous-time Markov chains: A new approach based on lumping and imprecise Markov chains. **2019**, 115, 96-133 2

517 Temporal resolution enhancement of dynamic MRI sequences within a motion-based framework. **2019**, 2019, 4004-4007 1

516 On the Matrix Mittag Leffler Function: Theoretical Properties and Numerical Computation. **2019**, 7, 1140 8

515 Preface. **2019**, xi-xii

514 Introduction. **2019**, 1-24

513 Survey of Distributions. **2019**, 25-44

512 Monte Carlo. **2019**, 45-58

511 Discrete Random Variables. **2019**, 59-73

510 The Normal Distribution. **2019**, 74-109

509 Handling Experimental Data. **2019**, 110-131

508 Mathematics of Random Variables. **2019**, 132-186

507 Bayes. **2019**, 187-257

506 Entropy. **2019**, 258-292

505 Collective Behaviour. **2019**, 293-307

504 Markov Chains. **2019**, 308-348

503 Stochastic Processes. **2019**, 349-390

502 Answers to Exercises. **2019**, 391-444

501 Probability Distributions. **2019**, 445-448

500 Bibliography. **2019**, 449-453

499 Index. **2019**, 454-458

498	Time-dependent density matrix renormalization group quantum dynamics for realistic chemical systems. **2019**, 151, 224101		27
497	Parameter inference in dynamical systems with co-dimension 1 bifurcations. **2019**, 6, 190747		2
496	Boosting the computation of the matrix exponential. *Applied Mathematics and Computation*, **2019**, 340, 206-220	2.7	10

495	Estimating reducible stochastic differential equations by conversion to a least-squares problem. **2019**, 34, 23-46		5
494	A continuous-time Markov chain approach with the analytic likelihood in studies of behavioral changes. **2019**, 48, 5756-5765		
493	Approximate linear minimum variance filters for continuous-discrete state space models: convergence and practical adaptive algorithms. **2019**, 36, 341-378		3
492	Independent component analysis employing exponentials of sparse antisymmetric matrices. **2019**, 325, 172-181		2
491	Computing project makespan distributions: Markovian PERT networks revisited. **2019**, 103, 123-133		4
490	Simply improved averaging for coupled oscillators and weakly nonlinear waves. **2019**, 71, 1-21		2
489	Mining concise patterns on graph-connected itemsets. **2019**, 336, 27-35		
488	Functions and Jordan canonical forms of Riordan matrices. **2019**, 565, 177-207		2
487	Non-satisfiability of a positivity condition for commutator-free exponential integrators of order higher than four. **2019**, 141, 681-691		3
486	Rapid solution of the Bloch-Torrey equation in anisotropic tissue: Application to dynamic susceptibility contrast MRI of cerebral white matter. **2019**, 185, 198-207		20
485	On matrix exponentials and their approximations related to optimization on the Stiefel manifold. **2019**, 13, 1069-1083		3
484	A parallel time integrator for solving the linearized shallow water equations on the rotating sphere. **2019**, 26, e2220		5
483	One-dimensional many-body entangled open quantum systems with tensor network methods. **2019**, 4, 013001		18
482	Numerical calculation of fuel burn-up rate in a cylindrical nuclear reactor. **2019**, 319, 459-470		2
481	Non-normality increases variance of gravity waves trapped in a tilted box. **2019**, 113, 602-622		1
480	Stochastic exponential integrators for a finite element discretisation of SPDEs with additive noise. **2019**, 136, 163-182		4
479	Efficient approximation of functions of some large matrices by partial fraction expansions. *International Journal of Computer Mathematics*, **2019**, 96, 1799-1817	1.2	2
478	Parameter Estimation and Variable Selection for Big Systems of Linear Ordinary Differential Equations: A Matrix-Based Approach. **2019**, 114, 657-667		6

477	Applications of Magnus expansions and pseudospectra to Markov processes. **2019**, 30, 400-425		4
476	Verified computation of the matrix exponential. **2019**, 45, 137-152		7
475	Cooperative Moving-Target Enclosing of Networked Vehicles With Constant Linear Velocities. **2020**, 50, 798-809		15
474	An Efficient and Accurate Time Step Control Method for Power Device Transient Simulation Utilizing Dominant Time Constant Approximation. **2020**, 39, 451-463		0
473	Geometric numerical integration of the assignment flow. **2020**, 36, 034003		15
472	. **2020**, 65, 477-492		10
471	Computable upper error bounds for Krylov approximations to matrix exponentials and associated -functions. **2020**, 60, 157-197		5
470	Variable coefficient depletion equations Reference solution based on Rational Approximation Methods. **2020**, 135, 106909		2
469	Beyond Riemannian geometry: The affine connection setting for transformation groups. **2020**, 169-229		11
468	Accounting for ingrowth of radioactive progeny in dose assessments: generic weighting factors for dose coefficients. **2020**, 40, 83-118		0
467	19 Dubious Ways to Compute the Marginal Likelihood of a Phylogenetic Tree Topology. **2020**, 69, 209-220		14
466	. **2020**, 35, 1231-1241		3
465	Steepest Gradient-Based Orthogonal Precoder for Integer-Forcing MIMO. **2020**, 19, 942-955		2
464	Numerical integrators based on the Magnus expansion for nonlinear dynamical systems. *Applied Mathematics and Computation*, **2020**, 369, 124844	2.7	1
463	A high-order compact finite difference scheme and precise integration method based on modified Hopf-Cole transformation for numerical simulation of n-dimensional Burgers system. *Applied Mathematics and Computation*, **2020**, 372, 125009	2.7	1
462	Adaptive Exponential Time Integration of the Navier-Stokes Equations. **2020**,		1
461	Meta-analysis of Lagged Regression Models: A Continuous-time Approach. **2020**, 27, 396-413		4
460	An interval observer for uncertain continuous-time linear systems. **2020**, 30, 1886-1902		4

459	Extraction and prediction of coherent patterns in incompressible flows through space–time Koopman analysis. **2020**, 402, 132211		4
458	Numerical Methods for Event-Detection State Vector Simulation of Switched-Mode Power Supplies. **2020**, 8, 2285-2292		0
457	Computing functions of very large matrices with small TT/QTT ranks by quadrature formulas. *Journal of Computational and Applied Mathematics*, **2020**, 370, 112663	2.4	0
456	LQG control for sampled-data systems under stochastic sampling. **2020**, 357, 2773-2790		3
455	A literature survey of matrix methods for data science. **2020**, 43, e202000013		7
454	Fundamentals of quantum mechanics in Liouville space. **2020**, 41, 063002		4
453	Serial and Parallel Iterative Splitting Methods: Algorithms and Applications to Fractional Convection-Diffusion Equations. **2020**, 8, 1950		1
452	Thermomechanical Modeling of Microstructure Evolution Caused by Strain-Induced Crystallization. **2020**, 12,		0
451	Formula for the Computation of the Matrix Exponential. **2020**, 51, 345-350		
450	Using Data Assimilation for Quantitative Electroencephalography Analysis. **2020**, 10,		
449	Spectrum-Adapted Polynomial Approximation for Matrix Functions with Applications in Graph Signal Processing. **2020**, 13, 295		
448	NASA Formal Methods. **2020**,		4
447	Kernel density estimation with linked boundary conditions. **2020**, 145, 357-396		7
446	Fitting Network Traffic to Phase-Type Bounds. **2020**,		1
445	Optimal control of coupled quantum systems based on the first-order Magnus expansion: Application to multiple dipole-dipole-coupled molecular rotors. *Physical Review A*, **2020**, 102,	2.6	2
444	Pyrochlore S=12 Heisenberg antiferromagnet at finite temperature. *Physical Review B*, **2020**, 102,	3.3	2
443	A General Matrix Function Dimensionality Reduction Framework and Extension for Manifold Learning. **2020**, PP,		3
442	On Bernoulli matrix polynomials and matrix exponential approximation. *Journal of Computational and Applied Mathematics*, **2020**, 113207	2.4	3

441	Modeling Complex Quantum Dynamics: Evolution of Numerical Algorithms in the HPC Context. **2020**, 41, 1509-1520	
440	Sensitivity-Based Structural Optimal Design With Bi-Directional Beam Propagation Method for Photonic Devices in High-Index-Contrast Waveguides. **2020**, 12, 1-11	2
439	Lung CT Image Registration through Landmark-constrained Learning with Convolutional Neural Network. **2020**, 2020, 1368-1371	1
438	New strategies for determining backward perturbation bound of approximate two-sided Krylov subspaces. **2020**, 27, e2324	
437	Real-time time-dependent density functional theory using density fitting and the continuous fast multipole method. **2020**, 41, 2573-2582	3
436	Solving Burnup Equations by Numerical Inversion of the Laplace Transform Using Pad Rational Approximation. *Nuclear Science and Engineering*, **2020**, 194, 1143-1161	1.2
435	Analysis of two mechanisms of telomere maintenance based on the theory of g-Networks and stochastic automata networks. **2020**, 21, 587	1
434	Regular Celestial Mechanics and the Matrix Exponential. **2020**, 43, 2127-2132	0
433	Real-Time Time-Dependent Electronic Structure Theory. **2020**, 120, 9951-9993	60
432	Computing Enclosures for the Matrix Exponential. **2020**, 41, 1674-1703	2
431	Stabilized explicit methods for the approximation of stochastic systems driven by small additive noises. **2020**, 140, 110195	3
430	Fock-space methods for diffusion: Capturing volume exclusion via fermionic statistics. **2020**, 102, 052101	1
429	Approximation of the matrix exponential for matrices with a skinny field of values. **2020**, 60, 1113-1131	2
428	Continuum mechanical modeling of strain-induced crystallization in polymers. **2020**, 196-197, 129-139	4
427	A second-order exponential time differencing scheme for non-linear reaction-diffusion systems with dimensional splitting. **2020**, 415, 109490	3
426	Industry Tip: Quick and Easy Matrix Exponentials. **2020**, 35, 49-52	
425	Deformable Registration Techniques for Thoracic CT Images. **2020**,	1
424	Prethermalization without Temperature. **2020**, 10,	18

423	Spectral Bayesian Estimation for General Stochastic Hybrid Systems. **2020**, 117, 108989		1
422	Time Complexity of In-Memory Solution of Linear Systems. **2020**, 67, 2945-2951		16
421	Time-parallel simulation of the Schr□dinger Equation. **2020**, 255, 107363		
420	A rotationally invariant semi-autonomous particle swarm optimizer with directional diversity. **2020**, 56, 100700		5
419	Large-scale magnetic resonance simulations: A tutorial. **2020**, 58, 691-717		
418	A TDM-Based 16-Channel AFE ASIC With Enhanced System-Level CMRR for Wearable EEG Recording With Dry Electrodes. **2020**, 14, 516-524		3
417	Statistical Modeling for Biological Systems. **2020**,		0
416	Doubly Enhanced Annuities (DEANs) and the Impact of Quality of Long-Term Care under a Multi-State Model of Activities of Daily Living (ADL). **2020**, 24, 57-99		3
415	Quantum algorithm for solving linear differential equations: Theory and experiment. *Physical Review A*, **2020**, 101,	2.6	16
414	Stability and Convergency Exploration of Matrix Exponential Integration on Power Delivery Network Transient Simulation. **2020**, 39, 2735-2748		3
413	Structural Design and Analysis of a High Reliability Multi-Turn Wound-Rotor Resolver for Electric Vehicle. **2020**, 69, 4992-4999		10
412	Coding closed and open quantum systems in MATLAB: applications in quantum optics and condensed matter. **2020**, 41, 045404		0
411	Numerical Picard Iteration Methods for Simulation of Non-Lipschitz Stochastic Differential Equations. **2020**, 12, 383		2
410	Optical Bloch modeling of femtosecond-laser-induced electron dynamics in dielectrics. **2020**, 101, 063206		4
409	Fast and incremental algorithms for exponential semi-supervised discriminant embedding. **2020**, 108, 107530		0
408	Hybrid infinite time-evolving block decimation algorithm for long-range multidimensional quantum many-body systems. *Physical Review B*, **2020**, 102,	3.3	7
407	A numerical approach to quasi-ballistic transport and plasma oscillations in junctionless nanowire transistors. **2020**, 19, 975-986		3
406	On the Generalized Essential Matrix Correction: An Efficient Solution to the Problem and Its Applications. **2020**, 62, 1107-1120		1

405	Continuous time hidden Markov model for longitudinal data. **2020**, 179, 104646		0
404	Quantum Approximate Optimization Algorithm: Performance, Mechanism, and Implementation on Near-Term Devices. **2020**, 10,		91
403	Explicit exponential RungeKutta methods for semilinear parabolic delay differential equations. **2020**, 178, 366-381		4
402	Optimal control of protein copy number. **2020**, 101, 022118		2
401	Matrix Analysis and Omega Calculus. *SIAM Review*, **2020**, 62, 264-280	7.4	2
400	Bayesian inference and comparison of stochastic transcription elongation models. **2020**, 16, e1006717		3
399	Computing Classical-Quantum Channel Capacity Using Blahut-Arimoto Type Algorithm: A Theoretical and Numerical Analysis. **2020**, 22,		
398	An Overview on the Reliability of Modern Power Electronic Based Power Systems. **2020**, 1, 34-50		39
397	A Low-Cost Lower-Limb Brain-Machine Interface Triggered by Pedaling Motor Imagery for Post-Stroke Patients Rehabilitation. **2020**, 28, 988-996		13
396	An upwind local radial basis functions-differential quadrature (RBFs-DQ) technique to simulate some models arising in water sciences. **2020**, 197, 106844		24
395	Efficient implementation of partitioned stiff exponential Runge-Kutta methods. **2020**, 152, 141-158		1
394	Resource allocation models for material convergence. **2020**, 228, 107646		0
393	Efficient computation of phi-functions in exponential integrators. *Journal of Computational and Applied Mathematics*, **2020**, 374, 112758	2.4	2
392	Multi-defect modelling of bridge deterioration using truncated inspection records. **2020**, 200, 106962		6
391	Collective Intelligence: When, Where and Why. **2020**,		0
390	. **2020**, 5, 4021-4027		17
389	Exponential time differencing for the tracer equations appearing in primitive equation ocean models. **2020**, 365, 113002		5
388	Medical Image Sharing System using Hyperledger Fabric Blockchain. **2020**,		2

387	Exponential sparsity preserving projection with applications to image recognition. **2020**, 104, 107357		4
386	BAYESIAN ANALYSIS OF DOUBLY STOCHASTIC MARKOV PROCESSES IN RELIABILITY. **2021**, 35, 708-729		1
385	Incorporating Animal Movement Into Distance Sampling. **2021**, 116, 107-115		3
384	Computing Safe Sets of Linear Sampled-Data Systems. **2021**, 5, 385-390		1
383	The Inventory and Source Term Simulation of the Argonaut Nuclear Reactor Inside a Severe Accident. **2021**, 207, 316-322		1
382	A critical assessment of design tools for stress analysis of adhesively bonded double lap joints. **2021**, 28, 791-811		2
381	Global error analysis of the Chebyshev rational approximation method. **2021**, 150, 107828		2
380	The probability distribution of the ancestral population size conditioned on the reconstructed phylogenetic tree with occurrence data. **2021**, 509, 110400		3
379	Modelling and understanding count processes through a Markov-modulated non-homogeneous Poisson process framework. **2021**, 290, 177-195		1
378	Optimal averaging time for improving observer accuracy of stochastic dynamical systems. **2021**, 108, 207-219		
377	Coherent state based solutions of the time-dependent Schr□inger equation: hierarchy of approximations to the variational principle. **2021**, 40, 81-125		13
376	Reliability of mission-based k-out-of-n systems with exponential phase durations and component lifetimes. **2021**, 235, 446-457		0
375	New explicit formulas for the some special matrices with fractional derivatives: II. **2021**, 12, 2083-2088		
374	The fidelity of exponential and IMEX integrators for wave turbulence: Introduction of a new near-minimax integrating factor scheme. **2021**, 434, 109992		1
373	Representing Exact Electron Densities by a Single Slater Determinant in Finite Basis Sets. **2021**, 17, 269-276		0
372	Equivalence between the DPG method and the exponential integrators for linear parabolic problems. **2021**, 429, 110016		3
371	QSW_MPI: A framework for parallel simulation of quantum stochastic walks. **2021**, 260, 107724		4
370	A high-order implicit□explicit Runge□Kutta type scheme for the numerical solution of the Kuramoto□ivashinsky equation. *International Journal of Computer Mathematics*, **2021**, 98, 1254-1273	1.2	3

369	Quantized Control of Networked Control Systems Under Stochastic Clock Offsets. **2021**, 51, 3004-3013		2
368	Frequency domain integrals for stability preservation in Galerkin-type projection-based model order reduction. **2021**, 94, 1734-1750		1
367	P2Cavity Operator and Riemannian Curved Edge Length Optimization: a Path to High-Order Mesh Adaptation. **2021**,		
366	Riemannian SOS-Polynomial Normalizing Flows. **2021**, 218-231		
365	Application of Physical Function Model to State Estimations of Nonlinear Mechanical Systems. **2021**, 9, 12002-12018		0
364	MATRIX EXPONENTIAL METHODS FOR PARALLEL COMPUTING OF ISOTOPIC DEPLETION AND SPECIES TRANSPORT FOR MOLTEN SALT REACTOR ANALYSIS. **2021**, 247, 06047		
363	Another Dubious Way to Compute the Exponential of a Matrix. **2021**, 465-478		0
362	Inexact rational Krylov method for evolution equations. **2021**, 61, 473-502		
361	Stability and Stabilization of Sampled-data Systems Subject to Control Input Saturation: a Set Invariant Approach. **2021**, 1-1		2
360	Estimation of the Koopman Generator by Newton's Extrapolation. **2021**, 19, 758-774		1
359	Controlling polarization of attosecond pulses with plasmonic-enhanced bichromatic counter-rotating circularly polarized fields. *Physical Review A*, **2021**, 103,	2.6	5
358	Finite Elements for Higher Order Steel□Concrete Composite Beams. **2021**, 11, 568		1
357	Optimal parameter selection in Weeks□method for numerical Laplace transform inversion based on machine learning. **2021**, 15, 174830262199962		0
356	Arnoldi Algorithms with Structured Orthogonalization. **2021**, 59, 370-400		
355	Encyclopedia of Robotics. **2021**, 1-9		
354	Performance Analysis and Optimal Design of Time-Delay Directed Consensus Networks. **2021**, 1-1		
353	Stabilization of Sampled-data Systems with Noisy Sampling Intervals and Packet Dropouts via A Discrete-time Approach. **2021**, 1-1		3
352	Implementing graph-theoretic quantum algorithms on a silicon photonic quantum walk processor. **2021**, 7,		11

351	. **2021**, 38, 45-64	
350	Vibrational characteristics of rotating soft cylinders. **2021**, 64, 1	0
349	Linear Chain Method for Numerical Modelling of Burnup Systems. **2021**, 14, 1520	13
348	Material point method simulations using an approximate full mass matrix inverse. **2021**, 377, 113667	1
347	Direct statistical inference for finite Markov jump processes via the matrix exponential. **2021**, 1-25	2
346	Atomic, molecular and optical physics applications of longitudinally coherent and narrow bandwidth Free-Electron Lasers. **2021**, 904, 1-59	13
345	Estimating parameters of a stochastic cell invasion model with fluorescent cell cycle labelling using Approximate Bayesian Computation.	1
344	Healthy longevity from incidence-based models: More kinds of health than stars in the sky.	1
343	Why Improving the Accuracy of Exponential Integrators Can Decrease Their Computational Cost?. **2021**, 9, 1008	
342	On time-discretized versions of the stochastic SIS epidemic model: a comparative analysis. **2021**, 82, 46	1
341	Intermittency as metastability: A predictive approach to evolution in rugged landscapes. **2021**, 134, 28002	1
340	Studying models of balancing selection using phase-type theory. **2021**, 218,	3
339	Computing the matrix sine and cosine simultaneously with a reduced number of products. **2021**, 163, 96-107	2
338	Analytical modeling of one-dimensional resonant asymmetric and reciprocal acoustic structures as Willis materials. **2021**, 23, 053020	7
337	The Legacy of Peter Wynn. **2021**, 9, 1240	2
336	An Accurate Restarting for Shift-and-Invert Krylov Subspaces Computing Matrix Exponential Actions of Nonsymmetric Matrices. **2021**, 61, 684-698	1
335	A mutation-selection model of protein evolution under persistent positive selection.	0
334	Linearly Stabilized Schemes for the Time Integration of Stiff Nonlinear PDEs. **2021**, 87, 1	

333	Low-Memory Implementation of PITD Method Using a Thresholding Scheme. **2021**, 31, 537-540		0
332	Approximate dynamics leading to more optimal control: Efficient exact derivatives. *Physical Review A*, **2021**, 103,	2.6	2
331	The Jacobian of the exponential function. **2021**, 127, 104122		2
330	Exponential integrators for large-scale stiff Riccati differential equations. *Journal of Computational and Applied Mathematics*, **2021**, 389, 113360	2.4	0
329	A Kronecker Algebra Formulation for Markov Activity Networks with Phase-Type Distributions. **2021**, 9, 1404		1
328	Numerical Approximation of Poisson Problems in Long Domains. 1		
327	Implied Markov transition matrices under structural price models. 1-20		1
326	Fully anisotropic hyperelasto-plasticity with exponential approximation by power series and scaling/squaring. **2021**, 68, 391		0
325	An accurate and efficient Chebyshev expansion method for large-scale transient heat conduction problems. **2021**, 249, 106513		1
324	Krylov SSP Integrating Factor RungeKutta WENO Methods. **2021**, 9, 1483		0
323	Efficient Evaluation of Matrix Polynomials beyond the PatersonStockmeyer Method. **2021**, 9, 1600		1
322	Cayley-transform-based gradient and conjugate gradient algorithms on Grassmann manifolds. **2021**, 47, 1		0
321	A Numerical Approach for Evaluating the Time-Dependent Distribution of a Quasi Birth-Death Process. 1		1
320	Healthy longevity from incidence-based models: More kinds of health than stars in the sky. 45, 397-452		1
319	Inventory systems with stochastic and batch demand: computational approaches. 1		2
318	Scattering Matrix Determination in Crystalline Materials from 4D Scanning Transmission Electron Microscopy at a Single Defocus Value. **2021**, 27, 744-757		1
317	Accuracy and performance analysis for Bloch and Bloch-McConnell simulation methods. *Journal of Magnetic Resonance*, **2021**, 329, 107011	3	0
316	Spectrum-Free and Meshless Solvers of Parabolic PDEs. **2021**, 88, 1		

315	Steady-state density preserving method for stochastic mechanical systems. **2021**, 136, 1		0
314	Fast estimation of matrix exponential spatial models. **2021**, 2, 1		1
313	Estimating parameters of a stochastic cell invasion model with fluorescent cell cycle labelling using approximate Bayesian computation. **2021**, 18, 20210362		3
312	Parallel time integration using Batched BLAS (Basic Linear Algebra Subprograms) routines. **2021**, 108181		1
311	A flux-enriched Godunov method for multi-material problems with interface slide and void opening. **2021**, 442, 110499		5
310	Direct energy minimization based on exponential transformation in density functional calculations of finite and extended systems. **2021**, 267, 108047		2
309	Parallel exponential time differencing methods for geophysical flow simulations. **2021**, 387, 114151		1
308	Development of computer code ADWITA and data library for the solution of transmutation chain equations and application to the analysis of nuclear fuel cycles. **2021**, 164, 108619		
307	Stability analysis of higher-order neutronics-depletion coupling schemes and Bateman operators. **2022**, 448, 110702		1
306	A Review and Challenges in Chemical Master Equation. **2021**, 29-54		0
305	Learning Linear Assignment Flows for Image Labeling via Exponential Integration. **2021**, 385-397		3
304	TEDS-Net: Enforcing Diffeomorphisms in Spatial Transformers to Guarantee Topology Preservation in Segmentations. **2021**, 250-260		3
303	A Multiprecision Derivative-Free Schur--Parlett Algorithm for Computing Matrix Functions. **2021**, 42, 1401-1422		2
302	Maximum Bound Principles for a Class of Semilinear Parabolic Equations and Exponential Time-Differencing Schemes. *SIAM Review*, **2021**, 63, 317-359	7.4	26
301	SIERE. **2021**, 40, 1-12		2
300	Optimal Firm Contributions to Open Source Software. **2005**, 197-212		1
299	Local Linearization-Runge Kutta (LLRK) Methods for Solving Ordinary Differential Equations. **2006**, 132-139		2
298	Parallelising Matrix Operations on Clusters for an Optimal Control-Based Quantum Compiler. **2006**, 751-762		8

297	Core Isotopic Depletion and Fuel Management. **2010**, 1241-1312	3
296	Lattice Physics Computations. **2010**, 913-1239	29
295	Stochastic Modelling of T Cell Homeostasis for Two Competing Clonotypes Via the Master Equation. **2011**, 207-225	1
294	Ab Initio Methods for Few- and Many-Electron Atomic Systems in Intense Short-Pulse Laser Light. **2011**, 107-134	6
293	Sparse PCA: Convex Relaxations, Algorithms and Applications. **2012**, 915-940	20
292	Linear Dynamics and Control of Brain Networks. **2020**, 497-518	5
291	Unbounded-Time Safety Verification of Stochastic Differential Dynamics. **2020**, 327-348	1
290	Case Study: Parametrized Reduction Using Reduced-Basis and the Loewner Framework. **2014**, 51-66	1
289	Batch Matrix Exponentiation. **2014**, 45-67	2
288	Solving Ordinary Differential Equations. **2014**, 299-358	1
287	Mori-Zwanzig Approach to Uncertainty Quantification. **2016**, 1-36	1
286	Queueing Models for Performance Evaluation of Computer Networks□ransient State Analysis. **2015**, 51-80	5
285	Mori-Zwanzig Approach to Uncertainty Quantification. **2017**, 1037-1073	2
284	Introduction. **2015**, 1-51	1
283	A Study of IP Router Queues with the Use of Markov Models. **2016**, 294-305	7
282	Operator Splitting. **2016**, 95-114	28
281	Learning Continuous-Time Hidden Markov Models for Event Data. **2017**, 361-387	1
280	GPU Based Mixed Precision PWR Depletion Calculation. **2017**, 127-136	1

279	Continuous Time Modelling Based on an Exact Discrete Time Representation. **2018**, 317-357	7
278	Adaptive Graph Diffusion Regularisation for Discontinuity Preserving Image Registration. **2018**, 24-34	7
277	The HLRB Cluster as Quantum CISC Compiler. **2009**, 517-533	1
276	Encyclopedia of Applied and Computational Mathematics. **2015**, 25-33	3
275	Matrix Functions. **2008**, 275-303	22
274	Sliding Window Abstraction for Infinite Markov Chains. **2009**, 337-352	33
273	An Implementation Framework for Solving High-Dimensional PDEs on Massively Parallel Computers. **2010**, 417-424	2
272	Hedging CDO Tranches in a Markovian Environment. **2011**, 1-61	18
271	Analyzing Reachability of Linear Dynamic Systems with Parametric Uncertainties. **2011**, 69-94	12
270	Markov Bridges, Bisection and Variance Reduction. **2012**, 3-22	4
269	Using Colored Petri Nets to Construct Coalescent Hidden Markov Models: Automatic Translation from Demographic Specifications to Efficient Inference Methods. **2012**, 32-50	2
268	Timed Relational Abstractions for Sampled Data Control Systems. **2012**, 343-361	11
267	A Parallel Overlapping Time-Domain Decomposition Method for ODEs. **2013**, 459-466	6
266	Quasi Product Form Approximation for Markov Models of Reaction Networks. **2012**, 26-52	3
265	Time Propagation of Many-Body Quantum States on Graphics Processing Units. **2013**, 141-152	1
264	Analytical and Numerical Means to Model Transient States in Computer Networks. **2013**, 426-435	5
263	A General Metric for Riemannian Manifold Hamiltonian Monte Carlo. **2013**, 327-334	20
262	Introduction to LPV Systems. **2015**, 3-36	8

261	Density Matrix Methods in Linear Scaling Electronic Structure Theory. **2011**, 439-473		3
260	Exponential Fourier Collocation Methods for First-Order Differential Equations. **2018**, 55-84		1
259	Dynamic analysis of an aeroelastic airfoil with freeplay nonlinearity by precise integration method based on Pad approximation. **2017**, 89, 2173-2194		15
258	Neuronal models of ensemble dynamics. **2007**, 391-405		1
257	Pseudospectral computational methods for the time-dependent Dirac equation in static curved spaces. **2020**, 411, 109412		7
256	Stochastic optimal control for sampled-data system under stochastic sampling. **2018**, 12, 1553-1560		7
255	Supervised learning of time-independent Hamiltonians for gate design. **2020**, 22, 065001		7
254	Molecular Evolution. **2014**,		146
253	Studying models of balancing selection using phase-type theory.		0
252	Parameter inference in dynamical systems with co-dimension 1 bifurcations.		0
251	Power-law entanglement growth from typical product states. *Physical Review Research*, **2019**, 1,	3.9	6
250	Deep Compositing Using Lie Algebras. **2017**, 36, 1-12		4
249	Piece-wise analytic trajectory computation for polytopic switching between stable affine systems. **2020**,		1
248	Modeling Resources to Simulate Business Process Reliability. **2020**, 30, 1-25		1
247	A new high-order compact finite difference scheme based on precise integration method for the numerical simulation of parabolic equations. **2020**, 2020,		2
246	Numerical integration of the master equation in some models of stochastic epidemiology. **2012**, 7, e36160		22
245	Revisiting bistability in the lysis/lysogeny circuit of bacteriophage lambda. **2014**, 9, e100876		32
244	Relative error analysis of matrix exponential approximations for numerical integration. **2020**,		2

243	Fast Calibration of Interest Rate Claims in the Quadratic Gaussian Model: 1 The Caplets. *SSRN Electronic Journal*,	1	3
242	A Multi-Portfolio Model for Bespoke CDO Pricing Part I: Methodology. *SSRN Electronic Journal*,	1	1
241	Fast Calibration of Interest Rate Claims in the Quadratic Gaussian Model : 2 the Swaptions. *SSRN Electronic Journal*,	1	1
240	Pricing Synthetic CDO Tranches in a Model with Default Contagion Using the Matrix-Analytic Approach. *SSRN Electronic Journal*,	1	4
239	Solving Stiff Reaction-Diffusion Equations Using Exponential Time Differences Methods. **2018**, 08, 55-67		2
238	Matrix Padé-Type Method for Computing the Matrix Exponential. **2011**, 02, 247-253		4
237	Future Theoretical Approaches in Nuclear Magnetic Resonance. **2014**, 05, 145-148		3
236	Two Theoretical Approaches in Solid-State Nuclear Magnetic Resonance Spectroscopy. **2014**, 05, 458-463		3
235	Numerical Simulation of Rotor-Fuselage Aerodynamic Interaction Using an Unstructured Overset Mesh Technique. **2010**, 11, 1-9		7
234	Finding Optimal Controls for Helicopter Maneuvers Using the Direct Multiple-Shooting Method. **2010**, 11, 10-18		1
233	AEGIS: AN ADVANCED LATTICE PHYSICS CODE FOR LIGHT WATER REACTOR ANALYSES. **2010**, 42, 500-519		20
232	Estimation of Kinetic Parameters in Stochastic Biomedical Models Using Estimation Theory. **2021**,		
231	Air-flow control in fuel cells using delay-based load governor and feedforward augmented dynamic inversion. **2021**,		0
230	Solving anisotropic heat equations by exponential shift-and-invert and polynomial Krylov subspace methods. **2021**, 2028, 012021		
229	Subdomain-based exponential integrators for quantum Liouville-type equations. **2021**, 20, 2070		1
228	Calculating a function of a matrix with a real spectrum. 1		
227	A mutation-selection model of protein evolution under persistent positive selection. **2021**,		1
226	A practical guide to writing a radiative transfer code. **2021**, 108198		1

225	Search for efficient formulations for Hamiltonian simulation of non-Abelian lattice gauge theories. **2021**, 104,		7
224	Fermi's golden rule for heating in strongly driven Floquet systems. *Physical Review B*, **2021**, 104,	3.3	1
223	Operations on Lists, and Linear Algebra. **2004**, 700-1001		
222	. **2004**, 159-179		
221	Moment Methods for Exotic Volatility Derivatives. *SSRN Electronic Journal*,	1	3
220	Model Weight Estimation for FDI Using Convex Fault Models. **2007**, 795-800		
219	Model Checking Markov Chains Using Krylov Subspace Methods: An Experience Report. **2010**, 115-130		
218	Universal Sea Target Tracking with Angle-only Measurements. **2010**,		1
217	On the Transient Behavior of the Maximum Level Length in Structured Markov Chains. **2011**, 379-390		1
216	Kinetic Modelling. **2011**, 387-403		1
215	Smooth Conditional Transition Paths in Dynamical Gaussian Networks. **2011**, 204-215		
214	On FastICA Algorithms and Some Generalisations. **2011**, 403-432		1
213	Stochastic Processes. 79-157		
212	Matrix Methods. **2012**, 109-157		
211	References. **2012**, 355-373		
210	A Nearly-Sublinear Method for Approximating a Column of the Matrix Exponential for Matrices from Large, Sparse Networks. **2013**, 68-79		3
209	Tensor Methods in Computer Vision. 9-188		1
208	Functions of Matrices. **2013**, 279-293		

207 Operator Semigroups. **2014**, 77-117

206 Phylogeny reconstruction: overview. **2014**, 70-101

205 Comparison of phylogenetic methods and tests on trees. **2014**, 153-181

204 Molecular clock and estimation of species divergence times. **2014**, 361-389

203 Models of amino acid and codon substitution. **2014**, 35-69

202 Maximum likelihood methods. **2014**, 102-152

201 Bayesian theory. **2014**, 182-213

200 Simulating molecular evolution. **2014**, 418-441 0

199 Neutral and adaptive protein evolution. **2014**, 390-417

198 Appendices. **2014**, 442-449

197 Bayesian phylogenetics. **2014**, 263-307

196 Coalescent theory and species trees. **2014**, 308-360

195 Bayesian computation (MCMC). **2014**, 214-262

194 Matrix Eigenvalue Problems. **2015**, 431-612

193 Theories in Spin Dynamics of Solid-State Nuclear Magnetic Resonance Spectroscopy. **2015**, 05, 27-42

192 Exploiting the Eigenstructure of Linear Systems to Speed up Reachability Computations. **2015**, 111-127

191 Sequential Interpolation. **2016**, 39-59

190 SOLVING STOCHASTIC CHEMICAL KINETICS BY METROPOLIS-HASTINGS SAMPLING. **2016**, 6, 322-335

189	An Input-Based Triggering Approach to LSNSs. **2017**, 93-113	
188	Eigenvalues and Eigenvectors. **2017**, 1-201	
187	APPROXIMATION OF THE LINEAR COMBINATION OF □FUNCTIONS USING THE BLOCK SHIFT-AND-INVERT KRYLOV SUBSPACE METHOD. **2017**, 7, 1402-1416	
186	Modern Finite Difference Approach. **2017**, 21-58	
185	Pseudoparabolic Equations for Various L□y Models. **2017**, 135-181	
184	Stochastic Filtering Methods in Electronic Trading. **2017**, 503-542	
183	Jordan Canonical Form with Parameters from Frobenius Form with Parameters. **2017**, 179-194	1
182	Kinetic Modeling. **2017**, 559-580	
181	Deep Compositing Using Lie Algebras. **2017**, 36, 1	0
180	Development of exponential integrator based on classical Runge□Kutta method and it's application for solving stiff systems. **2018**, 1-24	1
179	On Lawson method and stiff order conditions. **2018**, 1-26	3
178	Stability Analysis of Rotating Blade Vibrations Using Lyapunov Exponents. **2018**, 5, 11-23	
177	Space-Time Interpolants. **2018**, 468-486	3
176	Langevin and Kalman Importance Sampling for Nonlinear Continuous-Discrete State-Space Models. **2018**, 389-435	
175	The IICR and the non-stationary structured coalescent: demographic inference with arbitrary changes in population structure.	1
174	Computing Inferences for Large-Scale Continuous-Time Markov Chains by Combining Lumping with Imprecision. **2019**, 78-86	2
173	Systems of First-Order Linear Equations. **2019**, 465-533	
172	References. 1109-1115	

171	Bayesian inference and comparison of stochastic transcription elongation models.		1
170	Simple Rules for Predicting Congestion Risk in Queueing Systems: Application to ICUs. *SSRN Electronic Journal*,	1	0
169	Tensor Product Approach to Quantum Control. **2019**, 367-379		1
168	On a Generalization of Neumann Series of Bessel Functions Using Hessenberg Matrices and Matrix Exponentials. **2019**, 205-214		
167	Inference of Counts Using Markov-Modulated Non-Homogeneous Poisson Processes. *SSRN Electronic Journal*,	1	
166	Operator-based representations of discrete tangent vector fields. **2019**, 20, 117-147		
165	Causal Dynamic Constitutive Relations for Lossy Dispersive Dielectrics. **2019**,		1
164	Completely Positive Trace Preserving Numerical Methods for Long-Term Generalized Maxwell-Bloch Simulations. **2019**,		
163	Continuous-Time Latent Markov Factor Analysis for Exploring Measurement Model Changes Across Time. **2019**, 15, 29-42		4
162	The Probability Companion for Engineering and Computer Science. **2019**,		
161	Verifying Band Convergence for Sampled Control Systems. **2020**, 329-349		
160	Hydrocarbon fuels combustion simulation with EPIRK4(3) method. **2020**, 1-28		
159	New Matrix Series Formulae for Matrix Exponentials and for the Solution of Linear Systems of Algebraic Equations.		0
158	Geometric modeling and regularization of algebraic problems. **2020**,		
157	Mathematical Modeling of Multiple Pathways in Colorectal Carcinogenesis using Dynamical Systems with Kronecker Structure.		0
156	References. **2022**, 379-387		
155	Data Structure Assisted Accelerated Reconstruction Strategy for Handheld Photoacoustic Imaging. **2020**, 159-181		
154	Metamorphic Relations Identification on Chebyshev Rational Approximation Method in the Nuclide Depletion Calculation Program. **2020**,		0

153	Method for calculating multiwave scattering by layered anisotropic media. **2020**, 99, 102664	0
152	Systeme von Differenzialgleichungen. **2021**, 157-186	
151	Dynamic Output Feedback Control of a Sampled-Data System Under Stochastic Sampling. **2020**,	
150	Adaptive Time Propagation for Time-dependent Schr□dinger equations. **2021**, 7, 6	1
149	Fast sixth-order algorithm based on the generalized Cayley transform for the Zakharov-Shabat system associated with nonlinear Schrodinger equation. **2022**, 448, 110764	
148	Well-Mixed Stochastic Reaction Kinetics. **2020**, 1-36	
147	Sparsity Preserving Discretization With Error Bounds. **2020**, 53, 3204-3209	
146	Parameter Estimation for Multivariate Nonlinear Stochastic Differential Equation Models: A Comparison Study. **2020**, 245-258	
145	Commentaries and Further Developments. **2020**, 169-215	
144	Residual and Restarting in Krylov Subspace Evaluation of the $varphi$ Function. **2021**, 43, A3733-A3759	
143	Efficient Computation of Radioactive Decay with Graph Algorithms. **2020**, 18, 19-29	
142	Multiple Bragg reflection by a thick mosaic crystal. II. Simplified transport equation solved on a grid. **2020**, 76, 376-389	1
141	High-order numerical solutions to the shallow-water equations on the rotated cubed-sphere grid. **2021**, 110792	0
140	All-electron real-time and imaginary-time time-dependent density functional theory within a numeric atom-centered basis function framework. **2021**, 155, 154801	3
139	A study of defect-based error estimates for the Krylov approximation of □functions. 1	1
138	Graph Heat Kernel Based Image Smoothing. 302-330	
137	A Stochastic Monetary Policy Interest Rate Model. **2008**, 343-392	3
136	Quantum circuit design methodology for multiple linear regression. **2020**, 1, 55	0

135	A mathematical model and inference method for bacterial colonization in hospital units applied to active surveillance data for carbapenem-resistant enterobacteriaceae. **2020**, 15, e0231754		
134	A computationally tractable birth-death model that combines phylogenetic and epidemiological data.		0
133	Optical vortices in waveguides with discrete and continuous rotational symmetry. **2021**, 17,		0
132	Orbitally selective resonant photodoping to enhance superconductivity. *Physical Review B*, **2021**, 104,	3.3	0
131	OUP accepted manuscript.		
130	Computing the Control Input for State Transfer Problem in Efficient Way for Classroom Teaching. **2020**,		1
129	Explicit transient probabilities of various Markov models. **2021**, 97-151		1
128	High-Performance Computation of the Exponential of a Large Sparse Matrix. **2021**, 42, 1636-1655		0
127	Simulating deformable objects for computer animation: A numerical perspective. **2021**,		1
126	Pricing variance swaps under subordinated Jacobi stochastic volatility models. **2022**, 593, 126941		
125	Efficient and accurate computation for the $$varphi$$-functions arising from exponential integrators. **2022**, 59, 1		1
124	Influence of Energy Dissipation on Spin Pole Precession Trajectories for Synchronous Rotators. **2022**, 3, 18		
123	Identification of Linear Time-Invariant Systems with Dynamic Mode Decomposition. **2022**, 10, 418		1
122	Efficient Magnus-type integrators for solar energy conversion in Hubbard models. **2022**, 2, 100018		0
121	Two Taylor Algorithms for Computing the Action of the Matrix Exponential on a Vector. **2022**, 15, 48		0
120	A study on the solution of the spatial kinetics equations in the neutron diffusion theory. **2022**, 145, 104113		0
119	Closed form parametrisation of 3D clothoids by arclength with both linear varying curvature and torsion. *Applied Mathematics and Computation*, **2022**, 421, 126907	2.7	
118	How perturbations in the matrix of linear systems of ordinary differential equations propagate along solutions. *Journal of Computational and Applied Mathematics*, **2022**, 407, 114046	2.4	

117	Solving anisotropic heat equations by exponential shift-and-invert and polynomial Krylov subspace methods. **2022**, 1-17	
116	Full discretization error analysis of exponential integrators for semilinear wave equations.	
115	A computationally tractable birth-death model that combines phylogenetic and epidemiological data.. **2022**, 18, e1009805	0
114	Technical Note□On Matrix Exponential Differentiation with Application to Weighted Sum Distributions.	
113	Transient growth analysis of hypersonic flow over an elliptic cone. **2022**, 935,	0
112	Efficient low-scaling computation of NMR shieldings at the second-order M□ller-Plesset perturbation theory level with Cholesky-decomposed densities and an attenuated Coulomb metric.. **2021**, 155, 224107	2
111	Computation of Control Law for State Transfer Problem in Efficient Way for a Single Input. **2022**, 1-1	
110	On the Use of Cayley Transform for Kinematic Shape Reconstruction of Soft Continuum Robots. **2022**, 867-875	
109	Qualitative and Analytical Treatment of Nonlinear Dynamical Systems in Neurological Diseases. **2022**, 85-114	
108	Erg□zende numerische Verfahren. **2022**, 165-236	
107	Constant upper bounds on the matrix exponential norm. **2022**, 37, 15-23	
106	A study of a nonlinear interaction between a two-mode cavity field and ?-type four-level with field damping. **2022**, 37,	
105	Fast computation of matrix function-based centrality measures for layer-coupled multiplex networks.. **2022**, 105, 034305	0
104	Development of a Trajectory Period Folding Method for Burnup Calculations. **2022**, 15, 2245	4
103	Consistent modeling of the coupling between crystallographic slip and martensitic phase transformation for mechanically induced loadings.	0
102	Waves and heaviside propagator in transmission lines. 1-36	
101	CNETML: Maximum likelihood inference of phylogeny from copy number profiles of spatio-temporal samples.	
100	Isochronic Evolution and the Radioactive Decay of r-process Nuclei. **2022**, 929, 22	1

99	An explicit numerical scheme for the computer simulation of the stochastic transport equation. **2022**, 110, 106378		
98	MZK Program for Solving Stiff Systems in Nuclide Kinetics Problems. **2021**, 130, 344-347		0
97	State Estimation of Articulated Vehicles Using Deformed Superellipses. **2021**,		
96	Scalable robust output feedback MPC of linear sampled-data systems. **2021**,		
95	Modelling of Electric Vehicle with PID Controller Transfer Function using GA and Model-Reduced Order DRA Algorithm. **2021**, 9, 135-142		3
94	Comparative analyses of electrical circuits with conventional and revisited definitions of circuit elements: a fractional conformable calculus approach. **2022**, 41, 258-282		0
93	Moments and polynomial expansions in discrete matrix-analytic models. **2021**,		
92	Numerical recipes for faster MAS-DNP simulations. *Journal of Magnetic Resonance*, **2021**, 333, 107106	3	1
91	Exponential Time Differencing Schemes for Fuel Depletion and Transport in Molten Salt Reactors: Theory and Implementation. *Nuclear Science and Engineering*, **2022**, 196, 497-525	1.2	
90	Quantum Machine Learning. **2022**, 543-591		0
89	Transport in Stark many-body localized systems. *Physical Review B*, **2022**, 105,	3.3	0
88	Data-Specific Anisotropic Mexican Hat Wavelets for Structure-Preserving Image Processing. *Scientific Programming*, **2022**, 2022, 1-13	1.4	0
87	Exponential Multistep Methods for Stiff Delay Differential Equations. *Axioms*, **2022**, 11, 185	1.6	1
86	The Exponential of Quasi Block-Toeplitz Matrices. *Acta Mathematica Scientia*, **2022**, 42, 1018-1034	0.7	
85	A Technique for Improving the Computation of Functions of Triangular Matrices. *International Journal of Computer Mathematics*, 1-0	1.2	
84	Exponential integration for efficient and accurate multibody simulation with stiff viscoelastic contacts. *Multibody System Dynamics*,	2.8	1
83	Lagrange-NG: The next generation of Lagrange.		
82	Bose-Hubbard realization of fracton defects. *Physical Review Research*, **2022**, 4,	3.9	0

81	Identifiability analysis of linear ordinary differential equation´systems with a single trajectory. *Applied Mathematics and Computation*, **2022**, 430, 127260	2.7	
80	Fast gradient algorithm with toral decomposition for complex ICA. *Mechanical Systems and Signal Processing*, **2022**, 178, 109266	7.8	
79	Numerical computation of eigenvalues in spectral gaps of Schr□dinger operators. *Journal of Computational and Applied Mathematics*, **2022**, 114462	2.4	0
78	Categorization of Knowledge Graph based Recommendation Methods and Benchmark Datasets from the Perspectives of Application Scenarios: A Comprehensive Survey. *Expert Systems With Applications*, **2022**, 117737	7.8	1
77	Collective bosonic effects in an array of transmon devices. *Physical Review A*, **2022**, 105,	2.6	0
76	Standard Transform Analysis for Asset Pricing and Parameter Estimation. *SSRN Electronic Journal*,	1	
75	Molecular Noise In Synaptic Communication. *IEEE Transactions on Nanobioscience*, **2022**, 1-1	3.4	1
74	Damping perturbation based time integration asymptotic method for structural dynamics. *International Journal of Computational Methods*,	1.1	
73	A scalable approach for continuous time Markov models with covariates.		
72	Influence of flow and susceptibility effects on spin dephasing in lung tissue. *Medical Physics*,	4.4	
71	A Zener Model for Nonlinear Viscoelastic Waves. *SSRN Electronic Journal*,	1	
70	A Lanczos-like method for non-autonomous linear ordinary differential equations. *Bolletino Dell Unione Matematica Italiana*,	0.6	0
69	Time-scale Investigation with the Modified Phase Field Crystal Method. *Modelling and Simulation in Materials Science and Engineering*,	2	0
68	Exact Bayesian inference for discretely observed Markov Jump Processes using finite rate matrices. *Journal of Computational and Graphical Statistics*, 1-27	1.4	
67	Predicting slow relaxation timescales in open quantum systems. *Journal of Mathematical Chemistry*,	2.1	
66	Exploring Inductive Linearization for simulation and estimation with an application to the Michaelis□Menten model. *Journal of Pharmacokinetics and Pharmacodynamics*,	2.7	
65	Counting generations in birth and death processes with competing Erlang and exponential waiting times. *Scientific Reports*, **2022**, 12,	4.9	
64	The Legendre Polynomial Axial Expansion Method. *Nuclear Science and Engineering*, 1-17	1.2	0

63	Preface. **2014**, vii-viii	
62	Copyright Page. **2014**, iv-iv	
61	Foreword. **2014**, v-vi	
60	Bayesian Computations for Reliability Analysis in Dynamic Environments. **2022**, 101-120	
59	Nonlinear Schr□inger Equation and the Hyperbolization Method. **2022**, 62, 1112-1130	
58	Combining DPG in space with DPG time-marching scheme for the transient advection□eaction equation. **2022**, 115471	
57	BTE-Barna: An extension of almaBTE for thermal simulation of devices based on 2D materials. **2022** , 108504	
56	Computing the Lyapunov operator □unctions, with an application to matrix-valued exponential integrators. **2022**,	
55	A consistent algorithm for finite-strain visco-hyperelasticity and visco-plasticity of amorphous polymers. **2022**, 400, 115528	
54	Efficient adaptive step size control for exponential integrators. **2022**, 123, 59-74	0
53	Numerical implementation of the multiplicative hyperelastic-based Extended Subloading Surface plasticity model. **2022**, 401, 115612	0
52	Time Domain State Space Solver for Microwave Systems Based on Laguerre Polynomials. **2022**, 55, 25-30	0
51	Diffraction of High Energy Electrons. **2022**, 123-147	0
50	Seemingly Unrelated Multi-State Processes: A Bayesian Semiparametric Approach. **2022**, -1,	2
49	Topology-Preserving Shape Reconstruction and Registration via Neural Diffeomorphic Flow. **2022**,	0
48	A generic physics-informed neural network-based framework for reliability assessment of multi-state systems. **2023**, 229, 108835	1
47	Rayleigh-Based Distributed Optical Fiber Sensing. **2022**, 22, 6811	0
46	DrTransformer: Heuristic cotranscriptional RNA folding using the nearest neighbor energy model.	0

45	Pseudo-marginal inference for CTMCs on infinite spaces via monotonic likelihood approximations. 1-36	0
44	An alternative precise time integration method for structural systems involving a nonviscous damping model. **2022**, 117322	0
43	Improved quantum computing with higher-order Trotter decomposition. **2022**, 106,	0
42	An Inline Burnup Algorithm. 1-19	0
41	A uniformisation-driven algorithm for inference-related estimation of a phase-type ageing model.	0
40	Gradient flows and randomised thresholding: sparse inversion and classification.	0
39	Loschmidt-echo approach to error estimation in Krylov-subspace approximation. **2022**, 106,	0
38	Operator splitting based structure-preserving numerical schemes for the mass-conserving convective Allen-Cahn equation. **2023**, 472, 111695	0
37	Modelling health-data breaches with application to cyber insurance. **2023**, 124, 102963	0
36	A hyperbolic generalized Zener model for nonlinear viscoelastic waves. **2023**, 116, 103086	0
35	Numerical study of multiphase hyperbolic models. **2022**, 114925	0
34	Bending Deformable Tension-Shear Model for Nacre-like Composites. **2022**, 105132	1
33	Estimating Multiclass Service Demand Distributions Using Markovian Arrival Processes.	0
32	Disorder-free localization with Stark gauge protection. **2022**, 106,	0
31	A Quasi-Exponential Transform for Unstable Modes Calculation of Large-Scale Power Systems. **2022**, 1-4	0
30	Equitable modelling of brain imaging by counterfactual augmentation with morphologically constrained 3D deep generative models. **2023**, 84, 102723	1
29	Time Approximation. **2022**, 1-24	0
28	Introduction of the Adding and Doubling Method for Solving Bateman Equations for Nuclear Fuel Depletion. 1-31	0

27	Full-Brillouin-zone calculation of high-order harmonic generation from solid-state media. **2022**, 106,	0
26	Thirteen dubious ways to detect conserved structural RNAs.	0
25	Compositional Sequence Generation in the Entorhinal–Hippocampal System. **2022**, 24, 1791	0
24	Age-related model for estimating the symptomatic and asymptomatic transmissibility of COVID-19 patients.	0
23	A stochastic time scale based framework for system reliability under a Markovian dynamic environment.	0
22	Simple examples of continuous-time Markov-chain models for reactions.	0
21	Learning Linearized Assignment Flows for Image Labeling.	1
20	Powers of defective matrices from diagonalizable dilations. **2023**, 661, 202-221	0
19	Temporal Regulation of Organelle Biogenesis.	0
18	Quantum amplitude damping for solving homogeneous linear differential equations: A noninterferometric algorithm. **2023**, 107,	0
17	DrTransformer: heuristic cotranscriptional RNA folding using the nearest neighbor energy model. **2023**, 39,	0
16	LeXInt: Package for exponential integrators employing Leja interpolation. **2023**, 21, 101302	0
15	Euler polynomials for the matrix exponential approximation. **2023**, 425, 115074	1
14	Spinsim: A GPU optimized python package for simulating spin-half and spin-one quantum systems. **2023**, 287, 108701	0
13	Error analysis of the truncated Taylor series expansion method for computing matrix exponential. **2022**, 14, 147-150	0
12	Sorting-free Hill-based stability analysis of periodic solutions through Koopman analysis. **2023**, 111, 8439-8466	0
11	Numerical analysis of the high-order scheme of the damped nonlinear space fraction Schrödinger equation. **2023**, 141, 108621	0
10	Analytical solution for coupled water–gas transport in landfill cover.	0

9	Jordan‐Schur Algorithms for Computing the Matrix Exponential. **2023**, 2023, 1-17	0
8	Numerical Computation of Critical Surfaces for the Breakup of Invariant Tori in Hamiltonian Systems. **2023**, 22, 483-500	0
7	Acoustic black hole for Lamb fundamental flexural mode. **2023**, 138,	0
6	A probabilistic deep learning model of inter-fraction anatomical variations in radiotherapy. **2023**, 68, 085018	0
5	On infinite group velocity of Lamb waves. 1-11	0
4	Time-domain Dynamic-performance-improvement Method for Pulse-width-modulated DC-DC Converters Based on Eigenvalue and Eigenvector Sensitivity. **2023**, 9, 104-119	0
3	Hybrid QAOA and Genetic Algorithm for Solving Max-Cut Problem.	0
2	Lax dynamics for Cartan decomposition with applications to Hamiltonian simulation.	0
1	Calculation of ́the ́Exponential in ́Arbitrary $$ Cl _{p,q}$$ Clifford Algebra. **2023**, 16-27	0