

Je MacÃ- as-DÃ- az

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	High-order finite difference/spectral-Galerkin approximations for the nonlinear time-space fractional Ginzburg-Landau equation. <i>Numerical Methods for Partial Differential Equations</i> , 2023, 39, 4549-4574.	3.6	12
2	Design and analysis of a dissipative scheme to solve a generalized multi-dimensional Higgs boson equation in the de Sitter space-time. <i>Journal of Computational and Applied Mathematics</i> , 2022, 404, 113120.	2.0	3
3	Design and numerical analysis of a logarithmic scheme for nonlinear fractional diffusion-reaction equations. <i>Journal of Computational and Applied Mathematics</i> , 2022, 404, 113118.	2.0	3
4	On the dissipativity of some Caputo time-fractional subdiffusion models in multiple dimensions: Theoretical and numerical investigations. <i>Journal of Computational and Applied Mathematics</i> , 2022, 400, 113748.	2.0	2
5	Theoretical analysis of a conservative finite-difference scheme to solve a Riesz space-fractional Gross-Pitaevskii system. <i>Journal of Computational and Applied Mathematics</i> , 2022, 404, 113413.	2.0	10
6	On the wave transmission in a discrete nonlinear left-handed electrical lattice. <i>Waves in Random and Complex Media</i> , 2022, 32, 2718-2728.	2.7	8
7	On a discrete model that dissipates the free energy of a time-space fractional generalized nonlinear parabolic equation. <i>Applied Numerical Mathematics</i> , 2022, 172, 215-223.	2.1	2
8	Two energy-preserving numerical models for a multi-fractional extension of the Klein-Gordon-Zakharov system. <i>Journal of Computational and Applied Mathematics</i> , 2022, 406, 114023.	2.0	4
9	Hermite-Hadamard inequalities for generalized convex functions in interval-valued calculus. <i>AIMS Mathematics</i> , 2022, 7, 4266-4292.	1.6	25
10	Fractional Calculus Theory and Applications. <i>Axioms</i> , 2022, 11, 43.	1.9	2
11	Some new versions of integral inequalities for log-preinvex fuzzy-interval-valued functions through fuzzy order relation. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 7089-7101.	6.4	9
12	Fractional Calculus for Convex Functions in Interval-Valued Settings and Inequalities. <i>Symmetry</i> , 2022, 14, 341.	2.2	9
13	Some Fuzzy Riemann-Liouville Fractional Integral Inequalities for Preinvex Fuzzy Interval-Valued Functions. <i>Symmetry</i> , 2022, 14, 313.	2.2	8
14	Design, Analysis and Comparison of a Nonstandard Computational Method for the Solution of a General Stochastic Fractional Epidemic Model. <i>Axioms</i> , 2022, 11, 10.	1.9	8
15	Some integral inequalities in interval fractional calculus for left and right coordinated interval-valued functions. <i>AIMS Mathematics</i> , 2022, 7, 10454-10482.	1.6	6
16	On some generalized Raina-type fractional-order integral operators and related Chebyshev inequalities. <i>AIMS Mathematics</i> , 2022, 7, 10256-10275.	1.6	0
17	A dynamically consistent computational method to solve numerically a mathematical model of polio propagation with spatial diffusion. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 218, 106709.	4.7	2
18	Hermite-Hadamard Inequalities in Fractional Calculus for Left and Right Harmonically Convex Functions via Interval-Valued Settings. <i>Fractal and Fractional</i> , 2022, 6, 178.	3.3	23

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19	CMMSE: analysis and comparison of some numerical methods to solve a nonlinear fractional Grossâ€Pitaevskii system. Journal of Mathematical Chemistry, 2022, 60, 1272-1286.	1.5	1
20	A nonlinear discrete model for approximating a conservative multi-fractional Zakharov system: Analysis and computational simulations. Mathematics and Computers in Simulation, 2022, , .	4.4	2
21	An efficient nonstandard computer method to solve a compartmental epidemiological model for COVID-19 with vaccination and population migration. Computer Methods and Programs in Biomedicine, 2022, 221, 106920.	4.7	2
22	Solution Spaces Associated to Continuous or Numerical Models for Which Integrable Functions Are Bounded. Mathematics, 2022, 10, 1936.	2.2	0
23	A numerically efficient variational algorithm to solve a fractional nonlinear elastic string equation. Numerical Algorithms, 2021, 86, 75-102.	1.9	3
24	Design of a nonlinear model for the propagation of COVID-19 and its efficient nonstandard computational implementation. Applied Mathematical Modelling, 2021, 89, 1835-1846.	4.2	43
25	Design and analysis of a discrete method for a timeâ€delayed reactionâ€diffusion epidemic model. Mathematical Methods in the Applied Sciences, 2021, 44, 5110-5122.	2.3	1
26	Nonlinear wave transmission in harmonically driven hamiltonian sine-Gordon regimes with memory effects. Chaos, Solitons and Fractals, 2021, 142, 110362.	5.1	4
27	A positive and bounded convergent scheme for general space-fractional diffusion-reaction systems with inertial times. International Journal of Computer Mathematics, 2021, 98, 1071-1097.	1.8	2
28	A bounded numerical solver for a fractional FitzHughâ€Nagumo equation and its high-performance implementation. Engineering With Computers, 2021, 37, 1593-1609.	6.1	3
29	Exact solutions of non-linear Kleinâ€Gordon equation with non-constant coefficients through the trial equation method. Journal of Mathematical Chemistry, 2021, 59, 827-839.	1.5	1
30	Development of Nano-Antifungal Therapy for Systemic and Endemic Mycoses. Journal of Fungi (Basel,.) Tj ETQq0 0 Q,rgBT /Overlock 10 T	3.5	7
31	A finite-difference discretization preserving the structure of solutions of a diffusive model of type-1 human immunodeficiency virus. Advances in Difference Equations, 2021, 2021, .	3.5	3
32	A dissipation-preserving scheme to approximate radially symmetric solutions of the Higgs boson equation in the de Sitter space-time. Communications in Nonlinear Science and Numerical Simulation, 2021, 96, 105698.	3.3	1
33	Second-Order Semi-Discretized Schemes for Solving Stochastic Quenching Models on Arbitrary Spatial Grids. Discrete Dynamics in Nature and Society, 2021, 2021, 1-19.	0.9	0
34	Analysis and simulation of numerical schemes for nonlinear hyperbolic predatorâ€prey models with spatial diffusion. Journal of Computational and Applied Mathematics, 2021, 404, 113636.	2.0	3
35	A Convergent Three-Step Numerical Method to Solve a Double-Fractional Two-Component Boseâ€Einstein Condensate. Mathematics, 2021, 9, 1412.	2.2	3
36	Analysis of a nonstandard computer method to simulate a nonlinear stochastic epidemiological model of coronavirus-like diseases. Computer Methods and Programs in Biomedicine, 2021, 204, 106054.	4.7	20

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37	Driven damped nth-power anharmonic oscillators with time-dependent coefficients and their integrals of motion. Results in Physics, 2021, 25, 104169.	4.1	2
38	A Mass- and Energy-Conserving Numerical Model for a Fractional Grossâ€Pitaevskii System in Multiple Dimensions. Mathematics, 2021, 9, 1765.	2.2	3
39	On a nonlinear energy-conserving scalar auxiliary variable (SAV) model for Riesz space-fractional hyperbolic equations. Applied Numerical Mathematics, 2021, 165, 339-347.	2.1	1
40	An Economic Model for OECD Economies with Truncated M-Derivatives: Exact Solutions and Simulations. Mathematics, 2021, 9, 1780.	2.2	8
41	An implicit and convergent method for radially symmetric solutions of Higgs' boson equation in the de Sitter spaceâ€time. Applied Numerical Mathematics, 2021, 165, 270-289.	2.1	0
42	An Exterior Neumann Boundary-Value Problem for the Div-Curl System and Applications. Mathematics, 2021, 9, 1609.	2.2	6
43	On the General Solutions of Some Non-Homogeneous Div-Curl Systems with Riemannâ€Liouville and Caputo Fractional Derivatives. Fractal and Fractional, 2021, 5, 117.	3.3	11
44	A SEIR model with memory effects for the propagation of Ebola-like infections and its dynamically consistent approximation. Computer Methods and Programs in Biomedicine, 2021, 209, 106322.	4.7	3
45	On the nonlinear wave transmission in a nonlinear continuous hyperbolic regime with Caputo-type temporal fractional derivative. Results in Physics, 2021, 29, 104808.	4.1	0
46	Derivation of a quasi-linear second-order elliptic-parabolic model for the efficiency of silicon solar cells. Applied Mathematical Modelling, 2021, 99, 730-738.	4.2	0
47	An implicit semi-linear discretization of a bi-fractional Kleinâ€Gordonâ€Zakharov system which conserves the total energy. Applied Numerical Mathematics, 2021, 169, 179-200.	2.1	7
48	Nonlinear Supratransmission in Quartic Hamiltonian Lattices With Globally Interacting Particles and On-Site Potentials. Journal of Computational and Nonlinear Dynamics, 2021, 16, .	1.2	7
49	Computer simulation of the dynamics of a spatial susceptible-infected-recovered epidemic model with time delays in transmission and treatment. Computer Methods and Programs in Biomedicine, 2021, 212, 106469.	4.7	4
50	An Efficient Discrete Model to Approximate the Solutions of a Nonlinear Double-Fractional Two-Component Grossâ€Pitaevskii-Type System. Mathematics, 2021, 9, 2727.	2.2	4
51	Convergence and stability estimates in difference setting for timeâ€fractional parabolic equations with functional delay. Numerical Methods for Partial Differential Equations, 2020, 36, 118-132.	3.6	19
52	A parallelized computational model for multidimensional systems of coupled nonlinear fractional hyperbolic equations. Journal of Computational Physics, 2020, 402, 109043.	3.8	4
53	Simple efficient simulation of the complex dynamics of some nonlinear hyperbolic predatorâ€prey models with spatial diffusion. Applied Mathematical Modelling, 2020, 77, 1373-1390.	4.2	4
54	Corrigendum to â€A numerically efficient and conservative model for a Riesz space-fractional Kleinâ€Gordonâ€Zakharov systemâ€. Communications in Nonlinear Science and Numerical Simulation, 2020, 83, 105109.	3.3	4

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55	Semi-implicit Galerkinâ€Legendre Spectral Schemes for Nonlinear Time-Space Fractional Diffusionâ€Reaction Equations with Smooth and Nonsmooth Solutions. <i>Journal of Scientific Computing</i> , 2020, 82, 1.	2.3	71
56	Existence of solutions of an explicit energy-conserving scheme for a fractional Kleinâ€Gordonâ€Zakharov system. <i>Applied Numerical Mathematics</i> , 2020, 151, 40-43.	2.1	8
57	A mathematical model that combines chemotherapy and oncolytic virotherapy as an alternative treatment against a glioma. <i>Journal of Mathematical Chemistry</i> , 2020, 58, 544-554.	1.5	8
58	A threshold selection criterion based on the number of runs for the detection of bursts in EMG signals. <i>Biomedical Signal Processing and Control</i> , 2020, 57, 101699.	5.7	6
59	A Discrete GrÃnwall Inequality and Energy Estimates in the Analysis of a Discrete Model for a Nonlinear Time-Fractional Heat Equation. <i>Mathematics</i> , 2020, 8, 1539.	2.2	10
60	Energy transmission in nonlinear chains of harmonic oscillators with long-range interactions. <i>Results in Physics</i> , 2020, 18, 103210.	4.1	5
61	Modified Hamiltonian Fermiâ€Pastaâ€Ulamâ€Tsingou arrays which exhibit nonlinear supratransmission. <i>Results in Physics</i> , 2020, 18, 103237.	4.1	2
62	A Numerical Scheme for the Probability Density of the First Hitting Time for Some Random Processes. <i>Symmetry</i> , 2020, 12, 1907.	2.2	1
63	An energy-preserving and efficient scheme for a double-fractional conservative Kleinâ€Gordonâ€Zakharov system. <i>Applied Numerical Mathematics</i> , 2020, 158, 292-313.	2.1	10
64	A fully explicit variational integrator for multidimensional systems of coupled nonlinear fractional hyperbolic equations. <i>Applied Numerical Mathematics</i> , 2020, 154, 149-171.	2.1	0
65	A dissipation-preserving finite-difference scheme for a generalized Higgs boson equation in the de Sitter spaceâ€time. <i>Applied Mathematics Letters</i> , 2020, 107, 106425.	2.7	6
66	Numerical modeling and theoretical analysis of a nonlinear advection-reaction epidemic system. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 193, 105429.	4.7	19
67	On the stability and convergence of an implicit logarithmic scheme for diffusion equations with nonlinear reaction. <i>Journal of Mathematical Chemistry</i> , 2020, 58, 735-749.	1.5	1
68	A dynamically consistent exponential scheme to solve some advectionâ€reaction equations with Riesz anomalous diffusion. <i>Journal of Computational and Applied Mathematics</i> , 2020, 378, 112920.	2.0	0
69	Fractional generalization of the fermiâ€Pastaâ€Ulamâ€Tsingou media and theoretical analysis of an explicit variational scheme. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 88, 105158.	3.3	2
70	On the solution of a generalized Higgs boson equation in the de Sitter space-time through an efficient and Hamiltonian scheme. <i>Journal of Computational Physics</i> , 2020, 417, 109568.	3.8	9
71	On the Lagrangians and potentials of a two coupled damped Duffing oscillators system and their application on three-node motif networks. <i>Revista Mexicana De FÃsica</i> , 2020, 66, 440-445.	0.4	6
72	Energy transmission in the forbidden band-gap of a nonlinear chain with global interactions. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 505701.	2.1	2

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73	An easy-to-implement parallel algorithm to simulate complex instabilities in three-dimensional (fractional) hyperbolic systems. <i>Computer Physics Communications</i> , 2020, 254, 107383.	7.5	1
74	Numerical efficiency of some exponential methods for an advectionâ€“diffusion equation. <i>International Journal of Computer Mathematics</i> , 2019, 96, 1005-1029.	1.8	5
75	On a positivity-preserving numerical model for a linearized hyperbolic Fisherâ€“Kolmogorovâ€“Petrovskiâ€“Piscounov equation. <i>Journal of Computational and Applied Mathematics</i> , 2019, 354, 603-611.	2.0	1
76	Some exact solutions of a hyperbolic model of energy transmission in non-homogeneous media. <i>Journal of Computational and Applied Mathematics</i> , 2019, 354, 597-602.	2.0	1
77	Discrete monotone method for space-fractional nonlinear reactionâ€“diffusion equations. <i>Advances in Difference Equations</i> , 2019, 2019, .	3.5	1
78	An efficient and fully explicit model to simulate delayed activatorâ€“inhibitor systems with anomalous diffusion. <i>Journal of Mathematical Chemistry</i> , 2019, 57, 1902-1923.	1.5	5
79	Theoretical analysis of an explicit energy-conserving scheme for a fractional Kleinâ€“Gordonâ€“Zakharov system. <i>Applied Numerical Mathematics</i> , 2019, 146, 245-259.	2.1	14
80	Numerical simulation of Turing patterns in a fractional hyperbolic reaction-diffusion model with GrÃ¼nwald differences. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	4
81	Entropy-Based Selection of Cluster Representatives for Document Image Compression. <i>SIAM Journal on Imaging Sciences</i> , 2019, 12, 1720-1738.	2.2	0
82	Algorithm for some anomalously diffusive hyperbolic systems in molecular dynamics: Theoretical analysis and pattern formation. <i>Journal of Computational Physics</i> , 2019, 397, 108863.	3.8	1
83	New sinusoidal basis functions and a neural network approach to solve nonlinear Volterraâ€“Fredholm integral equations. <i>Neural Computing and Applications</i> , 2019, 31, 4865-4878.	5.6	13
84	A package for the computational analysis of complex biophysical signals. <i>International Journal of Modern Physics C</i> , 2019, 30, 1950005.	1.7	3
85	A structure-preserving Bhattacharya method for nonlinear parabolic equations with fractional diffusion and advection. <i>Journal of Computational and Applied Mathematics</i> , 2019, 354, 623-640.	2.0	0
86	An integral of motion for the damped cubic-quintic Duffing oscillator with variable coefficients. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 78, 104860.	3.3	6
87	A novel discrete Gronwall inequality in the analysis of difference schemes for time-fractional multi-delayed diffusion equations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 73, 110-119.	3.3	29
88	On the numerical and structural properties of a logarithmic scheme for diffusionâ€“reaction equations. <i>Applied Numerical Mathematics</i> , 2019, 140, 104-114.	2.1	5
89	Numerically Efficient Methods for Variational Fractional Wave Equations: An Explicit Four-Step Scheme. <i>Mathematics</i> , 2019, 7, 1095.	2.2	2
90	Analysis of Structure-Preserving Discrete Models for Predator-Prey Systems with Anomalous Diffusion. <i>Mathematics</i> , 2019, 7, 1172.	2.2	4

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91	Structural and numerical analysis of an implicit logarithmic scheme for diffusion equations with nonlinear reaction. <i>International Journal of Modern Physics C</i> , 2019, 30, 1950065.	1.7	1
92	Analysis and Nonstandard Numerical Design of a Discrete Three-Dimensional Hepatitis B Epidemic Model. <i>Mathematics</i> , 2019, 7, 1157.	2.2	23
93	A numerically efficient and conservative model for a Riesz space-fractional Kleinâ€“Gordonâ€“Zakharov system. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 71, 22-37.	3.3	33
94	Nonlinear supratransmission in fractional wave systems. <i>Journal of Mathematical Chemistry</i> , 2019, 57, 790-811.	1.5	2
95	An optimal Bayesian threshold method for onset detection in electric biosignals. <i>Mathematical Biosciences</i> , 2019, 309, 12-22.	1.9	4
96	Discrete Dynamics of Nonlinear Systems in Nature and Society. <i>Discrete Dynamics in Nature and Society</i> , 2019, 2019, 1-2.	0.9	0
97	The noisy Paisâ€“Uhlenbeck oscillator. <i>Journal of Mathematical Chemistry</i> , 2019, 57, 1314-1329.	1.5	3
98	Complex pattern formation arising from wave instabilities in a three-agent chemical system with superdiffusion. <i>Journal of Mathematical Chemistry</i> , 2019, 57, 638-654.	1.5	4
99	An efficient Hamiltonian numerical model for a fractional Kleinâ€“Gordon equation through weighted-shifted GrÃ¼nwald differences. <i>Journal of Mathematical Chemistry</i> , 2019, 57, 1394-1412.	1.5	6
100	On the solution of hyperbolic two-dimensional fractional systems via discrete variational schemes of high order of accuracy. <i>Journal of Computational and Applied Mathematics</i> , 2019, 354, 612-622.	2.0	13
101	On the solution of a Riesz space-fractional nonlinear wave equation through an efficient and energy-invariant scheme. <i>International Journal of Computer Mathematics</i> , 2019, 96, 337-361.	1.8	24
102	A Conservative Scheme with Optimal Error Estimates for a Multidimensional Spaceâ€“Fractional Grossâ€“Pitaevskii Equation. <i>International Journal of Applied Mathematics and Computer Science</i> , 2019, 29, 713-723.	1.5	5
103	Energy transmission in Hamiltonian systems of globally interacting particles with Klein-Gordon on-site potentials. <i>Mathematics in Engineering</i> , 2019, 1, 343-358.	0.9	4
104	Superenergy flux of Einsteinâ€“Rosen waves. <i>International Journal of Modern Physics D</i> , 2018, 27, 1850072.	2.1	2
105	Supratransmission in $\hat{\nu}^2$ -Fermiâ€“Pastaâ€“Ulam chains with different ranges of interactions. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018, 63, 307-321.	3.3	45
106	A dynamically consistent method to solve nonlinear multidimensional advectionâ€“reaction equations with fractional diffusion. <i>Journal of Computational Physics</i> , 2018, 366, 71-88.	3.8	5
107	Traveling-wave solutions of a generalized damped wave equation with time-dependent coefficients through the trial equation method. <i>Journal of Mathematical Chemistry</i> , 2018, 56, 1976-1984.	1.5	1
108	A compact fourth-order in space energy-preserving method for Riesz space-fractional nonlinear wave equations. <i>Applied Mathematics and Computation</i> , 2018, 325, 1-14.	2.2	36

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109	A bounded and efficient scheme for multidimensional problems with anomalous convection and diffusion. Computers and Mathematics With Applications, 2018, 75, 3995-4011.	2.7	5
110	Diffusive instabilities in a hyperbolic activator-inhibitor system with superdiffusion. Physical Review E, 2018, 97, 032129.	2.1	20
111	A Numerically Efficient Dissipation-Preserving Implicit Method for a Nonlinear Multidimensional Fractional Wave Equation. Journal of Scientific Computing, 2018, 77, 1-26.	2.3	27
112	Numerical simulation of the nonlinear dynamics of harmonically driven Riesz-fractional extensions of the Fermi-Pasta-Ulam chains. Communications in Nonlinear Science and Numerical Simulation, 2018, 55, 248-264.	3.3	39
113	A mathematical model for the pre-diagnostic of glioma growth based on blood glucose levels. Journal of Mathematical Chemistry, 2018, 56, 687-699.	1.5	3
114	A structure-preserving computational method in the simulation of the dynamics of cancer growth with radiotherapy. Journal of Mathematical Chemistry, 2018, 56, 1985-2000.	1.5	3
115	A modified exponential method that preserves structural properties of the solutions of the Burgers-Huxley equation. International Journal of Computer Mathematics, 2018, 95, 3-19.	1.8	16
116	A pseudo energy-invariant method for relativistic wave equations with Riesz space-fractional derivatives. Computer Physics Communications, 2018, 224, 98-107.	7.5	46
117	An explicit dissipation-preserving method for Riesz space-fractional nonlinear wave equations in multiple dimensions. Communications in Nonlinear Science and Numerical Simulation, 2018, 59, 67-87.	3.3	58
118	Nonlinear energy transmission in systems with nonlocal effects and relativistic potentials. International Journal of Modern Physics C, 2018, 29, 1850106.	1.7	0
119	Computational study of the nonlinear bistability in a relativistic wave equation with anomalous diffusion. International Journal of Modern Physics C, 2018, 29, 1850057.	1.7	4
120	Discrete Dynamics of Fractional Systems: Theory and Numerical Techniques. Discrete Dynamics in Nature and Society, 2018, 2018, 1-1.	0.9	0
121	A numerically efficient Hamiltonian method for fractional wave equations. Applied Mathematics and Computation, 2018, 338, 231-248.	2.2	2
122	Novel electromyography signal envelopes based on binary segmentation. Biomedical Signal Processing and Control, 2018, 45, 225-236.	5.7	7
123	A convergent and dynamically consistent finite-difference method to approximate the positive and bounded solutions of the classical Burgers-Fisher equation. Journal of Computational and Applied Mathematics, 2017, 318, 604-615.	2.0	19
124	A bounded linear integrator for some diffusive nonlinear time-dependent partial differential equations. Journal of Computational and Applied Mathematics, 2017, 318, 515-528.	2.0	2
125	On $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si9.gif" display="inline" overflow="scroll" \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle S \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ as an alternative continuous opinion space in a three-party regime. Journal of Computational and Applied Mathematics, 2017, 318, 230-241.	2.0	7
126	Finite-difference modeling à la Mickens of the distribution of the stopping time in a stochastic differential equation. Journal of Difference Equations and Applications, 2017, 23, 799-820.	1.1	2

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127	On the isomorphism of injective objects in Grothendieck categories. <i>Quaestiones Mathematicae</i> , 2017, 40, 617-622.	0.6	1
128	Persistence of nonlinear hysteresis in fractional models of Josephson transmission lines. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017, 53, 31-43.	3.3	33
129	A deterministic model for the distribution of the stopping time in a stochastic equation and its numerical solution. <i>Journal of Computational and Applied Mathematics</i> , 2017, 318, 93-106.	2.0	29
130	Consensus formation simulation in a social network modeling controversial opinion dynamics with pairwise interactions. <i>International Journal of Modern Physics C</i> , 2017, 28, 1750058.	1.7	5
131	A structure-preserving method for a class of nonlinear dissipative wave equations with Riesz space-fractional derivatives. <i>Journal of Computational Physics</i> , 2017, 351, 40-58.	3.8	76
132	A structure-preserving method for the distribution of the first hitting time to a moving boundary for some Gaussian processes. <i>Computers and Mathematics With Applications</i> , 2017, 74, 1799-1812.	2.7	3
133	Numerical study of the process of nonlinear supratransmission in Riesz space-fractional sine-Gordon equations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017, 46, 89-102.	3.3	50
134	A modified Bhattacharya exponential method to approximate positive and bounded solutions of the Burgersâ€Fisher equation. <i>Journal of Computational and Applied Mathematics</i> , 2017, 318, 366-377.	2.0	10
135	A compact exponential method for the efficient numerical simulation of the dewetting process of viscous thin films. <i>Journal of Mathematical Chemistry</i> , 2017, 55, 153-174.	1.5	3
136	Existence and Uniqueness of Positive and Bounded Solutions of a Discrete Population Model with Fractional Dynamics. <i>Discrete Dynamics in Nature and Society</i> , 2017, 2017, 1-7.	0.9	6
137	Note on a Picard-like Method for Caputo Fuzzy Fractional Differential Equations. <i>Applied Mathematics and Information Sciences</i> , 2017, 11, 281-287.	0.5	13
138	A Structure-Preserving Modified Exponential Method for the Fisherâ€Kolmogorov Equation. <i>Applied Mathematics and Information Sciences</i> , 2017, 11, 69-77.	0.5	0
139	Conciliating efficiency and dynamical consistency in the simulation of the effects of proliferation and motility of transforming growth factor \hat{I}^2 on cancer cells. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016, 40, 173-188.	3.3	5
140	An equivalence criterion for the generalized injectivity of modules with respect to algebraic classes of homomorphisms. <i>Journal of Algebra and Its Applications</i> , 2016, 15, 1650166.	0.4	1
141	A differential quadrature-based approach Ã la Picard for systems of partial differential equations associated with fuzzy differential equations. <i>Journal of Computational and Applied Mathematics</i> , 2016, 299, 15-23.	2.0	21
142	On an efficient implementation and mass boundedness conditions for a discrete Dirichlet problem associated with a nonlinear system of singular partial differential equations. <i>Journal of Difference Equations and Applications</i> , 2015, 21, 1021-1043.	1.1	5
143	Some remarks on an exact and dynamically consistent scheme for the Burgers-Huxley equation in higher dimensions. <i>Advances in Difference Equations</i> , 2015, 2015, .	3.5	1
144	A Mickensâ€type discretization of a diffusive model with nonpolynomial advection/convection and reaction terms. <i>Numerical Methods for Partial Differential Equations</i> , 2015, 31, 652-669.	3.6	1

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145	On Modules Which are Isomorphic to Relatively Divisible or Pure Submodules of Each Other. <i>Quaestiones Mathematicae</i> , 2015, 38, 789-792.	0.6	1
146	Positive computational modelling of the dynamics of active and inert biomass with extracellular polymeric substances. <i>Journal of Difference Equations and Applications</i> , 2015, 21, 319-335.	1.1	5
147	On the convergence of a nonlinear finite-difference discretization of the generalized Burgersâ€Fisher equation. <i>Journal of Difference Equations and Applications</i> , 2015, 21, 374-382.	1.1	5
148	An integro-differential generalization and dynamically consistent discretizations of some hyperbolic models with nonlinear damping. <i>International Journal of Computer Mathematics</i> , 2015, 92, 2109-2120.	1.8	1
149	A positive and bounded finite element approximation of the generalized Burgersâ€Huxley equation. <i>Journal of Mathematical Analysis and Applications</i> , 2015, 424, 1143-1160.	1.0	45
150	A fast and unconditionally positive finite-difference discretization of a multidimensional equation in nonlinear population dynamics. <i>Journal of Difference Equations and Applications</i> , 2014, 20, 1652-1666.	1.1	0
151	Existence and uniqueness of monotone and bounded solutions for a finite-difference discretization Ã la Mickens of the generalized Burgersâ€Huxley equation. <i>Journal of Difference Equations and Applications</i> , 2014, 20, 989-1004.	1.1	30
152	A computational method for the detection of activation/deactivation patterns in biological signals with three levels of electric intensity. <i>Mathematical Biosciences</i> , 2014, 248, 117-127.	1.9	6
153	On an exact numerical simulation of solitary-wave solutions of the Burgersâ€Huxley equation through Cardanoâ€™s method. <i>BIT Numerical Mathematics</i> , 2014, 54, 763-776.	2.0	9
154	A positive finite-difference model in the computational simulation of complex biological film models. <i>Journal of Difference Equations and Applications</i> , 2014, 20, 548-569.	1.1	9
155	A finite-difference scheme in the computational modelling of a coupled substrate-biomass system. <i>International Journal of Computer Mathematics</i> , 2014, 91, 2199-2214.	1.8	11
156	On the convergence of a finite-difference discretization Ã la Mickens of the generalized Burgersâ€Huxley equation. <i>Journal of Difference Equations and Applications</i> , 2014, 20, 1444-1451.	1.1	15
157	On a conditionally stable nonlinear method to approximate some monotone and bounded solutions of a generalized population model. <i>Applied Mathematics and Computation</i> , 2014, 229, 273-282.	2.2	5
158	On the Union of Increasing Chains of Torsion-Free Modules Over Integral Domains. <i>Results in Mathematics</i> , 2013, 63, 221-228.	0.8	0
159	An efficient nonlinear finite-difference approach in the computational modeling of the dynamics of a nonlinear diffusion-reaction equation in microbial ecology. <i>Computational Biology and Chemistry</i> , 2013, 47, 24-30.	2.3	9
160	Computational approximation of the likelihood ratio for testing the existence of change-points in a heteroscedastic series. <i>Journal of Statistical Computation and Simulation</i> , 2013, 83, 1491-1506.	1.2	2
161	A skew symmetry-preserving computational technique for obtaining the positive and the bounded solutions of a time-delayed advectionâ€diffusionâ€reaction equation. <i>Journal of Computational and Applied Mathematics</i> , 2013, 250, 256-269.	2.0	5
162	Simple numerical method to study travelingâ€wave solutions of a diffusive problem with nonlinear advection and reaction. <i>Numerical Methods for Partial Differential Equations</i> , 2013, 29, 1694-1708.	3.6	6

#	ARTICLE	IF	CITATIONS
163	A Mickens-type monotone discretization for bounded travelling-wave solutions of a Burgersâ€Fisher partial differential equation. Journal of Difference Equations and Applications, 2013, 19, 1907-1920.	1.1	12
164	On a linear finite-difference model of a mixed-culture biological system arising in food safety studies. Advances in Difference Equations, 2013, 2013, .	3.5	0
165	On a fully discrete finite-difference approximation of a nonlinear diffusionâ€reaction model in microbial ecology. International Journal of Computer Mathematics, 2013, 90, 1915-1937.	1.8	7
166	AN EFFICIENT RECURSIVE ALGORITHM IN THE COMPUTATIONAL SIMULATION OF THE BOUNDED GROWTH OF BIOLOGICAL FILMS. International Journal of Computational Methods, 2012, 09, 1250050.	1.3	26
167	On a boundedness-preserving semi-linear discretization of a two-dimensional nonlinear diffusionâ€reaction model. International Journal of Computer Mathematics, 2012, 89, 1678-1688.	1.8	12
168	An explicit positivity-preserving finite-difference scheme for the classical Fisherâ€Kolmogorovâ€Petrovskyâ€Piscounov equation. Applied Mathematics and Computation, 2012, 218, 5829-5837.	2.2	37
169	A bounded numerical method for approximating a hyperbolic and convective generalization of Fisherâ€™s model with nonlinear damping. Applied Mathematics Letters, 2012, 25, 946-951.	2.7	4
170	Sufficient conditions for the preservation of the boundedness in a numerical method for a physical model with transport memory and nonlinear damping. Computer Physics Communications, 2011, 182, 2471-2478.	7.5	29
171	The numerical solution of a generalized Burgersâ€Huxley equation through a conditionally bounded and symmetry-preserving method. Computers and Mathematics With Applications, 2011, 61, 3330-3342.	2.7	36
172	A non-standard symmetry-preserving method to compute bounded solutions of a generalized Newellâ€Whiteheadâ€Segel equation. Applied Numerical Mathematics, 2011, 61, 630-640.	2.1	36
173	On the controlled propagation of wave signals in a sinusoidally forced two-dimensional continuous Frenkelâ€Kontorova model. Wave Motion, 2011, 48, 13-23.	2.0	8
174	A finite-difference scheme to approximate non-negative and bounded solutions of a FitzHughâ€Nagumo equation. International Journal of Computer Mathematics, 2011, 88, 3186-3201.	1.8	32
175	A BOUNDED FINITE-DIFFERENCE DISCRETIZATION OF A TWO-DIMENSIONAL DIFFUSION EQUATION WITH LOGISTIC NONLINEAR REACTION. International Journal of Modern Physics C, 2011, 22, 953-966.	1.7	11
176	On some explicit non-standard methods to approximate nonnegative solutions of a weakly hyperbolic equation with logistic nonlinearity. International Journal of Computer Mathematics, 2011, 88, 3308-3323.	1.8	10
177	On the Unions of Ascending Chains of Direct Sums of Ideals of h-Local Prüfer Domains. Algebra Colloquium, 2011, 18, 749-757.	0.2	1
178	An explicit finite-difference method for the approximate solutions of a generic class of anharmonic dissipative nonlinear media. Numerical Methods for Partial Differential Equations, 2010, 26, 1351-1376.	3.6	2
179	A boundedness-preserving finite-difference scheme for a damped nonlinear wave equation. Applied Numerical Mathematics, 2010, 60, 934-948.	2.1	28
180	Two finite-difference schemes that preserve the dissipation of energy in a system of modified wave equations. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 552-563.	3.3	5

#	ARTICLE	IF	CITATIONS
181	A computational technique with multiple properties of consistency in the study of modified-Fermiâ€Pastaâ€Ulam chains. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 1740-1753.	3.3	10
182	On the simulation of the energy transmission in the forbidden band-gap of a spatially discrete double sine-Gordon system. Computer Physics Communications, 2010, 181, 1842-1849.	7.5	8
183	Positivity-preserving methods for a linearised Fisherâ€KPP equation with consistency properties in the energy domain. Journal of Difference Equations and Applications, 2010, 16, 389-405.	1.1	4
184	On completely decomposable and separable modules over Pr ^{1/4} fer domains. Journal of Commutative Algebra, 2010, 2, .	0.3	2
185	On the Propagation of Binary Signals in a Two-Dimensional Nonlinear Lattice with Nearest-Neighbor Interactions. Journal of Nonlinear Mathematical Physics, 2010, 17, 127.	1.3	3
186	Activity pattern detection in electroencephalographic and electromyogram signals through a heteroscedastic change-point method. Mathematical Biosciences, 2010, 224, 109-117.	1.9	8
187	A generalization of the Pontryaginâ€Hill theorems to projective modules over Pr ^{1/4} fer domains. Pacific Journal of Mathematics, 2010, 246, 391-405.	0.5	2
188	COMPUTATIONAL STUDY OF THE TRANSMISSION OF ENERGY IN A TWO-DIMENSIONAL LATTICE WITH NEAREST-NEIGHBOR INTERACTIONS. International Journal of Modern Physics C, 2009, 20, 1933-1943.	1.7	6
189	NONLINEAR SUPRATRANSMISSION AND NONLINEAR BISTABILITY IN A FORCED LINEAR ARRAY OF ANHARMONIC OSCILLATORS: A COMPUTATIONAL STUDY. International Journal of Modern Physics C, 2009, 20, 1911-1923.	1.7	7
190	ON THE GENERATION OF LOCALIZED NONLINEAR MODES IN A LINEAR ARRAY OF ANHARMONIC OSCILLATORS. International Journal of Modern Physics C, 2009, 20, 1187-1198.	1.7	2
191	Bit propagation in (2+1)-dimensional systems of coupled sine-Gordon equations. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 1025-1031.	3.3	9
192	An implicit four-step computational method in the study on the effects of damping in a modified $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si45.gif" overflow="scroll" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{\pm} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -Fermiâ€Pastaâ€Ulam medium. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 3200-3212.	3.3	32
193	Numerical treatment of the spherically symmetric solutions of a generalized Fisherâ€Kolmogorovâ€Petrovskyâ€Piscounov equation. Journal of Computational and Applied Mathematics, 2009, 231, 851-868.	2.0	28
194	A numerical method with properties of consistency in the energy domain for a class of dissipative nonlinear wave equations with applications to a Dirichlet boundaryâ€value problem. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2008, 88, 828-846.	1.6	16
195	On the transmission of binary bits in discrete Josephson-junction arrays. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 5004-5010.	2.1	35
196	On the bifurcation of energy in media governed by (2+1)-dimensional modified Kleinâ€Gordon equations. Applied Mathematics and Computation, 2008, 206, 221-235.	2.2	1
197	An energy-based computational method in the analysis of the transmission of energy in a chain of coupled oscillators. Journal of Computational and Applied Mathematics, 2008, 214, 393-405.	2.0	26
198	Numerical study of the transmission of energy in discrete arrays of sine-Gordon equations in two space dimensions. Physical Review E, 2008, 77, 016602.	2.1	37

#	ARTICLE	IF	CITATIONS
199	Bistability of a two-dimensional Klein-Gordon system as a reliable means to transmit monochromatic waves: A numerical approach. <i>Physical Review E</i> , 2008, 78, 056603.	2.1	12
200	On the propagation of binary signals in damped mechanical systems of oscillators. <i>Physica D: Nonlinear Phenomena</i> , 2007, 228, 112-121.	2.8	41
201	An application of nonlinear supratransmission to the propagation of binary signals in weakly damped, mechanical systems of coupled oscillators. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 366, 447-450.	2.1	37
202	A numerical method for computing radially symmetric solutions of a dissipative nonlinear modified Klein-Gordon equation. <i>Numerical Methods for Partial Differential Equations</i> , 2005, 21, 998-1015.	3.6	27
203	On the isomorphism of coneat-injective modules over commutative rings. <i>Quaestiones Mathematicae</i> , 0, , 1-6.	0.6	0
204	Computational solution of an acid-mediated tumor-growth radial model under logistic growth regimes for normal and cancer cells. <i>International Journal of Biomathematics</i> , 0, , .	2.9	1