

Juan Ramos

List of Publications by Year in descending order

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222
papers

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331670

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223
docs citations

223
times ranked

998
citing authors

#	ARTICLE	IF	CITATIONS
1	Series approach to the Lane-Emden equation and comparison with the homotopy perturbation method. <i>Chaos, Solitons and Fractals</i> , 2008, 38, 400-408.	5.1	113
2	On the variational iteration method and other iterative techniques for nonlinear differential equations. <i>Applied Mathematics and Computation</i> , 2008, 199, 39-69.	2.2	92
3	Linearization methods in classical and quantum mechanics. <i>Computer Physics Communications</i> , 2003, 153, 199-208.	7.5	72
4	Linearization techniques for singular initial-value problems of ordinary differential equations. <i>Applied Mathematics and Computation</i> , 2005, 161, 525-542.	2.2	63
5	Liquid curtains. I. Fluid mechanics. <i>Chemical Engineering Science</i> , 1988, 43, 3171-3184.	3.8	43
6	Swirling flow in a research combustor. <i>AIAA Journal</i> , 1985, 23, 241-248.	2.6	42
7	On Linstedt-Poincaré techniques for the quintic Duffing equation. <i>Applied Mathematics and Computation</i> , 2007, 193, 303-310.	2.2	39
8	Annular Liquid Jets: Formulation and Steady State Analysis. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 1992, 72, 565-589.	1.6	37
9	Finite difference and finite element methods for mhd channel flows. <i>International Journal for Numerical Methods in Fluids</i> , 1990, 11, 907-934.	1.6	35
10	Linearization methods for reaction-diffusion equations: Multidimensional problems. <i>Applied Mathematics and Computation</i> , 1997, 88, 225-254.	2.2	35
11	Solitary wave interactions of the GRLW equation. <i>Chaos, Solitons and Fractals</i> , 2007, 33, 479-491.	5.1	31
12	Explicit finite difference methods for the EW and RLW equations. <i>Applied Mathematics and Computation</i> , 2006, 179, 622-638.	2.2	30
13	Piecewise quasilinearization techniques for singular boundary-value problems. <i>Computer Physics Communications</i> , 2004, 158, 12-25.	7.5	29
14	Piecewise-linearized methods for initial-value problems. <i>Applied Mathematics and Computation</i> , 1997, 82, 273-302.	2.2	26
15	On the method of modified equations. I: Asymptotic analysis of the Euler forward difference method. <i>Applied Mathematics and Computation</i> , 1999, 103, 111-139.	2.2	26
16	Lumped models of gas bubbles in thermal gradients. <i>Applied Mathematical Modelling</i> , 1997, 21, 371-386.	4.2	25
17	Piecewise-adaptive decomposition methods. <i>Chaos, Solitons and Fractals</i> , 2009, 40, 1623-1636.	5.1	25
18	One-dimensional, time-dependent, homogeneous, two-phase flow in volcanic conduits. <i>International Journal for Numerical Methods in Fluids</i> , 1995, 21, 253-278.	1.6	24

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19	Piecewise-linearized methods for oscillators with fractional-power nonlinearities. <i>Journal of Sound and Vibration</i> , 2007, 300, 502-521.	3.9	24
20	Probability Density Function Calculations in Turbulent Chemically Reacting Round Jets, Mixing Layers and One-Dimensional Reactors. <i>Journal of Non-Equilibrium Thermodynamics</i> , 1985, 10, .	4.2	23
21	On diffusive methods and exponentially fitted techniques. <i>Applied Mathematics and Computation</i> , 1999, 103, 69-96.	2.2	23
22	An artificial parameter-decomposition method for nonlinear oscillators: Applications to oscillators with odd nonlinearities. <i>Journal of Sound and Vibration</i> , 2007, 307, 312-329.	3.9	23
23	Turbulent nonreacting swirling flows. <i>AIAA Journal</i> , 1984, 22, 846-848.	2.6	21
24	Behavior of Multicomponent Gas Bubbles in Glass Melts. <i>Journal of the American Ceramic Society</i> , 1986, 69, 149-154.	3.8	21
25	Implicit, compact, linearized \hat{I}_t -methods with factorization for multidimensional reaction-diffusion equations. <i>Applied Mathematics and Computation</i> , 1998, 94, 17-43.	2.2	21
26	Linearized methods for ordinary differential equations. <i>Applied Mathematics and Computation</i> , 1999, 104, 109-129.	2.2	20
27	Exponential methods for singularly perturbed ordinary differentialâ€“difference equations. <i>Applied Mathematics and Computation</i> , 2006, 182, 1528-1541.	2.2	20
28	Piecewise homotopy methods for nonlinear ordinary differential equations. <i>Applied Mathematics and Computation</i> , 2008, 198, 92-116.	2.2	20
29	Analytical and approximate solutions to autonomous, nonlinear, third-order ordinary differential equations. <i>Nonlinear Analysis: Real World Applications</i> , 2010, 11, 1613-1626.	1.7	20
30	Approximate methods based on order reduction for the periodic solutions of nonlinear third-order ordinary differential equations. <i>Applied Mathematics and Computation</i> , 2010, 215, 4304-4319.	2.2	20
31	Domain-adaptive finite difference methods for collapsing annular liquid jets. <i>Computational Mechanics</i> , 1993, 11, 28-64.	4.0	19
32	The sine-Gordon equation in the finite line. <i>Applied Mathematics and Computation</i> , 2001, 124, 45-93.	2.2	19
33	Numerical Prediction of Axisymmetric Laminar and Turbulent Flows in Motored, Reciprocating Internal Combustion Engines. , 1979, , .		18
34	Liquid curtainsâ€“II. Gas absorption. <i>Chemical Engineering Science</i> , 1990, 45, 1595-1604.	3.8	18
35	Solitary waves of the EW and RLW equations. <i>Chaos, Solitons and Fractals</i> , 2007, 34, 1498-1518.	5.1	18
36	Picardâ€™s iterative method for nonlinear advectionâ€“reactionâ€“diffusion equations. <i>Applied Mathematics and Computation</i> , 2009, 215, 1526-1536.	2.2	18

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37	Axisymmetric Flow Model in a Piston-Cylinder Arrangement with Detailed Analysis of the Valve Region. , 1980, , .		17
38	Linearization methods for reaction-diffusion equations: 1-D problems. Applied Mathematics and Computation, 1997, 88, 199-224.	2.2	17
39	Piecewise-linearized methods for oscillators with limit cycles. Chaos, Solitons and Fractals, 2006, 27, 1229-1238.	5.1	17
40	An artificial parameterâ€“Linstedtâ€“PoincarÃ© method for oscillators with smooth odd nonlinearities. Chaos, Solitons and Fractals, 2009, 41, 380-393.	5.1	17
41	Asymptotic analysis of compound liquid jets at low Reynolds numbers. Applied Mathematics and Computation, 1999, 100, 223-240.	2.2	16
42	Linearly implicit methods for the nonlinear SchrÃ¶dinger equation in nonhomogeneous media. Applied Mathematics and Computation, 2002, 133, 1-28.	2.2	16
43	An exponentially-fitted method for singularly perturbed, one-dimensional, parabolic problems. Applied Mathematics and Computation, 2005, 161, 513-523.	2.2	16
44	Analytical, asymptotic and numerical studies of liquid curtains and comparisons with experimental data. Applied Mathematical Modelling, 1990, 14, 170-183.	4.2	15
45	Convection-induced anisotropy in excitable media subject to solenoidal advective flow fields. Chaos, Solitons and Fractals, 2001, 12, 1897-1908.	5.1	15
46	Dynamics of spiral waves in excitable media with local time-periodic modulation. Chaos, Solitons and Fractals, 2002, 13, 1383-1392.	5.1	15
47	Parallel scheduling of the PCG method for banded matrices arising from FDM/FEM. Journal of Parallel and Distributed Computing, 2003, 63, 1243-1256.	4.1	15
48	A piecewise-analytical method for singularly perturbed parabolic problems. Applied Mathematics and Computation, 2005, 161, 501-512.	2.2	15
49	A finite volume method for one-dimensional reactionâ€“diffusion problems. Applied Mathematics and Computation, 2007, 188, 739-748.	2.2	15
50	Numerical solution of the generalized, dissipative KdVâ€“RLWâ€“Rosenau equation with a compact method. Communications in Nonlinear Science and Numerical Simulation, 2018, 60, 165-183.	3.3	15
51	Linearized factorization techniques for multidimensional reactionâ€“diffusion equations. Applied Mathematics and Computation, 1999, 100, 201-222.	2.2	14
52	Exponential methods for one-dimensional reactionâ€“diffusion equations. Applied Mathematics and Computation, 2005, 170, 380-398.	2.2	14
53	On the Picardâ€“Lindelof method for nonlinear second-order differential equations. Applied Mathematics and Computation, 2008, 203, 238-242.	2.2	14
54	Melt spinning of semi-crystalline compound fibers. Polymer, 2011, 52, 5573-5586.	3.8	14

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55	Effects of convection on a modified GRLW equation. Applied Mathematics and Computation, 2012, 219, 4118-4132.	2.2	14
56	On some accurate finite-difference methods for laminar flame calculations. International Journal for Numerical Methods in Fluids, 1984, 4, 915-930.	1.6	13
57	Numerical solution of reactive-diffusive systems. International Journal of Computer Mathematics, 1986, 18, 289-309.	1.8	13
58	Linearized $\hat{\Gamma}$ -methods I. Ordinary differential equations. Computer Methods in Applied Mechanics and Engineering, 1996, 129, 255-269.	6.6	13
59	Nonstandard finite difference equations for ODEs and 1-D PDEs based on piecewise linearization. Applied Mathematics and Computation, 1997, 86, 11-36.	2.2	13
60	On the calculation of heat and momentum transport in a round jet. International Communications in Heat and Mass Transfer, 1984, 11, 173-182.	5.6	12
61	Numerical solution of reactive-diffusive systems. International Journal of Computer Mathematics, 1985, 18, 43-65.	1.8	12
62	Fuel-Air Mixing and Combustion in a Two-Dimensional Wankel Engine. , 1987, , .		12
63	Hermitian operator methods for reaction-diffusion equations. Numerical Methods for Partial Differential Equations, 1987, 3, 241-287.	3.6	12
64	Linearized $\hat{\Gamma}$ -methods part II: Reaction-diffusion equations. Computer Methods in Applied Mechanics and Engineering, 1996, 137, 357-378.	6.6	12
65	Tile patterns in excitable media subject to non-solenoidal flow fields. Chaos, Solitons and Fractals, 2001, 12, 2267-2281.	5.1	12
66	Oscillatory dynamics of inviscid planar liquid sheets. Applied Mathematics and Computation, 2003, 143, 109-144.	2.2	12
67	Axisymmetric Flow Model with and without Swirl in a Piston-Cylinder Arrangement with Idealized Valve Operation. , 1980, , .		11
68	Study of turbulence in a motored four-stroke internal combustion engine. AIAA Journal, 1981, 19, 595-600.	2.6	11
69	A Numerical Study of a Swirl Stabilized Combustor. Journal of Non-Equilibrium Thermodynamics, 1985, 10, .	4.2	11
70	An analysis of laminar boundary layers on liquid curtains. Zeitschrift Fur Angewandte Mathematik Und Physik, 1989, 40, 721-739.	1.4	11
71	Two-dimensional simulations of magma ascent in volcanic conduits. International Journal for Numerical Methods in Fluids, 1999, 29, 765-789.	1.6	11
72	Propagation of spiral waves in anisotropic media: from waves to stripes. Chaos, Solitons and Fractals, 2001, 12, 1057-1064.	5.1	11

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73	A smooth locally-analytical technique for singularly perturbed two-point boundary-value problems. Applied Mathematics and Computation, 2005, 163, 1123-1142.	2.2	11
74	Linearized Galerkin and artificial parameter techniques for the determination of periodic solutions of nonlinear oscillators. Applied Mathematics and Computation, 2008, 196, 483-493.	2.2	11
75	Turbulent flow field in homogeneous-charge, spark-ignition engines. Proceedings of the Combustion Institute, 1981, 18, 1825-1835.	0.3	10
76	A review of some numerical methods for reaction-diffusion equations. Mathematics and Computers in Simulation, 1983, 25, 538-548.	4.4	10
77	Numerical studies of laminar flame propagation in spherical bombs. AIAA Journal, 1983, 21, 415-422.	2.6	10
78	Development and application of an adaptive finite element method to reaction-diffusion equations. International Journal for Numerical Methods in Fluids, 1985, 5, 13-23.	1.6	10
79	Adaptive methods of lines for one-dimensional reaction-diffusion equations. International Journal for Numerical Methods in Fluids, 1993, 16, 697-723.	1.6	10
80	The nonlinear Schrödinger equation in the finite line. Mathematical and Computer Modelling, 1994, 20, 31-59.	2.0	10
81	A piecewise time-linearized method for the logistic differential equation. Applied Mathematics and Computation, 1998, 93, 139-148.	2.2	10
82	Domain decomposition techniques for reaction-diffusion equations in two-dimensional regions with re-entrant corners. Applied Mathematics and Computation, 2001, 118, 189-221.	2.2	10
83	Linearly-implicit, approximate factorization, exponential methods for multi-dimensional reaction-diffusion equations. Applied Mathematics and Computation, 2006, 174, 1609-1633.	2.2	10
84	Iterative and non-iterative methods for non-linear Volterra integro-differential equations. Applied Mathematics and Computation, 2009, 214, 287-296.	2.2	10
85	Application of the finite-element method to one-dimensional flame propagation problems. AIAA Journal, 1983, 21, 262-269.	2.6	9
86	Drawing of annular liquid jets at low Reynolds numbers. Computational and Theoretical Polymer Science, 2001, 11, 429-443.	1.1	9
87	An exponentially-fitted method for singularly-perturbed ordinary differential equations with turning points and parabolic problems. Applied Mathematics and Computation, 2005, 165, 549-564.	2.2	9
88	Linearization techniques for singularly-perturbed initial-value problems of ordinary differential equations. Applied Mathematics and Computation, 2005, 163, 1143-1163.	2.2	9
89	An artificial parameter Linstedt-Poincaré method for the periodic solutions of nonlinear oscillators in which the restoring force is inversely proportional to the dependent variable. Journal of Sound and Vibration, 2008, 318, 1281-1290.	3.9	9
90	Numerical solution of non-premixed reactive flows in a swirl combustor model. Engineering Computations, 1984, 1, 173-182.	1.4	8

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91	Numerical solution of reactive-diffusive systems. International Journal of Computer Mathematics, 1985, 18, 141-161.	1.8	8
92	GROWTH OF MULTICOMPONENT GAS BUBBLES. Chemical Engineering Communications, 1986, 40, 321-334.	2.6	8
93	One-dimensional models of steady, inviscid, annular liquid jets. Applied Mathematical Modelling, 1996, 20, 593-607.	4.2	8
94	Analysis of Annular Liquid Membranes and Their Singularities. Meccanica, 1997, 32, 279-293.	2.0	8
95	Compound liquid jets at low Reynolds numbers. Polymer, 2002, 43, 2889-2896.	3.8	8
96	On the numerical treatment of an ordinary differential equation arising in one-dimensional non-Fickian diffusion problems. Computer Physics Communications, 2005, 170, 231-238.	7.5	8
97	Determination of periodic orbits of nonlinear oscillators by means of piecewise-linearization methods. Chaos, Solitons and Fractals, 2006, 28, 1306-1313.	5.1	8
98	Piecewise-quasilinearization techniques for singularly perturbed Volterra integro-differential equations. Applied Mathematics and Computation, 2007, 188, 1221-1233.	2.2	8
99	Solitary waves generated by bell-shaped initial conditions in the inviscid and viscous GRLW equations. Applied Mathematical Modelling, 2015, 39, 6645-6668.	4.2	8
100	Comparisons between thermodynamic and one-dimensional combustion models of spark-ignition engines. Applied Mathematical Modelling, 1986, 10, 409-422.	4.2	7
101	On the accuracy of block implicit and operator-splitting algorithms in confined flame propagation problems. International Journal of Computer Mathematics, 1986, 20, 299-324.	1.8	7
102	Modified equation techniques for reaction-diffusive systems. part 2: time-linearization and operator-splitting methods. Computer Methods in Applied Mechanics and Engineering, 1987, 64, 221-236.	6.6	7
103	Dynamic response of liquid curtains to time-dependent pressure fluctuations. Applied Mathematical Modelling, 1991, 15, 126-135.	4.2	7
104	Inviscid, slender, annular liquid jets. Chemical Engineering Science, 1996, 51, 981-994.	3.8	7
105	On the method of modified equations. II: Numerical techniques based on the equivalent equation for the Euler forward difference method. Applied Mathematics and Computation, 1999, 103, 141-177.	2.2	7
106	Asymptotic Analysis and Stability of Inviscid Liquid Sheets. Journal of Mathematical Analysis and Applications, 2000, 250, 512-532.	1.0	7
107	Spatio-temporal patterns in excitable media with non-solenoidal flow straining. Mathematics and Computers in Simulation, 2001, 55, 607-619.	4.4	7
108	Pattern formation in two-dimensional reactive-diffusive media with straining. Chemical Physics Letters, 2002, 365, 260-266.	2.6	7

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109	Modelling of liquid crystalline compound fibres. <i>Polymer</i> , 2005, 46, 12612-12625.	3.8	7
110	Piecewise-linearized methods for initial-value problems with oscillating solutions. <i>Applied Mathematics and Computation</i> , 2006, 181, 123-146.	2.2	7
111	Numerical methods for nonlinear second-order hyperbolic partial differential equations. I. Time-linearized finite difference methods for 1-D problems. <i>Applied Mathematics and Computation</i> , 2007, 190, 722-756.	2.2	7
112	Generalized decomposition methods for singular oscillators. <i>Chaos, Solitons and Fractals</i> , 2009, 42, 1149-1155.	5.1	7
113	A Volterra integral formulation for determining the periodic solutions of some autonomous, nonlinear, third-order ordinary differential equations. <i>Applied Mathematics and Computation</i> , 2010, 216, 2635-2644.	2.2	7
114	Mathematical modelling of spark-ignition engines. <i>Applied Mathematical Modelling</i> , 1985, 9, 40-52.	4.2	6
115	Numerical solution of reaction-diffusion equations by compact operators and modified equation methods. <i>International Journal for Numerical Methods in Fluids</i> , 1987, 7, 337-351.	1.6	6
116	Annular liquid jets in zero gravity. <i>Applied Mathematical Modelling</i> , 1990, 14, 630-640.	4.2	6
117	MASS ABSORPTION BY ANNULAR LIQUID JETS: III. NUMERICAL STUDIES OF JET COLLAPSE. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 1992, 2, 21-36.	2.8	6
118	The effects of fluctuating body forces on annular liquid jets. <i>Archive of Applied Mechanics</i> , 1995, 65, 548-563.	2.2	6
119	Annular liquid jets and other axisymmetric free-surface flows at high Reynolds numbers. <i>Applied Mathematical Modelling</i> , 1998, 22, 423-452.	4.2	6
120	On the method of modified equations. III. Numerical techniques based on the second equivalent equation for the Euler forward difference method. <i>Applied Mathematics and Computation</i> , 1999, 103, 179-212.	2.2	6
121	Exponentially-fitted methods on layer-adapted meshes. <i>Applied Mathematics and Computation</i> , 2005, 167, 1311-1330.	2.2	6
122	Exponential numerical methods for one-dimensional one-phase Stefan problems. <i>Archive of Applied Mechanics</i> , 2005, 74, 664-678.	2.2	6
123	Asymptotic analysis of channel flows with slip lengths that depend on the pressure. <i>Applied Mathematics and Computation</i> , 2007, 188, 1310-1318.	2.2	6
124	Time-linearized, compact methods for the inviscid GRLW equation subject to initial Gaussian conditions. <i>Applied Mathematical Modelling</i> , 2017, 48, 353-383.	4.2	6
125	Modified equation techniques for reactive-diffusive systems. Part 1: explicit, implicit and quasilinear methods. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1987, 64, 195-219.	6.6	5
126	Application of the two-dimensional Fourier transform to nonlinear wave propagation phenomena. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1994, 42, 1079-1085.	4.6	5

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127	On the growth of underpressurized annular liquid jets. Applied Mathematical Modelling, 1995, 19, 13-25.	4.2	5
128	THE EFFECTS OF THE SOLUBILITY LAW ON MASS TRANSFER IN ANNULAR LIQUID JETS. Chemical Engineering Communications, 1995, 139, 137-157.	2.6	5
129	Upward and downward annular liquid jets: Conservation properties, singularities, and numerical errors. Applied Mathematical Modelling, 1996, 20, 440-458.	4.2	5
130	Maps of implicit, linearized \hat{I}_1 -methods for the logistic differential equation. Applied Mathematics and Computation, 1998, 94, 1-15.	2.2	5
131	Wave propagation and suppression in excitable media with holes and external forcing. Chaos, Solitons and Fractals, 2002, 13, 1243-1251.	5.1	5
132	Spiral waves in three-dimensional excitable media with light-sensitive reaction. Chaos, Solitons and Fractals, 2003, 18, 365-373.	5.1	5
133	Spiral wave break-up and planar front formation in two-dimensional reactiveâ€“diffusive media with straining. Applied Mathematics and Computation, 2004, 154, 697-711.	2.2	5
134	Non-standard, explicit integration algorithms based on linearization for nonlinear dynamic response analysis. Applied Mathematics and Computation, 2004, 159, 695-715.	2.2	5
135	Iterative and non-iterative, full and approximate factorization methods for multidimensional reactionâ€“diffusion equations. Applied Mathematics and Computation, 2006, 174, 1586-1608.	2.2	5
136	Propagation and interaction of moving fronts in polymer crystallization. Applied Mathematics and Computation, 2007, 189, 780-795.	2.2	5
137	Numerical methods for nonlinear second-order hyperbolic partial differential equations. II â€“ Rotheâ€™s techniques for 1-D problems. Applied Mathematics and Computation, 2007, 190, 804-832.	2.2	5
138	Limit cycles of non-smooth oscillators. Applied Mathematics and Computation, 2008, 199, 738-747.	2.2	5
139	A simplified two-dimensional model of the melt spinning of semi-crystalline hollow compound fibers. International Journal of Thermal Sciences, 2012, 58, 102-112.	4.9	5
140	Solitary Wave Formation from a Generalized Rosenau Equation. Mathematical Problems in Engineering, 2016, 2016, 1-17.	1.1	5
141	The calculation of the pressure in unsteady flows using a control-volume approach. Journal of Computational Physics, 1981, 41, 211-216.	3.8	4
142	On the calculation of heat, mass and momentum transport in coaxial jets and mixing layers. International Communications in Heat and Mass Transfer, 1985, 12, 323-336.	5.6	4
143	Numerical Simulation of the Flow Field and Fuel Sprays in an IC Engine. , 1987, , .		4
144	Finite element methods for one-dimensional combustion problems. International Journal for Numerical Methods in Fluids, 1990, 11, 893-906.	1.6	4

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145	Dynamics of liquid membranes. I: Non-adaptive finite difference methods. International Journal for Numerical Methods in Fluids, 1991, 12, 859-879.	1.6	4
146	Câ€”jitter effects on mass transfer in annular liquid jets. International Journal of Numerical Methods for Heat and Fluid Flow, 1996, 6, 17-28.	2.8	4
147	On the method of modified equations. IV. Numerical techniques based on the modified equation for the Euler forward difference method. Applied Mathematics and Computation, 1999, 103, 213-240.	2.2	4
148	On the method of modified equations. V: Asymptotic analysis of and direct-correction and asymptotic successive-correction techniques for the implicit midpoint method. Applied Mathematics and Computation, 1999, 103, 241-285.	2.2	4
149	Heat and mass transfer in annular liquid jets: I. Formulation. Applied Mathematics and Computation, 2000, 110, 133-164.	2.2	4
150	Nonlinear dynamics of hollow, compound jets at low Reynolds numbers. International Journal of Engineering Science, 2001, 39, 1289-1314.	5.0	4
151	Stability and nonlinear dynamics of planar film casting processes. International Journal of Engineering Science, 2001, 39, 1949-1961.	5.0	4
152	Equivalence of CO and C1 methods for ODEâ€™s. Applied Mathematics and Computation, 2005, 167, 1331-1338.	2.2	4
153	Convection and radiation effects in hollow, compound optical fibers. International Journal of Thermal Sciences, 2005, 44, 832-850.	4.9	4
154	A non-iterative derivative-free method for nonlinear ordinary differential equations. Applied Mathematics and Computation, 2008, 203, 672-678.	2.2	4
155	On the accuracy of some explicit and implicit methods for the inviscid GRLW equation subject to initial Gaussian conditions. International Journal of Numerical Methods for Heat and Fluid Flow, 2016, 26, 698-721.	2.8	4
156	Kink solutions of the generalized, super-diffusive Burgers equation with memory. Communications in Nonlinear Science and Numerical Simulation, 2019, 76, 25-44.	3.3	4
157	Torsional oscillations in symmetrical structures. Applied Mathematical Modelling, 1984, 8, 433-441.	4.2	3
158	Torsional oscillations in structures subject to ground motion. Applied Mathematical Modelling, 1985, 9, 99-105.	4.2	3
159	Modelling of a Gasoline-Injected Two-Stroke Cycle Engine. , 0, , .		3
160	Incompressible swirling flows. Engineering Computations, 1986, 3, 53-63.	1.4	3
161	Response of annular liquid jets to mass loading. Computational Mechanics, 1991, 9, 1-16.	4.0	3
162	Oscillating annular liquid membranes. Archive of Applied Mechanics, 1992, 62, 43-52.	2.2	3

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163	Intermediate boundary conditions in operator-splitting techniques and linearization methods. Applied Mathematics and Computation, 1998, 94, 113-136.	2.2	3
164	Heat and mass transfer in annular liquid jets: II. g-jitter. Applied Mathematics and Computation, 2000, 110, 165-183.	2.2	3
165	Singularities and stability of inviscid, planar liquid membranes. International Journal of Engineering Science, 2001, 39, 1935-1948.	5.0	3
166	Spatio-temporal patterns in two-dimensional excitable media subject to Robin boundary conditions. Applied Mathematics and Computation, 2003, 146, 55-72.	2.2	3
167	Numerical study of the thermal degradation of isotropic and anisotropic polymeric materials. International Journal of Thermal Sciences, 2005, 44, 735-755.	4.9	3
168	Piecewise-linearized methods for single degree-of-freedom problems. Communications in Nonlinear Science and Numerical Simulation, 2007, 12, 1005-1022.	3.3	3
169	Thermal analysis of bicomponent fibres. Applied Thermal Engineering, 2007, 27, 586-598.	6.0	3
170	A conservative, spatially continuous method of lines for one-dimensional reaction-diffusion equations. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 2650-2678.	2.8	3
171	Shock waves of viscoelastic Burgers equations. International Journal of Engineering Science, 2020, 149, 103226.	5.0	3
172	Stability analysis of a closed thermosyphon model. Applied Mathematical Modelling, 1986, 10, 61-67.	4.2	2
173	Dynamics of liquid membranes. II: Adaptive finite difference methods. International Journal for Numerical Methods in Fluids, 1991, 12, 881-894.	1.6	2
174	Analysis of the formation and interaction of solitons in nonlinear transmission lines by means of a harmonic balance technique. , 0, , .		2
175	A quantum mechanics analogy for the nonlinear Schrödinger equation in the finite line. Computers and Mathematics With Applications, 1994, 28, 3-17.	2.7	2
176	Hopf bifurcation in mass transfer with Sievert's solubility law. Mathematical and Computer Modelling, 1994, 20, 61-72.	2.0	2
177	Irrotational, Annular Liquid Jets. Journal of Mathematical Analysis and Applications, 1996, 202, 538-554.	1.0	2
178	Short Note: A nonstandard finite difference method for the one-dimensional advection equation in cylindrical-polar coordinates. Applied Mathematical Modelling, 1997, 21, 337-338.	4.2	2
179	Mass transfer in annular liquid jets in the presence of liquid flow rate fluctuations. Applied Mathematical Modelling, 1997, 21, 363-369.	4.2	2
180	Upstream boundary conditions for flows in porous channels. Applied Mathematics and Computation, 1998, 93, 149-154.	2.2	2

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181	Leading-order equivalence of two formulations for long, annular liquid membranes. <i>Applied Mathematical Modelling</i> , 1998, 22, 453-457.	4.2	2
182	Reactive-diffusive phenomena in two-dimensional, anisotropic media. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2003, 13, 997-1030.	2.8	2
183	Chapter 7 Global volcanic simulation: Physical modeling, numerics, and computer implementation. <i>Developments in Volcanology</i> , 2006, 8, 311-372.	0.5	2
184	On a model of three-dimensional bursting and its parallel implementation. <i>Computer Physics Communications</i> , 2008, 178, 471-485.	7.5	2
185	Generalized decomposition methods for nonlinear oscillators. <i>Chaos, Solitons and Fractals</i> , 2009, 41, 1078-1084.	5.1	2
186	Effect of the initial conditions on a one-dimensional model of small-amplitude wave propagation in shallow water. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2020, 30, 4979-5014.	2.8	2
187	A heuristic control strategy for non-linear reaction-diffusion equations. <i>International Journal of Control</i> , 1986, 43, 473-483.	1.9	1
188	Bending and torsional resonances in structures subject to ground motion. <i>Applied Mathematical Modelling</i> , 1987, 11, 195-210.	4.2	1
189	Adaptive and nonadaptive Hermitian operator methods for combustion phenomena. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1991, 90, 609-630.	6.6	1
190	On the method of modified equations. VI: Asymptotic analysis of and asymptotic successive-corrections techniques for two-point, boundary-value problems in ODE's. <i>Applied Mathematics and Computation</i> , 1999, 105, 137-171.	2.2	1
191	Heat and mass transfer in annular liquid jets: III. Combustion within the volume enclosed by the jet. <i>Applied Mathematics and Computation</i> , 2000, 110, 185-204.	2.2	1
192	Periodically forced Hopf bifurcation in annular liquid jets with mass transfer. <i>Applied Mathematics and Computation</i> , 2001, 123, 301-342.	2.2	1
193	Complex patterns in three-dimensional excitable media with advection. <i>Chaos, Solitons and Fractals</i> , 2003, 18, 375-384.	5.1	1
194	Robustness of spiral waves in two-dimensional reactive-diffusive media. <i>Applied Mathematics and Computation</i> , 2004, 148, 681-695.	2.2	1
195	Damping characteristics of finite difference methods for one-dimensional reaction-diffusion equations. <i>Applied Mathematics and Computation</i> , 2006, 182, 607-609.	2.2	1
196	Numerical analysis of the effect of small geometrical imperfections on photonic crystal wires. <i>Applied Mathematics and Computation</i> , 2012, 218, 5989-5993.	2.2	1
197	FRW Viscous Cosmological Models of Generalized Chapyglin Gases. <i>International Journal of Theoretical Physics</i> , 2015, 54, 3293-3303.	1.2	1
198	On Viscous Generalized Chapyglin Gases in Non-flat Universes. <i>International Journal of Theoretical Physics</i> , 2016, 55, 41-54.	1.2	1

#	ARTICLE	IF	CITATIONS
199	Analytical and numerical solutions to some one-dimensional relativistic heat equations. Applied Mathematical Modelling, 2017, 46, 181-202.	4.2	1
200	A conservative, piecewise-analytical, transversal method of lines for reaction-diffusion equations. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 4093-4129.	2.8	1
201	A conservative method of lines for advection-reaction-diffusion equations. International Journal of Numerical Methods for Heat and Fluid Flow, 2020, 30, 4735-4763.	2.8	1
202	Heat Transfer Processes in Film Casting of Compressible Polymers. , 2014, , .		1
203	Single- and double-kink solutions of a one-dimensional, viscoelastic generalization of Burgers's equation. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 2862-2878.	2.8	1
204	Formation and Destruction of Vortices in a Motored Four-Stroke Piston-Cylinder Configuration. AIAA Journal, 1984, 22, 948-949.	2.6	0
205	Multicomponent Gas Bubbles. II. Bubble Dynamics. Journal of Non-Equilibrium Thermodynamics, 1988, 13, .	4.2	0
206	Adaptive block-implicit methods for annular liquid jets. Applied Mathematical Modelling, 1992, 16, 464-475.	4.2	0
207	Isothermal mass transfer in annular liquid jets with Sievert's solubility law. Archive of Applied Mechanics, 1995, 65, 260-269.	2.2	0
208	Asymptotic and numerical analysis of vertical, planar liquid sheets subject to London-van der Waals forces. International Journal of Numerical Methods for Heat and Fluid Flow, 1997, 7, 42-62.	2.8	0
209	Interaction of spatial solitons with a localized spatially-modulated medium. Mathematics and Computers in Simulation, 2001, 56, 571-583.	4.4	0
210	S-stability of piecewise-linearized and linearized \hat{I}_1 -methods. Applied Mathematics and Computation, 2002, 132, 617-631.	2.2	0
211	Complex dynamics of planar liquid sheets induced by heat and mass transfer. Applied Mathematics and Computation, 2003, 145, 151-177.	2.2	0
212	Adaptive domain-decomposition methods for two-dimensional, time-dependent reaction-diffusion equations in nongraded meshes. Progress in Computational Fluid Dynamics, 2005, 5, 482.	0.2	0
213	Pattern deformation and annihilation in two-dimensional excitable media in oscillatory domains. Chaos, Solitons and Fractals, 2008, 35, 668-679.	5.1	0
214	On two classes of autonomous third-order nonlinear ordinary differential equations. Applied Mathematics and Computation, 2011, 218, 2011-2024.	2.2	0
215	Smooth, cusped and sharp shock waves in a one-dimensional model of a microfluidic drop ensemble. International Journal of Numerical Methods for Heat and Fluid Flow, 2022, 32, 150-195.	2.8	0
216	Parallel Simulation of Three-Dimensional Bursting with MPI and OpenMP. Lecture Notes in Computer Science, 2006, , 106-113.	1.3	0

#	ARTICLE	IF	CITATIONS
217	Three-dimensional Bursting and Parallel Computing. International Journal for Multiscale Computational Engineering, 2007, 5, 39-46.	1.2	0
218	REACTION-DIFFUSION PHENOMENA WITH RELAXATION. , 2012, , .		0
219	SHELL FORMATION IN DRY SPINNING. , 2012, , .		0
220	Relaxation Phenomena in Reaction-Diffusion Processes. , 2014, , .		0
221	EXACT-FACTORIZATION, COMPACT METHODS FOR MULTIDIMENSIONAL HEAT TRANSFER: APPLICATION TO COMBUSTION. , 1997, , .		0
222	AN ADAPTIVE METHOD FOR HEAT TRANSFER IN ANNULAR LIQUID JETS. , 1997, , .		0